

**AB 987 Application  
for the  
Inglewood Basketball and Event Center**

Prepared for  
**Murphy's Bowl LLC**

**November 2018**

Prepared by

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## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Project Description .....	1
LEED Gold Certification.....	3
Transportation Demand Management Program and Trip Reduction .....	6
Infill Site in Urbanized Area.....	11
Consistency With Sustainable Communities Strategy.....	12
Minimum Investment.....	16
Prevailing Wage and Living Wage Commitments .....	17
Greenhouse Gas Analysis .....	18
Waste Recycling.....	24
Commitments Regarding Pub. Res. Code §21168.6.8(b)(5 – 7).....	26

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**LIST OF TABLES**

<u>Table</u>	<u>Page</u>
Table 1. IBEC Project Land Uses.....	2
Table 2: IBEC TDM Program Vehicle Trip Reduction.....	10
Table 3. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary.....	21
Table 4. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary .....	22

**LIST OF MAPS  
(In Attachment A)**

**Map**

Attachment A-1. Project Area and Project Site Boundary.....	29
Attachment A-2. Proposed Inglewood Basketball and Entertainment Center Project Site Plan .	30

**ATTACHMENTS**

Attachment A	IBEC Project Maps
Attachment B	LEED Scorecards
Attachment C	IBEC TDM Program
Attachment D	IBEC Project Trip Generation Memorandum
Attachment E	ARB Executive Order
Attachment F	Letter from Project Sponsor and City of Inglewood
Attachment G	IBEC Project GHG Analysis

By this application, the project sponsor, Murphy's Bowl LLC, seeks certification of the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project) pursuant to Assembly Bill (AB) 987, which enacted Public Resources Code Section 21168.6.8 et seq. This AB 987 certification process is separate from and in addition to the preparation of the environmental review document for the IBEC Project under the California Environmental Quality Act (CEQA).

## PROJECT DESCRIPTION

### I. INTRODUCTION

The project sponsor proposes the construction of a new basketball and entertainment center and related development in the City of Inglewood, California to serve as the new home of the LA Clippers National Basketball Association (NBA) franchise. The proposed IBEC Project includes a new arena, practice and training facility, and office space for the LA Clippers, as well as ancillary development including a sports medicine clinic and retail, restaurant, community space and hotel uses. The multipurpose arena would be used for LA Clippers home basketball games and as a performance venue that could be configured for other events of various size, including concerts, other sporting events, family shows, conferences, and civic and community events.

The LA Clippers currently play their home basketball games at the Staples Center located in downtown Los Angeles. The LA Clippers team offices are also located in downtown Los Angeles, and the LA Clippers Training Center team practice and training facility is located in the Playa Vista neighborhood of Los Angeles. Upon completion of the IBEC Project, all LA Clippers home basketball games would be played at the new arena, and the team offices and practice and athletic training facilities would relocate to the LA Clippers new home.

It is expected that the LA Clippers would host up to five preseason games, 41 regular season games, and up to a maximum of 16 playoff games each NBA season. Other events such as concerts, family shows, conventions and corporate or civic events, and non-LA Clippers sporting events would take place in the proposed arena throughout the year.

### II. LOCATION

The IBEC Project Site is located in the City of Inglewood, California, entirely within the "project area" as defined in Public Resources Code Section 21168.6.8(a)(5) and shown in **Attachment A-1 Project Area and Project Site Boundary**.

The majority of parcels that comprise the Project Site are currently vacant or undeveloped. Developed parcels within the Project Site include a fast food restaurant, a retail store, a motel, warehouse and light manufacturing facilities, and a municipal groundwater well and related facilities. The "project area" defined in Public Resources Code Section 21168.6.8(a)(5) includes four parcels that are not included in the current IBEC Project Site boundary shown in **Attachment A-1**, but which could be included in the proposed IBEC Project if acquired by the

Project Sponsor. Those parcels are currently developed with residential, hotel, commercial, and self-storage uses.

### III. PROPOSED IBEC PROJECT

The IBEC Project consists of an arena with up to 18,000 fixed seats for LA Clippers basketball games, with capacity to add up to 500 additional temporary seats for other events. The proposed IBEC Project Site is shown in **Attachment A-2 Inglewood Basketball and Entertainment Center Project Site Plan**.

In addition, the proposed IBEC Project includes a new LA Clippers practice and athletic training facility, LA Clippers team offices, a sports medicine clinic, community space, and ancillary retail and dining uses as shown in Table 1. The proposed IBEC Project also includes the option to develop a hotel of up to 150 rooms within the IBEC Project Site.

<b>Land Use</b>	<b>Size</b>
Arena	Up to 18,000 fixed seats with capacity to add 500 temporary seats
LA Clippers Practice and Athletic Training Facility	85,000 SF
LA Clippers Offices	71,000 SF
Sports Medicine Clinic	25,000 SF
Dining and Retail Space	48,000 SF
Community Space	15,000 SF
Hotel	150 rooms

The proposed IBEC Project includes two parking structures and a surface parking lot, with a pedestrian bridge across South Prairie Avenue connecting one of the parking structures to the arena and plaza area. As part of the proposed IBEC Project, an existing municipal groundwater well would be relocated within the Project Site.

### IV. IBEC PROJECT VARIANTS

The proposed IBEC Project includes two variants, collectively referred to in this application as the IBEC Project Variants, to allow for flexibility in the development of the project.

#### A. Alternate Prairie Access Variant

The Alternate Prairie Access Variant contemplates the potential acquisition by the project sponsor of two additional parcels adjacent to the proposed IBEC Project Site within the “project area” defined in Public Resources Code Section 21168.6.8(a)(5), as shown in **Attachment A-1**.

The Alternate Prairie Access Variant would allow for a different configuration for vehicular access from South Prairie Avenue and minor alterations to the design of the main pedestrian plaza and the alignment of the arena structure. The Alternate Prairie Access Variant would only be implemented if the two additional parcels included in this variant are made available for sale by the property owners and acquired by the project sponsor. Eminent domain would not be used in connection with the acquisition of either of the additional two parcels included in the Alternate Prairie Access Variant, or for any property with an existing home or church in connection with the IBEC Project or the IBEC Project Variants.

#### B. West Century Boulevard Pedestrian Bridge Variant

The West Century Boulevard Pedestrian Bridge Variant would allow for the construction of a second pedestrian bridge, across West Century Boulevard, for pedestrian access to the IBEC Project Site from the Los Angeles Sports and Entertainment District located north of West Century Boulevard. The West Century Boulevard Pedestrian Bridge Variant could be incorporated into the development of either the IBEC Project or the Alternate Prairie Access Variant.

Both IBEC Project Variants involve the same program and size of development for the proposed uses as the IBEC Project, and would include the same number of parking and loading spaces, mechanical equipment, general vehicular circulation, transportation demand management program, streetscape improvements, and sustainability features as the IBEC Project. Therefore, this application and the analyses in the appendices generally refer to the IBEC Project, except where the IBEC Project Variants could be expected to produce different results for the analysis of greenhouse gas emissions included below.

### V. CONSTRUCTION

Construction of the IBEC Project is anticipated to begin in 2021 and to last approximately three years, with completion in June 2024.

***Information to show the project will qualify for Leadership in Energy and Environmental Design (LEED) Gold certification for new construction within one year of the completion of the first NBA season consistent with the requirements of Public Resources Code section 2168.6.8(a)(3)(A).***

This section refers only to the proposed IBEC Project since neither the Alternate Prairie Access Variant nor the West Century Boulevard Pedestrian Bridge Variant would make a notable difference to the LEED rating. The IBEC Project is designed to reduce energy and water use, promote resource conservation through redevelopment and the sourcing of local construction materials, and to create healthier indoor environments. The IBEC Project would meet or exceed current uniform codes designed to achieve a LEED Gold rating, as shown in **Attachment B LEED Scorecards**. The applicant will apply for LEED certification of the buildings and

accompanying development in the Building Design + Construction (BD+C) category, and would adopt a LEED campus approach in order to capture site-wide strategies such as those related to storm water and open space. LEED certification for the main arena structure will be sought under LEED BD+C New Construction and Major Renovation, certification for the other IBEC Project plaza buildings would be sought under LEED BD+C Core + Shell, and certification for the hotel would be sought under LEED BD+C Hospitality. Measures to achieve certification in these areas include energy efficiency, water conservation, low-impact development, and other green-building practices. These measures would be incorporated into the final design of each component to achieve sufficient points for LEED Gold certification. Two concept phase LEED scorecards are included with this application in **Attachment B**; the main arena scorecard and the Core + Shell scorecard associated with the plaza buildings.

The LEED rating system offers four certification levels for new construction that correspond to the number of credits accrued in categories for location and transportation, sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovation, and regional priority (USGBC 2015). The number of points that the proposed IBEC Project earns determines the level of LEED certification that the IBEC Project will receive:

- LEED Certified™: 40-49 points earned
- LEED Silver®: 50-59 points earned
- LEED Gold®: 60-79 points earned
- LEED Platinum®: 80+ points earned

LEED provides a level of flexibility for projects to choose the exact credits and project features. At the time of this application the IBEC Project design is in the conceptual stage, so the exact LEED credits and project features that would be selected to achieve LEED Gold certification (i.e., 60-79 LEED points) have not yet been finalized. However, some of the design features that would help the IBEC Project achieve LEED Gold certification include:

- *Location and Transportation.* The IBEC Project would be eligible for credits in the location and transportation category in the following areas: (1) the Project Site is currently developed with access to high quality transit, (2) the IBEC Project would include bicycle and electric vehicle charging facilities, and (3) the IBEC Project would have a reduced parking footprint.

The IBEC Project would be eligible to achieve the Access to Quality Transit credit because local transit service to the project area would be provided by the Los Angeles Metropolitan Transportation Authority (Metro) in the form of future below- and at-grade light rail on the Metro Crenshaw/LAX Line, which is currently under construction and expected to be complete in 2019, and above-ground route bus services. The IBEC Project would provide shuttle pick-up and drop-off service at the following three Metro rail stations: the existing Metro Green Line - Hawthorne Station, and the future Metro Crenshaw/LAX Line – Florence/La Brea Station and Metro Crenshaw/LAX Line – AMC

96<sup>th</sup> Street Stations. In addition, the IBEC Project is located within ¼ mile of 8 existing Metro bus stops along the following four Metro routes, 117, 211, 212, and 312.

The IBEC Project would also provide electric vehicle charging stations at 8% of parking spaces, which would exceed the requirements for the IBEC Project to be eligible for the Green Vehicles credit.

- *Sustainable Sites.* The IBEC Project would be eligible for credits for rainwater management, open space, heat island reduction, and light pollution reduction. Credits for open space are based on the percentage of permeable surfaces, including roof-top gardens.
- *Water Efficiency.* The IBEC Project would be eligible for credits for the use of ultra-low flow fixtures in restrooms such as low flow faucets with aerators, dual flush toilets, and waterless urinals. These features would reduce indoor water use by a minimum of 40 percent and would be required to meet Universal Plumbing Code standards. The IBEC Project would also be eligible for credits for using 100% recycled water to service project landscaping designed for low water usage.
- *Energy and Atmosphere.* The IBEC Project would be eligible for credits for optimized performance and renewable energy production. The IBEC Project will provide photovoltaic panels on the main arena building roof and fund the purchase of carbon offsets. The IBEC Project will also implement the following energy efficiency measures: Title 24 compliance; use of 100% light emitting diode (LED) lighting indoors and outdoors throughout the site; and implementation of high efficiency HVAC-related strategies.
- *Materials and Resources.* The IBEC Project would be eligible for credits for Construction and Demolition Waste Management and sourcing of raw materials. The IBEC Project would recycle at least 75 percent of demolition materials, which exceeds the City of Inglewood's target of 50 percent demolition waste recycling and is in accordance with State diversion targets that aim to divert a minimum of 75 percent of construction and demolition materials from landfill disposal.
- *Indoor Environmental Quality.* The IBEC Project would be eligible for credits for enhanced indoor and outdoor air quality, and would meet American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 62.1:2010 indoor air quality requirements and ASHRAE 55 thermal comfort requirements.
- *Innovation.* The IBEC Project would be eligible for innovation credits. Innovative strategies include the following: implementation of the FanFirst/Occupant Comfort Survey,<sup>1</sup> green education program, LEED Operations + Management (O+M) Starter Kit

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<sup>1</sup> FanFirst Connected Comfort utilizes real time crowdsourced feedback during an event to adjust temperature in the arena bowl to increase fan comfort and reduce over cooling/wasted energy.

(Pest Management and Green Cleaning Program), and the purchasing of 100% LED lamps.

The project sponsor will seek LEED Gold certification for all buildings constructed as part of the IBEC Project within one year of the completion of the first NBA season at the IBEC Project arena, anticipated to occur in the summer of 2025.

***Information to show that the transportation demand management program, upon full implementation, will achieve and maintain a 15-percent reduction in the number of vehicle trips, collectively, by attendees, employees, visitors, and customers as compared to operations absent the transportation demand management program.***

Under the requirements of AB 987, the IBEC Project must include implementation of a transportation demand management that will achieve and maintain a 15% reduction in the number of vehicle trips, collectively, by attendees, employees, visitors, and customers as compared to trips generated by IBEC Project operations absent the transportation demand management program. The measures included in the transportation demand management program must be implemented as soon as feasible, so that a 7.5% reduction in vehicle trips is achieved and maintained by the end of the first NBA season during which an NBA team has played at the IBEC Project arena, anticipated to occur by June 2025.

AB 987 further requires that the transportation demand management program for the IBEC Project consist of a specific program of strategies, incentives, and tools that includes, but is not limited to, the following:

- Provision of shuttles, charter buses, or similar services from a major transit stop to serve arena events.
- Provision of onsite electric vehicle charging stations in excess of applicable requirements.
- Provision of dedicated parking for car-share or zero-emission vehicles, or both types of vehicle, in excess of applicable requirements.
- Provision of bicycle parking in excess of applicable requirements.
- Inclusion of a transit facility with area dedicated to shuttle bus staging, ride share, bicycle parking, and other modalities intended to reduce the use of single occupant vehicles.

The IBEC Transportation Demand Management Program (IBEC TDM Program) has been designed to achieve the required 15% reduction in vehicle trips on an annual basis as compared to IBEC Project operations absent the IBEC TDM Program, as further described in **Attachment C IBEC TDM Program**. The measures and strategies included in the IBEC TDM Program are subject to further refinement and revision through the CEQA environmental review process. The final IBEC TDM Program will be coordinated with the City of Inglewood at the time of project



approval, with achievement of the 15% reduction in vehicle trips verified to the City of Inglewood and Office of Planning and Research no later than January 1, 2030. The project sponsor will implement the measures included in the final IBEC TDM Program as soon as feasible, and therefore will exceed the required 7.5% reduction in vehicle trips by the end of the first NBA season.

### **Existing and Planned Transit Network**

The IBEC Project Site is located along two multimodal corridors, W. Century Blvd. and S. Prairie Ave., and includes access to transit. In particular, multimodal access to the Project Site is available in the form of local bus service, automobile access, and a pedestrian network comprised of continuous sidewalks, curb ramps, and painted crosswalks at area intersections. Local bus service is currently provided by the Metro at 8 Metro stops within a ¼-mile of the Project Site along the following four Metro routes: 117, 211, 212, and 312. The Bus Rapid Transit (BRT) Line 740 Hawthorne/Century transit stop is located approximately 0.5 miles west of the Project Site.

The existing and planned fixed guideway network in the City of Inglewood includes several rail stops that would provide access to the IBEC Project. Metro's existing and planned fixed guideway network includes several rail stops that would provide access to the proposed IBEC Project. The Project Site is located approximately 0.8 miles from the existing Metro Green Line Hawthorne Station. Future transportation network improvement includes the LA Metro Crenshaw/LAX project. The LA Metro Crenshaw/LAX project is an 8.5-mile light rail line between the Metro Green Line and Exposition Line serving the cities of Los Angeles, Inglewood and El Segundo and is planned to be open in 2019. Three stations associated with the Metro Crenshaw/LAX Line are planned in the City of Inglewood: the Downtown Inglewood Station located approximately 1.6 miles to the north of the IBEC Project Site, the Westchester/Veterans Station located approximately 2 miles northwest of the Project Site, and the Fairview Heights station located approximately 2 miles north of the Project Site. Once completed, the Crenshaw/LAX Line and the existing Green Line (with operational updates) will both stop at the future Airport Metro connector (AMC) 96th Street Transit Station which is located approximately 2.0 miles west of the Project Site. This station is also planned to connect to the proposed future automated people mover (APM) which is currently under the final design and construction phase and will be operated by the Los Angeles World Airports (LAWA). The APM and the AMC 96th Street Transit Station are anticipated to open in 2023, before the IBEC Project becomes operational.

### **IBEC TDM Program**

This section includes a summary of the IBEC TDM Program measures and the resulting estimated trip reduction. Trip generation estimates for the proposed IBEC Project were

calculated to demonstrate the effectiveness of the IBEC TDM Program, as detailed in **Attachment D IBEC Project Trip Generation Memorandum.**<sup>2</sup>

The IBEC TDM Program includes strategies, incentives and tools that provide opportunities for event attendees and employees to reduce single-occupancy vehicle (SOV) trips and use other modes of transportation besides automobile to travel to work and to basketball games and other events hosted at the IBEC Project arena.

The IBEC TDM Program targets a reduction in SOV trips by encouraging event attendees and proposed IBEC Project employees to select other modes of transportation, including public transportation, walking, bicycling, car-share, carpooling and vanpooling, and park-n-ride services. As described in more detail in **Attachment D**, the IBEC TDM Program is designed to achieve a 15% reduction in vehicle trips through implementation of a combination of transportation demand management measures and strategies that may include the following:

***TDM 1 - Encourage Alternative Modes of Transportation (Rail, Public Bus, and Vanpool)***

Provide monetary incentives and bus stop improvements near the Project Site.

***TDM 2 - Event-day Dedicated Shuttle Services***

Provide connectivity to the existing and future Metro Rail Stations and take advantage of the transportation resources in the area. Ensure a sufficient number of shuttles will be provided for successful and convenient connectivity, with short wait times.

***TDM 3 – Encourage Carpools and Zero-Emission Vehicles***

Provide several incentives that would encourage carpooling and zero-emission vehicles as a means for sharing access to and from the Project Site.

***TDM 4 – Encourage Active Transportation***

Include features which would enhance the access for bicyclists and pedestrians.

***TDM 5 – Employee Vanpool Program***

Provide an employee vanpool program that would accommodate 5% of the employees in conjunction with TDM 1.

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<sup>2</sup> Given that both of the IBEC Project Variants would have the same program and size of development, anticipated events, and employment as the IBEC Project, the trip generation and travel demand would also be the same. Therefore, although the trip generation memo and this section only specifically address the IBEC Project, the analysis and conclusions would remain the same for either IBEC Project Variant.

***TDM 6 – Park-n-Ride Program***

Provide a regional park-n-ride program that would utilize charter coach buses.

***TDM 7 - Information Services***

Provide a number of services which would inform the public about activities at the IBEC.

***TDM 8 – Reduce On-Site Parking Demand***

Include features that reduce on-site parking demand.

***TDM 9 – Event-Day Local Microtransit Service***

Provide a local minibus/microtransit service for event days that would accommodate up to 66 employees and 180 attendees.

**IBEC TDM Program Vehicle Trip Reduction**

The IBEC Project Trip Generation Memorandum included as **Attachment D** to this application provides a detailed analysis that demonstrates the reduction in vehicle trips produced by the IBEC TDM Program. The analysis is based on estimates of vehicle trips for LA Clippers home basketball games and other non-NBA basketball game events to be hosted at the IBEC Project, as well as LA Clippers employees who will use the LA Clippers practice and training facility and the LA Clippers offices, and vehicle trips by employees and patrons of the sports medicine clinic, retail, restaurant, community space and hotel uses included in the IBEC Project.

The IBEC Project Trip Generation Memorandum includes an evaluation of two scenarios, the IBEC Project Without IBEC TDM Program, and the IBEC Project With IBEC TDM Program. Vehicle trip generation for the IBEC Project was estimated based on maximum anticipated event attendance levels to provide a conservative estimate of total trips.

Comparison of the IBEC Project With TDM Program scenario to the IBEC Project Without TDM Program scenario demonstrates that implementation of the IBEC TDM Program will achieve an approximately 15.151% reduction in vehicle trips.

As shown in Table 2, the IBEC Project with implementation of the IBEC TDM Program would generate a total of approximately 2,972,568 vehicle trips on an annual basis, representing a reduction of approximately 530,783 trips on an annual basis compared to the approximately 3,503,351 total annual vehicle trips generated by the IBEC Project without the IBEC TDM Program.

<b>Table 2: IBEC TDM Program Vehicle Trip Reduction</b>					
<b>Scenario</b>	<b>Estimated Annual Vehicle Trips</b>				<b>Total</b>
	<b>Weekday</b>		<b>Weekend</b>		
	<b>Event Days</b>	<b>Non-Event Days</b>	<b>Event Days</b>	<b>Non-Event Days</b>	
IBEC Project Without IBEC TDM Program	1,845,166	595,113	1,004,792	58,280	3,503,351
IBEC Project With IBEC TDM Program	1,537,765	568,615	810,430	55,758	2,972,568
IBEC TDM Program Reduction	-307,401	-26,498	-194,362	-2,522	-530,783
<b>% Vehicle Trips Reduced</b>					<b>-15.151%</b>

Source: AECOM 2018

The analysis included in this application demonstrates that implementation of the IBEC TDM Program would meet the vehicle trip reduction requirements of AB 987. Upon implementation of the IBEC TDM Program, the IBEC Project would generate at least 15 percent fewer annual vehicle trips when measured against the IBEC Project absent a transportation demand management program. The measures in the final IBEC TDM Program would be implemented upon commencement of IBEC Project operations, exceeding the requirement to achieve a 7.5% reduction in vehicle trips by the end of the first NBA season.

***Information to show the project is located on an infill site and will satisfy the requirements of Public Resources Code section 21168.6.8(a)(3)(C).***

According to Public Resources Code 21061.3, an "infill site" is defined as a site in an urbanized area that meets either of the following criteria:

- (a) The site has not been previously developed for urban uses and both of the following apply:
  - (1) the site is immediately adjacent to parcels that are developed with qualified urban uses, or at least 75 percent of the perimeter of the site adjoins parcels that are developed with qualified urban uses, and the remaining 25 percent of the site adjoins parcels that have previously been developed for qualified urban uses; and
  - (2) No parcel within the site has been created within the past 10 years unless the parcel was created as a result of the plan of a redevelopment agency.
- (b) The site has been previously developed for qualified urban uses.

Public Resources Code section 21072 defines a "qualified urban use" as "any residential, commercial, public institutional, transit or transportation passenger facility, or retail use, or any combination of those uses."

The proposed IBEC Project meets the criteria for an "infill site" as defined in Public Resources Code section 21061.3(b), since all parcels within the Project Site either currently are or have previously been developed for qualified urban uses. The six currently-developed parcels within the IBEC Project Site that would be redeveloped include a fast-food restaurant, a retail store, a motel, warehouse and light manufacturing facilities, and a municipal groundwater well and related facilities. The Alternate Prairie Access Variant would include two additional parcels that currently are developed with a single-family home and a three-unit residential use, if made available for sale by the property owners and acquired by the project sponsor, resulting in a total of up to eight buildings that may be removed. Approximately 85% of the Project Site is vacant. However, all of the currently vacant parcels have previously been developed with qualified urban uses, including commercial, residential and mixed commercial/residential uses.

An urbanized area, according to Public Resources Code 21071, can be defined as an incorporated city that has a population of at least 100,000 persons. The IBEC Project Site is located in the City of Inglewood, which is an incorporated City with a population of approximately 110,000 people.

***Information to show the project is consistent with the general use designation, density, building intensity, and applicable policies specified for the project area in either a sustainable communities strategy or an alternative planning strategy for which the State Air Resources Board, pursuant to subparagraph (H) of paragraph (2) of subdivision (b) of Section 65080 of the Government Code, has accepted a metropolitan planning organization's determination that the sustainable communities strategy or the alternative planning strategy would, if implemented, achieve the greenhouse gas emission reduction targets.***

California Senate Bill (SB) 375 was passed by the State Assembly on August 25, 2008, and signed into law by the Governor on September 30, 2008. This legislation links regional planning for housing and transportation with the greenhouse gas (GHG) reduction goals outlined in California Assembly Bill (AB) 32. Under SB 375, each Metropolitan Planning Organization (MPO) is required to adopt a Sustainable Community Strategy (SCS) to encourage compact development that reduces passenger vehicle miles traveled (VMT) and trips so that the region will meet a target, created by the California Air Resources Board (CARB), for reducing GHG emissions.

The proposed IBEC Project is within the jurisdiction of the Southern California Association of Governments (SCAG). On April 4, 2012, SCAG's Regional Council adopted the 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS): Towards a Sustainable Future (2012 RTP/SCS). On April 7, 2016, SCAG's Regional Council adopted the 2016- 2040 RTP/SCS: A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life (2016 RTP/SCS). The 2016 RTP/SCS reaffirms the land use policies that were incorporated into the 2012 RTP/SCS. On June 28, 2016, CARB accepted SCAG's quantification of GHG emission reductions from the 2016 RTP/SCS and the determination that the 2016 RTP/SCS would, if implemented, achieve the 2020 and 2035 GHG emission reduction targets established by CARB.<sup>3</sup>

The purpose of the 2016 RTP/SCS is to achieve its assigned regional per capita GHG reduction targets for the passenger vehicle and light-duty truck sector established by CARB pursuant to SB 375 through strategies for integrating transportation and land use planning, and an overall land use pattern that encourages growth in infill locations near bus corridors and other transit infrastructure<sup>4</sup>. The land use pattern supports and complements the proposed transportation network that emphasizes system preservation, active transportation, and transportation demand management (TDM) measures.

The 2012 RTP/SCS and the 2016 RTP/SCS include strategies and principles that are relevant to the IBEC Project, such as:

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<sup>3</sup> California Air Resources Board (CARB), Executive Order G-16-066, Southern California Association of Governments' (SCAG) 2016 Sustainable Communities Strategy (SCS) ARB Acceptance of GHG Quantification Determination, available at: [http://www.arb.ca.gov/cc/sb375/scag\\_executive\\_order\\_g\\_16\\_066.pdf](http://www.arb.ca.gov/cc/sb375/scag_executive_order_g_16_066.pdf). (CARB 2016). (Attachment E).

<sup>4</sup> See, for example, 2016 RTP/SCS Chapter 1, page 13, and Chapter 5, pages 68 and following.

- Support projects, programs, policies and regulations that encourage the development of complete communities, which includes a diversity of housing choices and educational opportunities, jobs for a variety of skills and education, recreation and culture, and a full-range of shopping, entertainment and services all within a relatively short distance;<sup>5</sup>
- Encourage compact growth in areas accessible to transit;<sup>6</sup>
- Identify regional strategic areas for infill and investment;<sup>7</sup>
- Plan for jobs closer to transit and housing, in sustainable transit-ready infill areas that can be reached by planned transit service and can readily access existing infrastructure;<sup>8</sup>
- Develop strategies focused on high-quality places, compact infill development, and more housing and transportation choices;<sup>9</sup>
- Encourage development in High Quality Transit Areas (HQTAs) and along "Livable Corridors";<sup>10</sup>
- Develop nodes on a corridor - intensify nodes along corridors with people-scaled, mixed-use developments;<sup>11</sup>
- Promote the use of TDM programs;<sup>12</sup> and
- Invest in biking and walking infrastructure to improve active transportation options and transit access.<sup>13</sup>

The IBEC Project is consistent with and furthers these strategies and principles as follows:

Consistent with the RTP/SCS, the IBEC Project would be infill development, as explained above, and proposes a dense mix of recreation and entertainment, office, retail, restaurant, community, and hotel uses consistent with compact growth, on parcels of infill urban land accessible to and served by public transit and near existing and planned housing. The IBEC Project has been designed with the complete communities concept in mind by integrating land use planning, transportation planning, and community design together, and by providing construction and permanent jobs for a variety of skills and education, recreational and cultural events, and a full-range of shopping, entertainment and services all within a relatively short distance.

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<sup>5</sup> 2012 RTP/SCS p. 153.

<sup>6</sup> See, e.g., 2012 RTP/SCS p. 121; 2016 RTP/SCS p. 2.

<sup>7</sup> 2016 RTP/SCS pp. 7-8.

<sup>8</sup> 2012 RTP/SCS p. 154.

<sup>9</sup> 2012 RTP/SCS p. 113.

<sup>10</sup> See, e.g., 2012 RTP/SCS p. 8; 2016 RTP/SCS pp. 8, 74, 78, 80, 97, 165.

<sup>11</sup> 2012 RTP/SCS p. 121; 2016 RTP/SCS p. 75.

<sup>12</sup> 2012 RTP/SCS pp. 15, 121, 141, 151; 2016 RTP/SCS p. 65.

<sup>13</sup> 2012 RTP/SCS pp. 53, 155.

The IBEC Project meets the HQTAs criteria of being within one half mile of a fixed guideway transit stop or a bus transit corridor where buses pick up passengers at a frequency of every 15 minutes or less during peak commuting hours.<sup>14</sup> The Project Site is adjacent to two (the 117 and 212/312 lines, which stop at the intersection of West Century Boulevard and South Prairie Avenue) and within one half mile of a third (the combined 740/40) Metro bus routes that are corridors that pick up passengers at intervals of 15 minute or less during peak commute hours. A fixed light rail system with a station adjacent to the IBEC Project Site is currently in the planning phase and, if approved, would be a major transit node to service the Project Site and surrounding uses.

In addition to the Project Site's proximity to the Metro bus routes and potential light rail system described above, it is less than one mile from the Los Angeles County Metropolitan Transportation Authority (Metro) Green Line's Hawthorne/Lennox Station. The Metro Green Line provides light rail service between Redondo Beach and Norwalk, and also serves the communities of El Segundo, Hawthorne, South Los Angeles, Lynwood, and Downey.

Currently under construction, the Metro Crenshaw/LAX Line will provide a new light rail connection between the existing Metro Exposition Line and the Metro Green Line. The Crenshaw/LAX Line will serve the cities of Los Angeles, Inglewood, Hawthorne, and El Segundo, and portions of unincorporated Los Angeles County. The Crenshaw/LAX Line will also provide light rail service to LAX. Three stations associated with the Metro Crenshaw/LAX Line are planned in the City of Inglewood: the Downtown Inglewood Station located approximately 1.6 miles to the north of the Project Site, the Westchester/Veterans Station located approximately 2 miles northwest of the Project Site, and the Fairview Heights station located approximately 2 miles north of the Project Site. Construction of the Metro Crenshaw/LAX Line is estimated to be completed in 2019, before construction of the proposed IBEC Project would begin.

In addition, the IBEC Project will provide a substantial number of jobs near transit, at an infill location along a Livable Corridor. Livable Corridors are defined as "arterial roadways where jurisdictions may plan for a combination of the following elements: high-quality bus frequency; higher density residential and employment at key intersections; and increased active transportation through dedicated bikeways."<sup>15</sup>

The IBEC Project would have a robust IBEC TDM Program to ensure that employees, attendees, customers, and visitors of the IBEC Project would have access to and would utilize alternative forms of transportation. The IBEC TDM Program would include monetary incentives to encourage the use of alternative transportation modes, event-day shuttles to Metro rail stations, an employee vanpool program, a regional park-n-ride program utilizing charter coach buses for NBA games and other large events, event day local minibus/microtransit service, and staging and parking areas for charter coach buses and minibus/microtransit vehicles, among

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<sup>14</sup> 2016 RTP/SCS p. 8.

<sup>15</sup> 2016 RTP/SCS p. 8.



other measures. As part of the IBEC TDM Program, the IBEC Project also would provide bicycle parking spaces, dedicated spaces for car share or zero emission vehicles, and electric vehicle charging stations in excess of the requirements under Inglewood Municipal Code Section 12-42.1 to encourage non-polluting transportation alternatives.

***Information to show the project will result in a minimum investment of one hundred million dollars (\$100,000,000) in California upon completion of construction.***

The proposed IBEC Project is a major arena development project with additional ancillary uses within the approximately 35-acre project area. It includes the purchase, excavation, grading, and geotechnical improvement of the Project Site, and the design and construction of the IBEC Project. The IBEC Project would consist of an arena designed to host the LA Clippers basketball team with up to 18,000 fixed seats for National Basketball Association (NBA) games. The arena could also be configured with up to 500 additional seats for events such as family shows, concerts, conventions and corporate events, and non-LA Clippers sporting events. In addition, the IBEC Project would include an approximately 85,000-square foot team practice and athletic training facility; approximately 71,000 square feet of LA Clippers team office space; an approximately 25,000-square foot sports medicine clinic; approximately 63,000 square feet of ancillary retail, restaurant, community space and similar uses; an outdoor plaza including landscaped areas, outdoor basketball courts, and outdoor community gathering space; two parking structures and a surface parking lot; and an approximately 150-room hotel. Anticipated construction duration would be 36 months. The IBEC Project costs would far exceed the \$100 million minimum investment requirement of AB 987.

***Information establishing that the prevailing wage, living wage, and skilled and trained workforce requirements of Public Resources Code section 21168.6.8(b)(2) will be satisfied.***

The IBEC Project would create high-waged, highly skilled jobs that pay prevailing wages and living wages, and would employ a skilled and trained workforce, as defined in Public Contract Code section 2601(d), and will comply with all applicable provisions of Public Resources Code section 21168.6.8. As defined in Section 21168.6.8(b)(2), "jobs that pay prevailing wages" means that all construction workers employed in the execution of the IBEC Project would receive at least the general prevailing rate of per diem wages for the type of work and geographic area, as determined by the Director of Industrial Relations pursuant to Sections 1773 and 1773.9 of the Labor Code. The Applicant has already entered into a project labor agreement (PLA) to fulfill the requirements of Section 21168.6.8(b)(2), including the skilled and trained workforce requirements.

***Information establishing that the project does not result in any net additional emission of greenhouse gases, including greenhouse gas emissions from employee transportation, as determined by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code.***

The methodology applied to the proposed IBEC Project and IBEC Project Variants for this AB 987 application is consistent with AB 900 methodology developed by the California Air Resources Board. The GHG analysis quantified emissions anticipated from the IBEC Project and IBEC Project Variants including project construction emissions and operational emissions and compared them against existing baseline emissions in order to determine the IBEC Project's net new emissions. The full details of the analysis are provided in **Attachment G IBEC Project GHG Analysis**.

To determine the existing 2018 baseline, the GHG analysis quantified emissions for existing buildings on the Project Site that would be removed and for existing uses that would relocate to the IBEC Project Site, including the existing LA Clippers games at the Staples Center, the existing LA Clippers Team Offices in downtown Los Angeles, the existing LA Clippers Training Center in the Playa Vista neighborhood of Los Angeles, and existing non-NBA events that would occur at the IBEC Project arena instead of at various other venues throughout the Los Angeles region (i.e., market-shifted non-NBA events). This analysis assumes that after the LA Clippers Team Offices relocate to the IBEC Project Site, the vacated existing office space would be used by a different, unknown office tenant in the future.

Construction emissions for the proposed IBEC Project and IBEC Project Variants were estimated for all construction years from 2021 through 2024. Construction activities would generate GHG emissions associated with heavy-duty construction equipment, material-hauling trucks, and construction-worker vehicles.

The operational life of the IBEC Project is assumed to be 30 years and operational emissions were estimated from July 1, 2024 (the anticipated beginning of operations) through 2054. Operational emission sources include on-road motor vehicles (mobile), energy (electricity and natural gas), water and wastewater, solid waste, area, and stationary (emergency generators). Mobile source emissions would be generated by vehicle trips from attendees, customers and employees. Energy sources would include both electricity and natural gas consumption. Indirect emissions sources include emissions from electricity generation at off-site utility providers.

Consumption of water and generation of wastewater would also result in indirect GHG emissions because of the electricity consumption associated with the off-site conveyance, distribution, and treatment of water and wastewater. Solid waste disposal from operation of the IBEC Project and IBEC Project Variants would result in indirect, off-site GHG emissions. Area source emissions would be associated with activities such as maintenance of landscaping and grounds. Operation of the emergency generators for testing and maintenance would be a source of direct stationary source emissions.

Operational emissions associated with the IBEC Project, anticipated to occur from July 1, 2024 through 2054, were estimated based on three operational scenarios: (1) IBEC Project without GHG reduction measures, representing IBEC Project operations absent implementation of any GHG reduction measures beyond current building code requirements (e.g., 2019 Title 24 standards); (2) IBEC Project with local, direct GHG reduction measures, demonstrating the reductions in GHG emissions achieved through local, direct measures as defined by AB 987, including the implementation of the IBEC TDM Program and 50% of the reductions attributable to project design features and measures necessary to meet the LEED Gold certification requirement; and (3) IBEC Project with GHG reduction measures, calculating the total net new emissions resulting from the project with implementation of the IBEC TDM Program and 100% of the reductions resulting from the project design features and measures included in the LEED Gold certification strategy.

Design features within the IBEC Project's LEED Gold strategy would include sustainable design measures, such as a 700-kilowatt (kW) solar photo-voltaic (PV) system, generating approximately 1,085,000 kW-hours of clean energy annually. The project design will also comply with CalGreen Code Voluntary Tier 1, which is estimated to achieve a 10 percent reduction in energy consumption over Title 24 2019 standards based on the preliminary design of the IBEC Project.

GHG emissions from construction of the IBEC Project and IBEC Project Variants include emissions from off-road equipment and construction trips. Emissions were estimated for each year that construction would occur based on emission factors for equipment fleet averages specific to that calendar year. Advancements in engine technology, retrofits, and turnover in the equipment fleet are anticipated to result in lower levels of emissions over time as stricter standards are required.

The trip generation analysis assumed two project conditions, annual trip rates for the IBEC Project Without IBEC TDM Program and annual trip rates for the IBEC Project With IBEC TDM Program. The calculations are included in **Attachment G**. The IBEC TDM Program would result in vehicle trip reductions from use of other modes of transportation, such as transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, charter coach buses, walking, and bicycling. Mobile source emissions for the With IBEC TDM Program scenario also include emissions from IBEC TDM Program measures, such as transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, and charter coach buses.<sup>16</sup>

The results of the GHG analysis indicate that the IBEC Project and the IBEC Project Variants under the IBEC Project without GHG reduction measures would result in net additional GHG emissions compared to the baseline. Half or 50 percent of these net new GHG emissions must

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<sup>16</sup> Mobile source emissions for the Without IBEC TDM Program scenario include employee shuttle trips from off-site parking lots, as off-site employee parking would be used regardless of implementation of the IBEC TDM Program, but do not include trips from other IBEC TDM Program measures.

be reduced by local, direct measures including the IBEC TDM Program and half of the reductions achieved through project design features used to meet the LEED Gold certification requirement. Compliance with AB 987 is demonstrated by Table 3 for the proposed IBEC Project and Table 4 for the IBEC Project Variants. Tables 3 and 4 summarize the GHG emissions and identify the reductions that would be achieved through the local, direct measures implemented for the IBEC Project and IBEC Project Variants, the remaining 50 percent of reductions achieved through project design features used to meet the LEED Gold certification requirement, and the remaining emissions reductions needed to achieve net zero GHG emissions, which could be achieved through the purchase of offset credits and/or through GHG reductions that would result from measures identified in order to satisfy AB 987's separate NOx and PM<sub>2.5</sub> reduction requirements (i.e., GHG reduction co-benefits).<sup>17</sup>

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<sup>17</sup> AB 987 requires that, as a condition of project approval, the IBEC project must achieve reductions of 400 tons of oxides of nitrogen (NOx) and 10 tons of particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>) over 10 years following the commencement of construction of the project. Of these amounts, 130 tons of NOx and 3 tons of PM<sub>2.5</sub> must be achieved within the first year following commencement of construction. If the project sponsor can demonstrate and verify to the South Coast Air Quality Management District that it has invested at least \$30 million dollars toward achieve those air pollutant reductions, only one-half of these reduction amounts must be achieved.

**Table 3. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary**

<b>IBEC Project Condition and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Net New Emissions</b>
Total Net New Emissions IBEC Project Without GHG Reduction Measures	101,623	100%
Required GHG Reductions from Local, Direct Measures	50,812	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local, Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	53%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	57%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	61%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NOx and PM2.5 Reduction Measures	39,466	39%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO<sub>2</sub>e = metric tons carbon dioxide equivalents

**Table 4. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary**

<b>Project Condition and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Net New Emissions</b>
Total Net New Emissions IBEC Project Variants Without GHG Reduction Measures	99,644	100%
Required GHG Reductions from Local, Direct Measures	49,822	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local, Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	54%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	58%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	62%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NOx and PM <sub>2.5</sub> Reduction Measures	37,486	38%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO<sub>2</sub>e = metric tons carbon dioxide equivalents

The tables confirm that the IBEC Project and the IBEC Project Variants would meet the AB 987 local, direct measures requirement because at least half of the net new emissions would be offset by local, direct measures. The remaining net new emissions of 39,466MT CO<sub>2</sub>e for the IBEC Project and 37,486 MT CO<sub>2</sub>e for the IBEC Project Variants after implementation of the local, direct measures and the rest of the LEED Gold project design features and measures would need to be offset by the purchase of carbon credits, additional on- or off-site emissions reduction measures, and/or through GHG reduction co-benefits of NOx and PM<sub>2.5</sub> reduction measures.

As required by AB 987, the proposed IBEC Project cannot result in any net new emission of greenhouse gases, including greenhouse gas emissions from employee transportation. This must be determined by the Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code. Measures for offsetting the net increase in GHG emissions include project design features incorporated to obtain LEED Gold certification, the IBEC TDM Program, potential GHG reduction co-benefits from NOx and PM<sub>2.5</sub> reduction measures, and carbon credit offsets. The project sponsor has committed to the LEED Gold and IBEC TDM Program, which are required under AB 987, and commits to obtaining sufficient additional GHG emission reductions through purchase of carbon offset credits and/or co-



benefits from NO<sub>x</sub> and PM<sub>2.5</sub> reduction measures to ensure there would be no net additional GHG emissions from the IBEC Project or IBEC Project Variants.

If using offset credits, the project sponsor will, to the extent feasible, place the highest priority on the purchase of offset credits that produce emission reduction within the City of Inglewood or the boundaries of the South Coast Air Quality Management District. As shown in Tables 3 and 4 above, the reductions estimated from local, direct GHG reduction measures for the IBEC Project and IBEC Project Variants exceed the requirement under AB 987 to obtain at least 50 percent of GHG emission reductions through such local, direct measures. Therefore, it is anticipated that offset credits would be used to achieve less than 50 percent of the overall GHG emission reductions necessary to meet the net zero GHG emissions requirement.

Carbon credits will be verified by a third party accredited by ARB, such as the American Carbon Registry, Climate Action Reserve, and Verified Carbon Standard. Carbon credits shall be purchased at a net present value although the contracts could propose acquiring the credits in advance of the emission-generating activities to be offset. Contracts to purchase carbon credits for construction emissions will be entered into prior to the issuance of grading permits, and contracts to purchase carbon credits for operational emissions will be entered into prior to the issuance of the final certificate of occupancy for the IBEC Project arena. Copies of the contract(s) shall be provided to ARB and the Governor's office to verify that construction and operational emissions have been offset.

***Information establishing that the project will comply with the requirements for commercial and organic waste recycling in Chapters 12.8 (commencing with Public Resources Code section 42649) and 12.9 (commencing with Public Resources Code Section 42649.8), as applicable.***

California has had statutory and regulatory requirements related to solid waste recycling for well over 10 years requiring local governments to reduce solid waste in landfills with waste diversion programs. The two more recent statutes, in Chapters 12.8 and 12.9 of Division 30 of the Public Resources Code related to waste management, require recycling of solid waste and organic waste. Chapter 12.8 requires that businesses and multi-family residential buildings with five units or more that generate more than four cubic yards of solid waste per week source separate its solid waste and subscribe to some kind of recycling service consistent with local ordinances or state regulations. Chapter 12.9 requires that businesses generating over specified amounts of organic solid waste per week arrange for recycling services for that organic solid waste, and also requires that if the state has not reached a reduction of 50 percent below the 2014 level of disposal of organic waste by 2020, businesses that generate more than two cubic yards of solid waste per week must source separate and arrange for recycling of organic solid waste. These statutes also require local jurisdictions to establish a commercial solid waste recycling program if it did not already have one as of July 2012, and an organic solid waste recycling program by January 2016 if it did not already have one.

The proposed IBEC Project or IBEC Project Variants will be subject to these statutory requirements, and will comply by following the requirements of Los Angeles County and the City of Inglewood. Solid waste generated within the County is disposed of at privately owned landfill facilities throughout Los Angeles County. In the City of Inglewood private haulers provide waste collection services for commercial developments within the City which would include the IBEC Project. Solid waste transported by private haulers is recycled, reused, transformed at a waste-to-energy facility, or disposed of at a landfill. Sunshine Canyon Landfill is the nearest municipal waste landfill within the County that could serve the proposed IBEC Project, and is permitted to accept commercial, and construction nonhazardous waste.

Construction and demolition activities would generate solid waste consisting of materials from existing structures to be removed, and excess waste from construction materials and packaging associated with the proposed structures. Prior to diversion for recycling, demolition of the existing structures, and construction of the proposed IBEC Project would generate solid waste from the demolition. Demolition of existing streets, pavements and concrete foundations could produce materials that can be recycled provided they conform to the specifications of the Standard Specifications for Public Works Construction, the latest Edition ("The Green Book"). The IBEC Project would recycle at least 75 percent of demolition materials, which exceeds the City of Inglewood's target of 50 percent demolition waste recycling and is in accordance with State diversion targets that aim to divert a minimum of 75 percent of construction and demolition materials from landfill disposal.

The IBEC Project would subscribe to a municipal solid waste collection service that is approved by the City and that meets applicable City and State waste collection, management, recycling and diversion requirements. In addition, the Project would also comply with all federal, State, and local regulations related to solid waste. Thus, the Applicant will be required to comply not only with the Public Resources Code requirements for commercial and organic waste recycling, but also with the requirements of Los Angeles County's and the City of Inglewood's local ordinances requiring recycling and composting solid waste both during construction and during operation of the IBEC Project or the IBEC Project Variants. The City of Inglewood's current solid waste and recycling hauler is Consolidated Disposal Services (CDS), a Republic Services company. CDS assists businesses in developing programs for businesses to recycle, based on the results of a waste audit.<sup>18</sup> Republic Services/CDS also provides containers to satisfy organic waste recycling requirements.<sup>19</sup>

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<sup>18</sup> <https://www.cityofinglewood.org/296/Business-Recycling> (accessed October 29, 2018).

<sup>19</sup> <http://local.republicservices.com/site/los-angeles-ca/inglewood> (accessed October 29, 2018).

***Information to show that the project applicant has entered into a binding and enforceable agreement that all mitigation measures required pursuant to this division and any other environmental measures required by this section to certify the project under this section shall be conditions of approval of the project, and those conditions will be fully enforceable by the lead agency or another agency designated by the lead agency. In the case of environmental mitigation measures and any other environmental measures required by this section, the applicant agrees, as an ongoing obligation, that those measures will be monitored and enforced by the lead agency for the life of the obligation. The project applicant shall submit to the lead agency an annual status report on the implementation of the environmental mitigation measures and any other environmental measures required by this section. Information to show that the project applicant will pay any additional costs incurred by the courts in hearing and deciding any case subject to Public Resources Code section 21168.6.8 and costs of preparing the record of proceedings.***

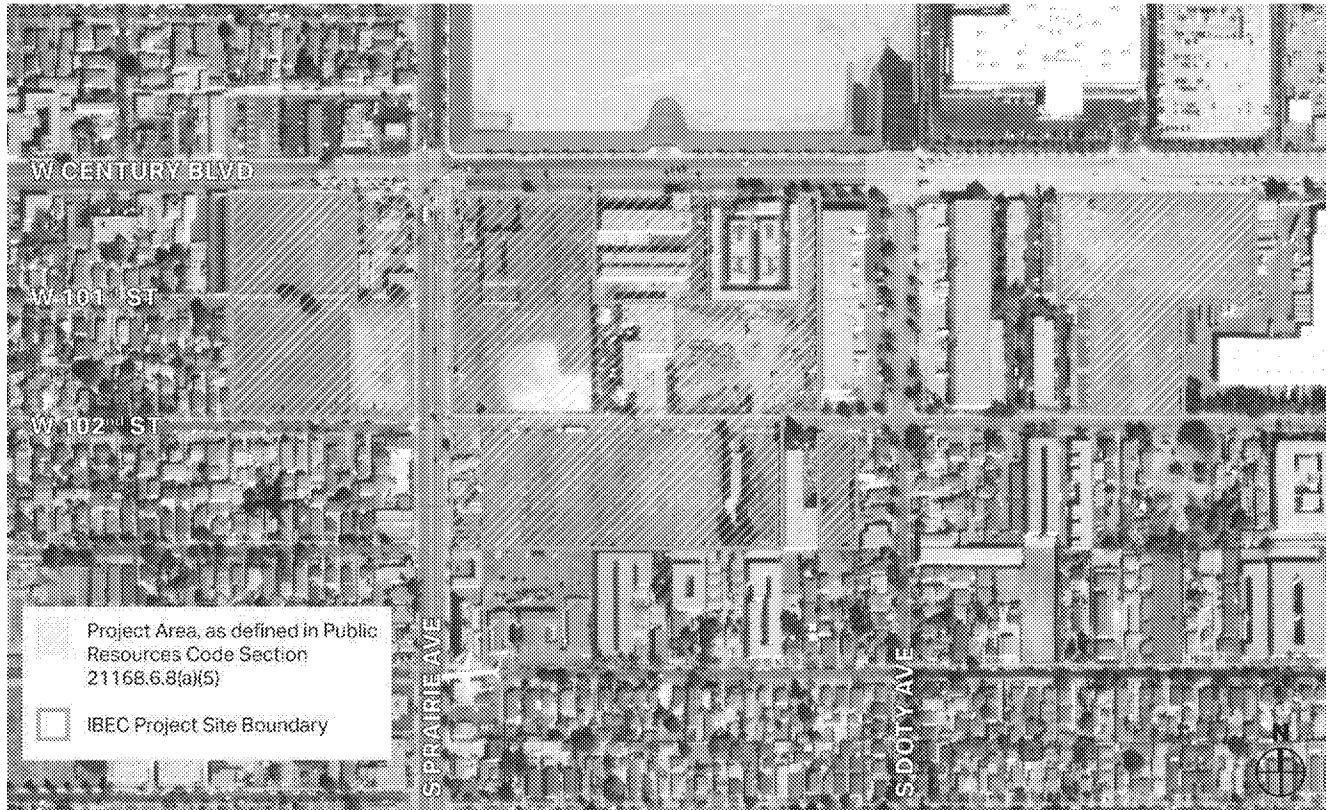
Written acknowledgement from the project sponsor and the City of Inglewood containing commitments regarding Public Resources Code sections 21168.6.8(b)(5 - 7) is included as **Attachment F**. This acknowledgment is a binding and enforceable agreement to implement all mitigation measures required pursuant to CEQA and any other environmental measures required by AB 987. The project sponsor is committed to comply with all Mitigation Monitoring and Reporting Program measures from the EIR and environmental measures required by AB 987 that are included as conditions of approval and that those conditions will be fully enforceable by the City of Inglewood. The project sponsor agrees to pay any additional costs incurred by the courts in hearing and deciding any case subject to Public Resources Code section 21168.6.8, and will pay the costs of preparing the record of proceedings.

## **Attachment A**

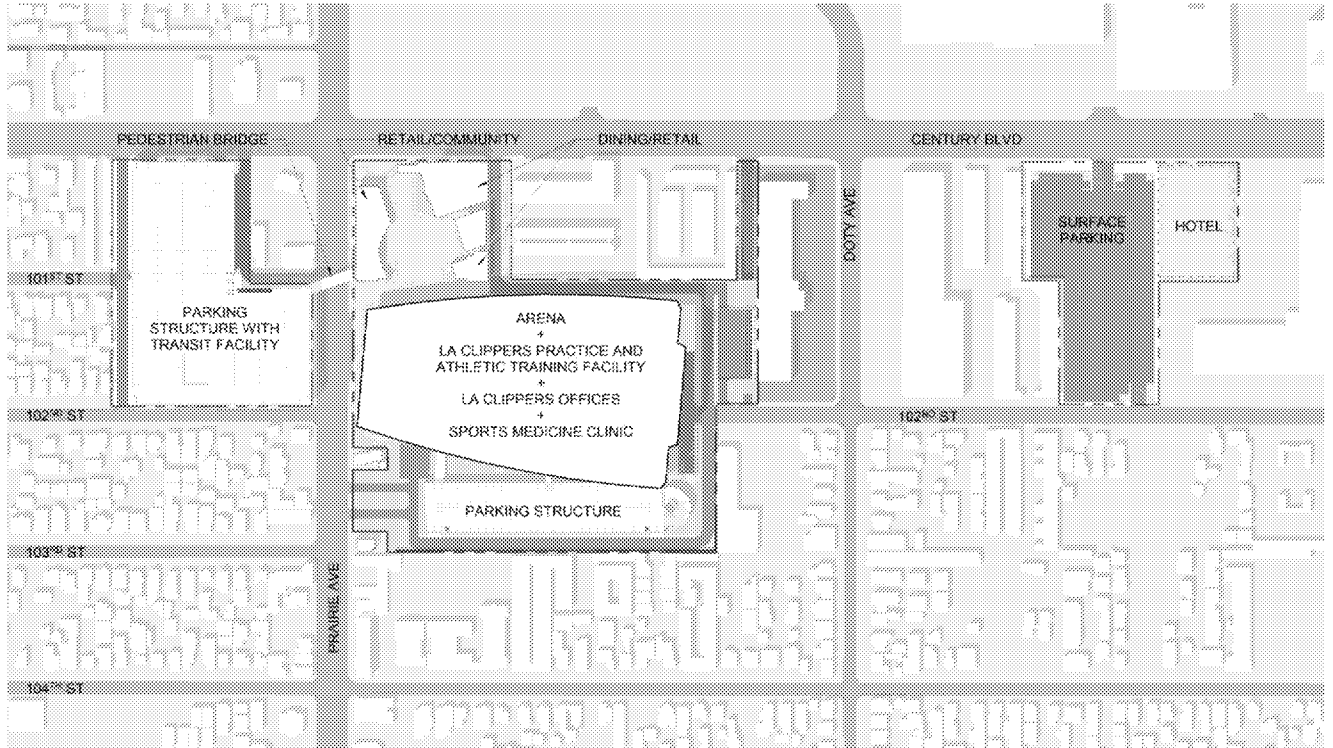
### **Project Maps**



## Attachment A-1. Project Area and Project Site Boundary



**Attachment A-2. Proposed Inglewood Basketball and Entertainment Center Project Site Plan**





**Attachment B**

**LEED Scorecards**





**LEED v4 for BD+C: Core and Shell**  
IBEC Project Checklist

**Target Certification:** Gold  
**Anticipated Certification:** Gold

Y L U N P

1					D	Credit	Integrative Process	1
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10	1	5	4				<b>Location and Transportation</b>	<b>20</b>
					D	Credit	LEED for Neighborhood Development Location	20
2					D	Credit	Sensitive Land Protection	2
		3			D	Credit	High Priority Site	3
		2	4		D	Credit	Surrounding Density and Diverse Uses	6
6					D	Credit	Access to Quality Transit	6
1					D	Credit	Bicycle Facilities	1
	1				D	Credit	Reduced Parking Footprint	1
1					D	Credit	Green Vehicles	1

5	1	3	1				<b>Sustainable Sites</b>	<b>11</b>
Y					C	Prereq	Construction Activity Pollution Prevention	Required
1					D	Credit	Site Assessment	1
		2			D	Credit	Site Development - Protect or Restore Habitat	2
	1				D	Credit	Open Space	1
2		1			D	Credit	Rainwater Management	3
1			1		D	Credit	Heat Island Reduction	2
1					D	Credit	Light Pollution Reduction	1
1					D	Credit	Tenant Design and Construction Guidelines	1

8	0	1	2				<b>Water Efficiency</b>	<b>11</b>
Y					D	Prereq	Outdoor Water Use Reduction	Required
Y					D	Prereq	Indoor Water Use Reduction	Required
Y					D	Prereq	Building-Level Water Metering	Required
2					D	Credit	Outdoor Water Use Reduction	2
4			2		D	Credit	Indoor Water Use Reduction	6
2					D	Credit	Cooling Tower Water Use	2
		1			D	Credit	Water Metering	1

16	5	7	8				<b>Energy and Atmosphere</b>	<b>33</b>
Y					C	Prereq	Fundamental Commissioning and Verification	Required
Y					D	Prereq	Minimum Energy Performance	Required
Y					D	Prereq	Building-Level Energy Metering	Required
Y					D	Prereq	Fundamental Refrigerant Management	Required
3			3		C	Credit	Enhanced Commissioning	6
8	3	2	5		D	Credit	Optimize Energy Performance	18
1					D	Credit	Advanced Energy Metering	1
		2			D	Credit	Demand Response	2
3		3			D	Credit	Renewable Energy Production	3
1					D	Credit	Enhanced Refrigerant Management	1
	2				D	Credit	Green Power and Carbon Offsets	2

4	1	3	5				<b>Materials and Resources</b>	<b>14</b>
Y					D	Prereq	Storage and Collection of Recyclables	Required
Y					C	Prereq	Construction and Demolition Waste Management Planning	Required
		3	2		C	Credit	Building Life-Cycle Impact Reduction	6
1			1		C	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1			1		C	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
	1		1		C	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2					C	Credit	Construction and Demolition Waste Management	2

9	0	1	0				<b>Indoor Environmental Quality</b>	<b>10</b>
Y					D	Prereq	Minimum Indoor Air Quality Performance	Required
Y					D	Prereq	Environmental Tobacco Smoke Control	Required
2					D	Credit	Enhanced Indoor Air Quality Strategies	2
3					C	Credit	Low-Emitting Materials	3
1					C	Credit	Construction Indoor Air Quality Management Plan	1
2		1			D	Credit	Daylight	3
1					D	Credit	Quality Views	1

5	0	1	0				<b>Innovation</b>	<b>6</b>
1					D	Credit	Innovation: Green Training for Contractors, trades, operators	1
1					D	Credit	Innovation: Green Education Program	1
1					D	Credit	Innovation: LEED O+M Starter Kit (Pest Management + Green Cleaning Program)	1
1					D	Credit	Innovation: Purchasing - lamps	1
		1			D	Credit	Innovation: Integrated transportation management plan	1
1					D	Credit	LEED Accredited Professional	1

4	0	0	0				<b>Regional Priority</b>	<b>4</b>
1						Credit	Regional Priority: Indoor Water Use Reduction	1
1						Credit	Regional Priority: Optimized Energy Performance	1
1						Credit	Regional Priority: Rainwater Management	1
1						Credit	Regional Priority: Access to Quality Transit	1

62	8	21	20				<b>TOTALS</b>	Possible Points: <b>110</b>
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**Certified:** 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

**Key:** Y - Yes, L - Likely, U - Unlikely, N - No, P - Design Phase



**LEED v4 for BD+C: New Construction and Major Renovation**  
 IBEC Project Checklist

**Target Certification:** Gold  
**Anticipated Certification:** Gold

Y L U N P

1					D	Credit	Integrative Process	1
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7	2	4	3				<b>Location and Transportation</b>	<b>16</b>
					D	Credit	LEED for Neighborhood Development Location	16
1					D	Credit	Sensitive Land Protection	1
		2			D	Credit	High Priority Site	2
		2	3		D	Credit	Surrounding Density and Diverse Uses	5
5					D	Credit	Access to Quality Transit	5
	1				D	Credit	Bicycle Facilities	1
	1				D	Credit	Reduced Parking Footprint	1
1					D	Credit	Green Vehicles	1

5	1	3	1				<b>Sustainable Sites</b>	<b>10</b>
Y					C	Prereq	Construction Activity Pollution Prevention	Required
1					D	Credit	Site Assessment	1
		2			D	Credit	Site Development - Protect or Restore Habitat	2
	1				D	Credit	Open Space	1
2		1			D	Credit	Rainwater Management	3
1			1		D	Credit	Heat Island Reduction	2
1					D	Credit	Light Pollution Reduction	1

8	0	1	2				<b>Water Efficiency</b>	<b>11</b>
Y					D	Prereq	Outdoor Water Use Reduction	Required
Y					D	Prereq	Indoor Water Use Reduction	Required
Y					D	Prereq	Building-Level Water Metering	Required
2					D	Credit	Outdoor Water Use Reduction	2
4			2		D	Credit	Indoor Water Use Reduction	6
2					D	Credit	Cooling Tower Water Use	2
		1			D	Credit	Water Metering	1

18	3	4	8				<b>Energy and Atmosphere</b>	<b>33</b>
Y					C	Prereq	Fundamental Commissioning and Verification	Required
Y					D	Prereq	Minimum Energy Performance	Required
Y					D	Prereq	Building-Level Energy Metering	Required
Y					D	Prereq	Fundamental Refrigerant Management	Required
3			3		C	Credit	Enhanced Commissioning	6
11	1	1	5		D	Credit	Optimize Energy Performance	18
1					D	Credit	Advanced Energy Metering	1
		2			D	Credit	Demand Response	2
3					D	Credit	Renewable Energy Production	3
		1			D	Credit	Enhanced Refrigerant Management	1
	2				D	Credit	Green Power and Carbon Offsets	2

4	1	3	5				<b>Materials and Resources</b>	<b>13</b>
Y					D	Prereq	Storage and Collection of Recyclables	Required
Y					C	Prereq	Construction and Demolition Waste Management Planning	Required
		3	2		C	Credit	Building Life-Cycle Impact Reduction	5
1			1		C	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1			1		C	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
	1		1		C	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2					C	Credit	Construction and Demolition Waste Management	2

9	0	6	1				<b>Indoor Environmental Quality</b>	<b>16</b>
Y					D	Prereq	Minimum Indoor Air Quality Performance	Required
Y					D	Prereq	Environmental Tobacco Smoke Control	Required
2					D	Credit	Enhanced Indoor Air Quality Strategies	2
3					C	Credit	Low-Emitting Materials	3
1					C	Credit	Construction Indoor Air Quality Management Plan	1
2					C	Credit	Indoor Air Quality Assessment	2
1					D	Credit	Thermal Comfort	1
		2			D	Credit	Interior Lighting	2
		2	1		D	Credit	Daylight	3
		1			D	Credit	Quality Views	1
		1			D	Credit	Acoustic Performance	1

5	0	1	0				<b>Innovation</b>	<b>6</b>
1					D	Credit	Innovation: FanFirst / Occupant Comfort Survey	1
1					D	Credit	Innovation: Green Education Program	1
1					D	Credit	Innovation: LEED O+M Starter Kit (Pest Management + Green Cleaning Program)	1
1					D	Credit	Innovation: Purchasing - lamps (100% LED lamps)	1
		1			D	Credit	Innovation: Design for active occupants	1
1					D	Credit	LEED Accredited Professional	1

4	0	0	0				<b>Regional Priority</b>	<b>4</b>
1						Credit	Regional Priority: Enhanced Commissioning	1
1						Credit	Regional Priority: Optimized Energy Performance	1
1						Credit	Regional Priority: Outdoor Water Use Reduction	1
1						Credit	Regional Priority: Indoor Water Use Reduction	1

**61 7 22 20** **TOTALS** **Possible Points: 110**

**Certified:** 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

**Key:** Y - Yes, L - Likely, U - Unlikely, N - No, P - Design Phase

**Attachment C**

**IBEC TDM Program**





## IBEC Project Transportation Demand Management Program

This memorandum, Attachment C of the AB 987 application for the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project), provides a summary of the Transportation Demand Management Program for the IBEC Project (IBEC TDM Program). The IBEC TDM Program includes strategies, incentives and tools that provide opportunities for event attendees and employees to reduce single-occupancy vehicle trips and use other modes of transportation besides automobile to travel to basketball games and other events hosted at the IBEC Project.

In compliance with the AB 987 requirement, the IBEC TDM Program is designed to achieve a 15% reduction in vehicle trips on an annual basis as compared to the IBEC Project absent a transportation demand management program through implementation of a combination of the measures detailed in this attachment. The IBEC TDM Program is therefore also designed to exceed the required 7.5% reduction in vehicle trips by the end of the first NBA season, as required by AB 987. The measures included in the IBEC TDM Program are subject to further refinement and revision, and will be coordinated with the City of Inglewood at the time of project approval, with achievement of the 15% reduction in vehicle trips verified to the City of Inglewood and the Office of Planning and Research no later than January 1, 2030.

### **TDM 1 – Encourage Alternative Modes of Transportation (Rail, Public Bus, and Vanpool)**

The IBEC Project would encourage alternative modes of transportation use by providing monetary incentives and bus stop improvements near the Project Site such as:

- Integrated event and transit ticketing to enable seamless connections and provide event-day travel updates.
- Discounted event tickets with the purchase of a transit pass or providing proof of a registered TAP card (the regional fare payment method).
- Giveaways for transit users (goods for attendees, free tickets for employees, etc.).
- Rewards/gamification opportunities for fans to compete for prizes or points based on their transportation choices.
- Bus stop facilities improvements: the IBEC Project would provide on-site and/or off-site improvements such as lighting, new benches and overhead canopies, added bench capacity if needed, and real-time arrival information for an improved user experience for bus stops that are relocated as a result of the IBEC Project.
- Transit and/or Multi-Modal Subsidy: the IBEC Project would provide pre-tax commuter benefits for employees.
- Vanpool Subsidy: This would provide pre-tax commuter benefits for employees.



- Marketing and outreach campaign for transit usage.

### **TDM 2 – Event-day Dedicated Shuttle Services**

The IBEC Project will provide connectivity to the existing and future Metro Rail Stations and would take advantage of the transportation resources in the area. The IBEC Project would ensure a sufficient number of shuttles will be provided for a successful and convenient connectivity with short wait times. The following would be provided:

- The IBEC Project would provide dedicated shuttle service from the Green Line at Hawthorne Station, Crenshaw/LAX Line at AMC/96th Station, and Crenshaw/LAX Line at La Brea/Florence (Downtown Inglewood) Stations for arena events. This shuttle service would be a dedicated event-day shuttle services from the venue for employees and attendees.
- The IBEC Project would provide an estimated 27 shuttles with a capacity of 45 persons per shuttle to accommodate employees and attendees traveling to and from the Project Site. Due to the arrival and departure of employees prior to the attendees, the same shuttles would be utilized for the employees. It anticipated the shuttle service would begin two hours before the game and extend to 30 minutes after the start. After the game, shuttle service would begin 30 minutes before the end, and continues one hour after.
- The IBEC Project would provide a convenient and safe location on-site for shuttle pick-up and drop-off on the east side of Prairie Avenue, approximately 250 feet south of Century Boulevard. The drop-off location would be adjacent to the arena so that shuttle users would not need to cross Prairie Avenue to arrive at the arena.

### **TDM 3 – Encourage Carpools and Zero-Emission Vehicles**

The IBEC Project would provide several incentives that would encourage carpooling and zero-emission vehicles as a means for sharing access to and from the Project Site including the following:

- Provide incentives for carpools or zero-emission vehicles, including preferential parking with the number of parking spots in excess of applicable requirements, reduced parking costs, or other discounts/benefits.
- Provide variable parking price based on car occupancy - structured to encourage carpooling.
- The IBEC Project would provide 8% of parking spaces with electrical vehicle charging stations in excess of the minimum requirement of 6%.





#### **TDM 4 – Encourage Active Transportation**

The IBEC Project includes features which would enhance the access for bicyclists and pedestrians including the following:

- **Bicycle Parking:** Provide bicycle parking in excess of applicable code requirements. The Project Site would provide 60 employee bike parking spaces and 23 attendee bike parking spaces.
- Provide showers and lockers for employees.
- A bike valet service would be implemented if needed to accommodate bike parking space needs.
- **Bicycle Fix-it Station:** Provide a bicycle repair station where bicycle maintenance tools and supplies are readily available on a permanent basis and offered in good condition.
- Coordinate Bike Pools and Walk Pools.
- Sidewalks or other designated pathways following safe routes from the pedestrian circulation to the bicycle parking facilities and throughout the development

#### **TDM 5 – Employee Vanpool Program**

The IBEC Project would provide an employee vanpool program that would accommodate for up to 66 employees utilizing the vanpool service. Each vanpool is assumed to have a capacity of 15 persons per vehicle. The Vanpool Program would be in conjunction with a vanpool subsidy providing pre-tax commuter benefits for employees as indicated in TDM 1.

#### **TDM 6 – Park-n-Ride Program**

The IBEC Project would provide a regional park-n-ride program that would utilize charter coach buses with a capacity of up to 45 persons per bus to accommodate up to 1,980 attendees. Parking lot locations would correspond to zip code ticket purchase data, and the site circulation would be designed to account for the charter coaches. The operation of this park-n-ride would be similar to the currently operating park-n-ride program from the Hollywood Bowl venue located in the Hollywood Hills within the County of Los Angeles.

#### **TDM 7 - Information Services**

The IBEC Project would provide a number of services which would inform the public about activities at the IBEC including the following:

- Strategic Multi-modal Signage/Wayfinding



- Real-time travel information; Changeable Message Sign (CMS) and social media.
- Welcome packets for new employees and ongoing marketing
- Commercials/Advertisement - Television, Website, Social Media, Radio, etc.
- Information kiosk or bulletin board providing information about public transportation options.

#### **TDM 8 – Reduce On-Site Parking Demand**

The IBEC Project includes features that reduce on-site parking demand such as:

- Provide coach bus/minibus/microtransit staging and parking areas: the IBEC Project is designed to accommodate 20 minibus/microtransit/paratransit parking spaces and 23 charter coach bus spaces. The capacity for minibus/microtransit/paratransit is 10 persons per vehicle and 45 persons per bus for the charter coach bus.
- Allocated sufficient TNC staging spaces: the IBEC Project is designed to accommodate approximately 160 spaces for TNC staging.

#### **TDM 9 – Event-Day Local Microtransit Service**

- The IBEC Project would provide a local minibus/microtransit service for all event-days with a service range of approximately six (6) miles surrounding the Project Site. Each minibus is assumed to have a capacity of 10 persons per vehicle, and the service would accommodate up to 66 employees and up to 180 attendees on all event days.

## **Attachment D**

### **IBEC Trip Generation Memorandum**





## IBEC Project Trip Generation Memorandum

This memorandum, Attachment D to the AB 987 application for the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project), provides a summary of trip generation estimates for the IBEC Project. It has been prepared to demonstrate the effectiveness of the IBEC Transportation Demand Management Program (IBEC TDM Program) to achieve a 15% reduction in vehicle trips as compared to the IBEC Project absent implementation of a transportation demand management program. The IBEC TDM Program is detailed in Attachment C to the AB 987 application. The measures included in the IBEC TDM Program are subject to further refinement and revision, and will be coordinated with the City of Inglewood at the time of project approval, with achievement of the 15-percent reduction in vehicle trips verified to the City of Inglewood and Office of Planning and Research no later than January 1, 2030.

The IBEC Project presented in the AB 987 application and evaluated in this memorandum includes two variants to allow for flexibility in the development of the project, the Alternate Prairie Access Variant and the West Century Boulevard Pedestrian Bridge Variant, as described in the AB 987 application. Given that both variants would have the same program of development, anticipated number and type of events, and employment as the IBEC Project, the trip generation and travel demand would also be the same. Therefore, although this memo only specifically addresses the IBEC Project, the analysis and conclusions would remain the same for either of the IBEC Project Variants.

A vehicle trip generation analysis was conducted for the IBEC Project to estimate the anticipated reduction in vehicle trips produced by implementation of the IBEC TDM Program. AB 987 requires the IBEC TDM Program to achieve, upon full implementation, a 15 % reduction in the number of vehicle trips compared to operations absent the TDM Program. No less than a 7.5% reduction must be achieved and maintained by the end of the first NBA season during which an NBA team has played at the IBEC Project arena. The 15% reduction must be achieved and maintained as soon as feasible, but no later than January 1, 2030. In compliance with the AB 987 requirement, the IBEC TDM Program is designed to achieve a 15% reduction in vehicle trips on an annual basis upon implementation during the first NBA season, also meeting the 7.5% reduction in vehicle trips requirement.

The trip generation analysis below includes an estimation of vehicle trips for the LA Clippers home basketball games and other non-NBA basketball game events to be hosted at the IBEC Project arena, as well as LA Clippers employees who will use the LA Clippers practice and training facility and the LA Clippers offices, and vehicle trips associated with the sports medicine clinic, retail, restaurant, community space and hotel uses included in the IBEC Project. In order to demonstrate the effects of the IBEC TDM Program on vehicle trips, the following vehicle trip generation scenarios were developed:

- IBEC Project Without IBEC TDM Program Scenario
  - Weekdays Without and With Events



- Weekends Without and With Events
- IBEC Project With IBEC TDM Program Scenario
  - Weekdays Without Events and With Events
  - Weekends Without Events and With Events

This trip generation analysis determines the vehicle trips associated with the different components of the IBEC Project. The two primary trip-generating components of the IBEC Project are the spectator events to be hosted at the IBEC Project and the related development included in the IBEC Project, as summarized below.

**IBEC Project Events** includes LA Clippers home basketball games and other events of various size, including concerts, other sporting events, family shows, conferences, and civic and community events. IBEC Project Events were analyzed by applying estimated mode share splits and average vehicle occupancy to the anticipated number of event attendees to determine the number of trips for an event. A more detailed discussion of the estimated mode share splits and average vehicle occupancy applied are discussed below in a separate section.

**Ancillary Uses** include the LA Clippers team office and LA Clippers practice and training facility, the sports medicine clinic, restaurant and retail space, community space, and hotel. The sports medicine clinic, dining and retail space, community space, and hotel uses were analyzed using the proposed land use allocation through application of the standardized trip generation rates, internal capture methodology and pass-by reduction from the nationally accepted ITE Trip Generation Handbooks 10<sup>th</sup> Edition<sup>1</sup>. As the LA Clippers office and the LA Clippers practice and training facility will only be utilized by LA Clippers employees, vehicle trips were estimated using the application of mode share splits and average vehicle occupancy<sup>2</sup> for those employees. Mode share splits and average vehicle occupancy applied for LA Clippers employees is based on the journey to work profile data for the County of Los Angeles<sup>2</sup> with adjustments due to transportation characteristics at the IBEC Project Site. A more detailed discussion of the mode share splits and average vehicle occupancy used in this analysis is provided below.

To determine the effects of the IBEC TDM Program on trip generation for the IBEC Project, the measures and strategies included in the IBEC TDM Program were analyzed to determine the changes in transportation mode shares and average vehicle occupancy and increased transit use resulting from implementation of the IBEC TDM Program. Comparison of the calculation of trip generation for the IBEC Project Without TDM Program scenario and the IBEC Project With TDM Program scenario demonstrates the reduction of vehicle trips expected to result from implementation of the IBEC TDM Program.

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<sup>1</sup> Institute of Transportation Engineers, Trip Generation Handbooks 10th Edition, September, 2017

<sup>2</sup> Southern California Association of Governments, Profile of Los Angeles County, May, 2017

## **IBEC Project Events Trip Generation Methodology**

The main component of the IBEC Project is a multipurpose arena that would host LA Clippers home basketball games and other entertainment and sporting events. Commonly used or standard trip generation resources, such as the Trip Generation Manual published by the Institute of Transportation Engineers (ITE), and similar methodologies, which provide estimates of vehicle trip generation based on the size or other features of a particular land use do not sufficiently address trip generation for the arena. Therefore, trip generation for the arena was based on the estimated attendance of the events to be hosted at the IBEC Project and travel characteristics derived from current attendees of LA Clippers games at Staples Center and other resources. Annual vehicle trip generation for the IBEC Project events was determined by determining the maximum number of employees and attendees and projected frequency for each event type and applying mode share splits average vehicle occupancy to determine the number of vehicle trips. For a conservative analysis, vehicle trip generation for the LA Clippers home basketball games and other events anticipated to occur at the IBEC Project is based on the maximum anticipated attendance for each event type.

Transportation mode share splits for the IBEC Project events are dependent on the implementation of the IBEC TDM Program and number of attendees anticipated for those events. Basketball home games and concerts were assumed to have the same mode share splits due to the anticipated large number of attendees and high parking demand compared to the provided on-site parking spaces. A different mode share split is assumed for the other events with a smaller number of attendees, because it is anticipated that for smaller events, there would be less incentive to use alternative means of transportation due to the lower parking demand for the same number of on-site parking spaces. Average vehicle occupancy varies depending on whether the event is occurring during the weekday or weekend. The various mode share splits and average vehicle occupancy, and determination of appropriate percentages applied, are discussed below.

Off-site parking and shuttle services would be provided for event employees. This trip generation analysis incorporates both the employee trips to the off-site parking lot and shuttle trips to arrive at the IBEC Project Site, but because the off-site parking would be relatively close to the Project Site, the employee trips are considered vehicle trip and the shuttle trips for employees from off-site parking are not considered a change in mode share from automobile travel.

**Table 1** provides a summary of the projected annual events at the IBEC Project and the maximum number of attendees and employees for each event.

Table 1 – IBEC Project Events Program						
Events	Maximum # of Attendees	# of Employees	Annual # of Events			
			Total	Weekday (Mon-Fri)	Weekend (Sat-Sun)	
Los Angeles Clippers Basketball Home Games						
<i>Pre-Season</i>	18,000	1,320	5	3	2	
<i>Home Games</i>	18,000	1,320	41	29	12	
<i>Post-Season</i>	18,000	1,320	3	2	1	
Concerts						
<i>Large Concerts</i>	18,500	1,120	5	2	3	
<i>Medium Concerts</i>	14,500	795	8	3	5	
<i>Small Concerts</i>	9,500	530	10	4	6	
Family Shows	8,500	530	20	10	10	
Other Events	7,500	480	35	21	14	
Conventions/Corporate Events	2,000	25	100	70	30	
Plaza Events	4,000	25	16	8	8	
<b>Total</b>			<b>243</b>	<b>152</b>	<b>89</b>	

Source: AECOM 2018

The number and type of events provided in Table 1 represent the projected annual frequency of each event type for a typical year of operation of the IBEC Project. The annual number of postseason basketball games is based on the average number of home postseason basketball teams played by NBA teams since the inception of the current postseason format in the 2002-03 NBA season.

### IBEC Project Ancillary Uses Trip Generation Methodology

Annual vehicle trip generation for the IBEC Project ancillary uses, other than the LA Clippers offices and the LA Clippers practice and training facility, were estimated using the gross area square footage or number of rooms for each ancillary use and applying standardized trip rates, internal capture reduction between ancillary uses, internal capture reduction between the ancillary uses and the arena events, pass-by reduction and the number of operating days.

The following provides an explanation of each of the factors applied to the trip generation calculation:

- Standardized trip rates from the ITE Trip Generation Handbook 10<sup>th</sup> edition were applied to that majority of the ancillary uses except for the LA Clippers Team Store and Other General Retail & Service. Since these ancillary uses are intended to be a specialty retail store and the ITE Trip Generation Handbook 10<sup>th</sup> edition does not have a specialty retail trip rates, standardized trip



rates for specialty retail from the San Diego Association of Governments (SANDAG)<sup>3</sup> were utilized. The standardized trip rates from SANDAG are accepted by many agencies throughout Southern California in lieu of the ITE trip generation rates.

- Internal capture adjustment between ancillary uses and pass-by trip reduction were based on the nationally accepted ITE Trip Generation Handbooks 10<sup>th</sup> Edition.
- The majority of the retail, dining and hotel ancillary uses are anticipated to operate seven days a week while the Sports Medicine Clinic and Community Space are anticipated to operate five weekdays per week. Internal capture percent reduction between the ancillary uses and the arena events is based on the assumption that during an event the customers of the ancillary uses would be event attendees. The percent reduction was calculated based on a comparison of an estimated weighted average duration of an event to the operating hours of the ancillary uses.

### ***LA Clippers Employees (LA Clippers Offices and Practice and Training Facility)***

The office space and the practice and training facility components of the IBEC Project are project-specific land uses that would be used only by LA Clippers employees. The method used to analyze trips for LA Clippers employees is similar to the analysis of trip generation for arena events, estimated using the number of employees and applying mode share splits, average vehicle occupancy and the number of operating days to determine annual trip generation. The number of LA Clippers employees is assumed to be the same as the current number of LA Clippers employees.

- The LA Clippers employees who will occupy the office space, including management and operations personnel, are assumed to work five days per week throughout the year.
- Although the working days for LA Clippers basketball employees, including players, coaches, and training and support staff, vary throughout the calendar year based on the NBA season and travel for away basketball games, LA Clippers basketball employees are conservatively assumed to travel to the IBEC Project Site (to the practice and training facility or to the arena) five days per week throughout the year except when traveling for away basketball games.
- The mode share splits and average vehicle occupancy used to calculate the vehicle trips for LA Clippers employees are discussed below.

**Table 2** provides a summary of the ancillary uses and correlating square footages and trip rates applied for the vehicle trip generation calculation.

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<sup>3</sup> San Diego Association of Governments, Brief Guide of Vehicular Trip Generation Rates for the San Diego Region, September, 2002

Land Use	Size		ITE Land Use (10th Edition)			
			#	Description	Weekday Daily Avg Rate	Weekend Daily Avg Rate
LA Clippers Management and Operations Employees (Office)	275	Emp	N/A	N/A	N/A	N/A
LA Clippers Basketball Employees (Team Practice & Training Facility)	54	Emp	N/A	N/A	N/A	N/A
Sports Medicine Clinic	25,000	SF	630	Clinic	30.18	N/A
Community Space	15,000	SF	495	Recreational Community Center	28.82	N/A
Full-Service Restaurant/Bar	7,000	SF	931	Quality Restaurant	83.84	90.04
Full-Service Restaurant/Lounge	8,000	SF	931	Quality Restaurant	83.84	90.04
Coffee Shop	5,000	SF	930	Fast Casual Restaurant	315.17	318.62
Quick-Service Restaurant	4,000	SF	930	Fast Casual Restaurant	315.17	318.62
LA Clippers Team Store	7,000	SF	SANDAG	Specialty Retail	40.00	40.00
Other General Retail & Service	17,000	SF	SANDAG	Specialty Retail	40.00	40.00
Hotel	150	RM	312	Business Hotel	4.02	5.79

Source: AECOM 2018



## Effects of IBEC TDM Program on Vehicle Trip Generation

The effects of the IBEC TDM Program on vehicle trip generation for the IBEC Project were estimated by considering changes in transportation mode shares, average vehicle occupancy and increased transit use resulting from implementation of the IBEC TDM Program. The effectiveness of the IBEC TDM Program is demonstrated in this analysis through comparison of trip generation estimates for two scenarios: IBEC Project Without IBEC TDM Program scenario and IBEC Project With TDM Program scenario. A summary of the assumptions used for the vehicle trip generation estimates for each scenario is discussed below.

### IBEC Project Without IBEC TDM Program Scenario

The following summary describes transportation mode share splits and average vehicle occupancy applied to the trip generation estimates for the IBEC Project Without IBEC TDM Program scenario.

#### *Mode Share Splits*

Estimated mode share splits and average vehicle occupancy for the IBEC Project Without TDM Program scenario were based on a report produced by the Southern California Association of Governments (SCAG)<sup>4</sup>, which provides a variety of demographic, economic, education, housing and transportation information for the County of Los Angeles, and on a survey of LA Clippers basketball game attendees at the Staples Center. Additional adjustments to the mode share splits and vehicle occupancy were applied to account for the unique transportation characteristics of the IBEC Project Site location.

For the IBEC Project Without IBEC TDM Program scenario, employees and attendees are expected to travel to the IBEC Project in one of the following six ways, based on the transportation characteristics surrounding the Project Site:

- Automobile
- Transit-Rail
- Transit-Public Bus
- Shared Mobility (Uber, Lyft, Taxi, etc.)
- Walk
- Bike

The surrounding transportation characteristics at the IBEC Project Site include the following:

#### ***LA Metro Rail Station and Bus Rapid Transit (BRT) Stop:***

LA Metro's existing and planned fixed guideway network includes several transit lines and stops that would provide access to the IBEC Project Site.

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<sup>4</sup> Southern California Association of Government, Profile of Los Angeles County May, 2017

The ***Metro Green Line***, a 20-mile light rail line with 14 stations, provides service from Norwalk to Redondo Beach. Most of the Green Line stations provide ample parking capacity for riders, and offer a combination of bike lockers or bike racks for cyclists as well. The closest Green Line station to the IBEC Project Site is the Hawthorne/Lennox Station, which is approximately 0.8 mile to the southwest.

The ***Bus Rapid Transit (BRT) Line 740***, a 12-mile express bus line with 18 stop locations, provides service from Redondo Beach/Torrance to the neighborhood of Crenshaw in South Los Angeles. This BRT currently operates at an approximate frequency of 15 minutes during the weekday and 30 minutes during the weekend. The closest rapid stop to the IBEC Project Site is the Hawthorne/Century stop, which is approximately 0.5 miles west of the Project Site.

Future transportation network improvement includes the ***LA Metro Crenshaw/LAX project***. The LA Metro Crenshaw/LAX project is an 8.5-mile light rail line between the Metro Green Line and Exposition Line serving the cities of Los Angeles, Inglewood and El Segundo and is planned to be open in 2019. Three stations associated with the Metro Crenshaw/LAX Line are planned in the City of Inglewood: the Downtown Inglewood Station located approximately 1.6 miles to the north of the IBEC Project Site, the Westchester/Veterans Station located approximately 2 miles northwest of the Project Site, and the Fairview Heights station located approximately 2 miles north of the Project Site. Once completed, the Crenshaw/LAX Line and the existing Green Line (with operational updates) will both stop at the future Airport Metro connector (AMC) 96<sup>th</sup> Street Transit Station which is located approximately 2.0 miles west of the Project Site. This station is also planned to connect to the proposed future automated people mover (APM) which is currently under the final design and construction phase and will be operated by the Los Angeles World Airports (LAWA). The APM and the AMC 96<sup>th</sup> Street Transit Station are anticipated to open in 2023, before the IBEC Project becomes operational.

However, without shuttle service to and from the IBEC Project Site, it is unlikely that the riders would take advantage of the existing and future transit rail services, since riders would need to take the BRT from the stations to the intersection of Century Boulevard and Hawthorne Boulevard BRT stop and walk approximately 0.5 miles to the arena.

Due to the lack of adequate infrastructure, walking and bicycling is currently not a popular alternative to transit or other means of transportation in the vicinity of the IBEC Project Site. The streets that surround the Project Site lack pedestrian friendly sidewalks that would encourage walking. There currently is lack of bicycle infrastructure such as bicycle stations or routes in the vicinity of the Project Site which would encourage cycling as a means of transportation. Based on the City of Inglewood's General Plan, only a portion of Prairie Avenue (north of Century Boulevard) and Century Avenue (east of Prairie Avenue) is included in the Bike Route Plan.

The transportation mode shares for the IBEC Project Without IBEC TDM Program scenario were developed based on survey data and the transportation characteristics in the Project Site vicinity. Table 3 provides a summary of the transportation mode shares for the IBEC Without IBEC TDM Program



scenario. As shown on Table 3, 95% of employees and 89% of attendees are assumed to drive to the Project Site and 5% of employees and 11% of attendees are assumed to use other modes of transportation.

Table 3 –IBEC Project Without IBEC TDM Program Transportation Mode Shares		
Modes of Transportation	Employees	Attendees
Drive % (Auto)	95%	89%
Other Modes of Transportation		
Transit-Rail %	0%	0%
Transit - Public Bus %	3%	1%
Shared Mobility (TNC - Uber, Lyft, etc.) %	1%	10%
Walk %	1%	0%
Bike %	0%	0%
Total of Other Modes of Transportation Percentage	5%	11%
Total Mode Share Percentage	100%	100%

Source: AECOM 2018

### *Employee Modes of Transportation*

Employee transportation mode splits are based on information about travel behavior and patterns collected and published by the Southern California Association of Governments (SCAG) for the County of Los Angeles.<sup>5</sup> As indicated in the SCAG profile for journey to work for residents, 75% drive, 13% carpool, 7% utilize public transit and 5% walk or bike. Due to the location of the IBEC Project, these percentages were adjusted as follows:

- Automobile: The automobile trips were adjusted from the SCAG published mode share percentage based on the usage of the other modes of transportation.
- Transit-Rail: Zero percent of the employees were assumed to ride rail to the IBEC Project Site. The Project Site is located approximately 0.8 mile from the nearest Metro Rail Station (Metro Green Line at the Hawthorne/Lennox Station). With this distance and without a shuttle service from the station to Project Site, it is assumed that zero percent of the employees would utilize rail.
- Transit-Public Bus: Given the existing bus service near the proposed site, approximately three percent of employees (40 employees for a home basketball event) are assumed to use the bus.

<sup>5</sup> Southern California Association of Governments, Profile of Los Angeles County, May 2017.

- Shared Mobility (TNC - Uber, Lyft, Taxi, etc.): This mode is not yet accounted for in the SCAG Profile. However, due to the popularity of Transportation Network Companies (TNC) use, one percent of employees are conservatively assumed to use this mode.
- Walk: The project area does not have a user-friendly walking infrastructure. However, based on the local hire program, approximately one percent (13 employees for a home basketball event) of employees are assumed to walk to work.
- Bike: Zero percent of the employees are assumed to bike to work since the project area does not have a user-friendly biking infrastructure.

## *Attendee Modes of Transportation*

Attendee transportation mode splits are based on a survey of LA Clippers basketball game attendees at the Staples Center. As indicated in the survey, 80% of attendees drive, 11% ride the rail, 2% ride the public bus, 4% utilize shared mobility, 3% walk and 0% bike. Due to the location of the IBEC Project Site, these percentages were adjusted as follows:

- Automobiles: Automobile trips were adjusted from the survey transportation mode share percentage based on the usage of the other modes of transportation.
- Transit-Rail: Zero percent of the attendees were assumed to ride rail to the IBEC Project Site. The Project Site is located approximately 0.8 mile from the nearest Metro Rail Station (Metro Green Line at the Hawthorne/Lennox Station). With this distance and without a shuttle service from the station to Project Site, it is assumed that zero percent of the attendees would utilize rail.
- Transit-Public Bus: Given the existing bus service near the IBEC Project Site, approximately one percent of attendees are assumed to use the bus.
- Shared Mobility (Uber, Lyft, Taxi, etc.): Shared mobility mode share percentage was adjusted from the survey to ten percent due to the project's inclusion of a staging area for shared mobility services.
- Walk: Zero percent of the attendees are assumed to walk to the Project Site since the project area does not have a user-friendly walking infrastructure.
- Bike: Zero percent of the attendees are assumed to bike to the Project Site since the project area does not have a user-friendly biking infrastructure.

## *Average Vehicle Occupancy*

Under the IBEC Project Without IBEC TDM Program scenario, average vehicle occupancy for automobiles and shared mobility is assumed to be 1.5 employees per vehicle for both weekday and weekends and 2.3 attendees per vehicle during the weekday and 2.5 during the weekend, as shown in Table 4. The weekend average vehicle occupancy for the attendees is based on an analysis conducted



for the IBEC Project by Walker Consultants<sup>6</sup> and weekday average vehicle occupancy is based on the parking study with adjustments based on the assumption that less carpooling occurs during the weekday due to many of the attendees originating from work. The average vehicle occupancy for employees is based on the average vehicle occupancy used in the analysis of a similar large sports and entertainment venue located in Los Angeles County.<sup>7</sup>

Modes of Transportation	Weekday		Weekend	
	Employees	Attendees	Employees	Attendees
Auto	1.5	2.3	1.5	2.5
Shared Mobility (TNC - Uber, Lyft, etc.)	1.5	2.3	1.5	2.5

Source: AECOM 2018

### **IBEC Project With IBEC TDM Program Scenario**

The following provides a summary of the transportation mode share splits and average vehicle occupancy that was applied to the trip generation estimates for the IBEC Project With IBEC TDM Program scenario. The IBEC TDM Program provides transportation services, monetary incentives and project design features that encourage and support the use by employees, event attendees and customers of alternative modes of transportation and the reduction of vehicle trips, including by increasing average vehicle occupancy. The program is designed to be consistent with the requirements and achieve the reduction in vehicle trips set forth in AB 987. In summary, the TDM Program includes the following measures:

- TDM-1: Encourage Alternative Modes of Transportation (Rail, Public Bus and Vanpool)
- TDM-2: Event-Day Shuttle Services
- TDM-3: Encourage Carpools and Zero-Emission Vehicles
- TDM-4: Encourage Active Transportation
- TDM-5: Employee Vanpool Program
- TDM-6: Park-N-Ride Program
- TDM-7: Information Services
- TDM-8: Reduced On-Site Parking Demand
- TDM-9: Event-Day Local Microtransit Service

A more detailed description of the IBEC TDM Program is provided in Attachment C to the AB 987 application. The measures included in the IBEC TDM Program are subject to further refinement and revision, and will be coordinated with the City of Inglewood at the time of project approval, with

<sup>6</sup> Walker Associates, 2018

<sup>7</sup> Fehr & Peers, Addendum to the Environmental Impact Report for the Los Angeles Memorial Sports Arena Redevelopment Project, Appendix K, Vehicle Miles Travelled Memorandum, August 2015



achievement of the 15 % reduction in vehicle trips verified to the City of Inglewood and Office of Planning and Research no later than January 1, 2030.

#### *Mode Share Splits for IBEC Arena Events*

Estimated mode share splits and average vehicle occupancy for the IBEC Project With IBEC TDM Program scenario are based on existing and funded and under construction future transportation network improvements in the vicinity of the Project Site (as discussed in the previous section), location information from basketball ticket purchasers to identify distribution patterns, and knowledge of shared mobility use at other local venues such as the Hollywood Bowl located in the County of Los Angeles.

Ticket sales data provided by the LA Clippers was used to identify spatial distribution patterns and determine potential site access opportunities. 59% of the tickets were sold to attendees within Los Angeles County, 9% within Orange County, 2% in Riverside County, 3% in San Bernardino County, 2% in Ventura County and 25% outside the Southern California region. The following provides a summary of the spatial distribution of the ticket sales data:

- 13% of tickets are sold to season ticket holders who are within 2 transfers on the Metro Bus Rapid Transit and rail systems from the site
- 18% of the tickets are sold to season ticket holders who are within 30-45 minutes of drive of the site during the PM peak period, providing opportunities for provision of minibuses/microtransit services
- 48% of the tickets are sold to season ticket holders who are within 50-75-minute drive of the site during the PM peak hour, providing opportunities for a park-n-ride program.

The transportation mode share percentages for the IBEC Project With IBEC TDM Program scenario were developed based on the data above and the measures included in the IBEC TDM Program. **Table 5** provides a summary of the transportation mode shares under the IBEC Project With IBEC TDM Program scenario. As shown on **Table 5**, 66% of employees and attendees are assumed to drive to the IBEC Project and 34% are assumed to use other modes of transportation during large events such as LA Clippers home games and concert events. During the smaller-scaled events with fewer attendees (*e.g.*, family shows and other non-LA Clippers sporting events), 66% of employees and 82% of attendees are assumed to drive to the IBEC Project and 34% of employees and 18% of attendees are assumed to use other modes of transportation.

In comparing the mode share percentages for the IBEC Project Without IBEC TDM Program scenario and the IBEC Project With IBEC TDM Program scenario, drive percentage for employees decreased from 95% to 66% during all IBEC arena events and other modes of transportation increased from 5% to 34% due to the implementation of the IBEC TDM Program. A similar trend is projected for the attendees, and the drive percentage decreased from 89 % to 66 % during basketball games and concerts and 82%





during other events. For other modes of transportation for the attendees the transportation mode share percentage increased from 11% to 34% during basketball games and concerts and 18% during other events.

<b>Table 5 – IBEC Project With IBEC TDM Program Transportation Mode Shares</b>				
Modes of Transportation	Basketball Games/ Concerts		Other Events	
	Employees	Attendees	Employees	Attendees
Drive % (Auto)	66%	66%	66%	82%
<b>Other Modes of Transportation</b>				
Transit - Rail %	10%	10%	10%	5%
Transit - Public Bus %	10%	2%	10%	2%
Charter Coaches (Park-N-Ride) %	0%	11%	0%	0%
Vanpool (Employees) %	5%	0%	5%	0%
Minibuses/Microtransit %	5%	1%	5%	1%
Shared Mobility (TNC - Uber, Lyft, etc.) %	1%	10%	1%	10%
Walk %	2%	0%	2%	0%
Bike %	1%	0%	1%	0%
<b>Total of Other Modes of Transportation</b>	<b>34%</b>	<b>34%</b>	<b>34%</b>	<b>18%</b>
<b>Total Mode Share Percentage</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Source: AECOM 2018

The IBEC TDM Program provides incentives and promotes other modes of transportation that would decrease automobile vehicle trips. The TDM numbers below refer to the TDM program that would be applied to each transportation mode above. As indicated previously, a complete description of the IBEC TDM Program is provided in Attachment C of the AB 987 application.



The IBEC TDM Program would increase the following modes of transportation:

*Employees/Attendees*

- Transit – Rail: TDM 1, 2, 7
- Transit – Public Bus: TDM 1, 7
- Charter Coaches: TDM 3, 6, 7, 8
- Vanpool: TDM 3, 5, 7
- Minibuses/Microtransit – TDM 3, 7, 8, 9
- Walk – TDM 4, 7
- Bike – TDM 4, 7

*Average Vehicle Occupancy*

In the IBEC Project With IBEC TDM Program scenario, carpooling would be encouraged (TDM 3), therefore an increase in the average vehicle occupancy was applied for the attendees to 2.7 attendees per vehicle during the weekday and 3.0 attendees per vehicle during the weekend. These average vehicle occupancies were developed based on the average vehicle occupancy used in the analysis of a similar large sports and entertainment venue located in Los Angeles County.<sup>8</sup> Table 6 provides a summary of the average vehicle occupancy assumed under the IBEC Project With TDM Program scenario.

Modes of Transportation	Weekday		Weekend	
	Employees	Attendees	Employees	Attendees
Drive (Auto)	1.5	2.7	1.5	3.0
Shared Mobility (TNC - Uber, Lyft, etc.)	1.5	2.7	1.5	3.0

Source: AECOM 2018

*Increased Transit Use for Ancillary Uses*

The IBEC TDM Program Project includes design features that promote alternative travel modes and provides amenities to customers and employees that would further reduce vehicle trips associated with the ancillary uses during non-event days and times.

<sup>8</sup> Fehr & Peers, Addendum to the Environmental Impact Report for the Los Angeles Memorial Sports Arena Redevelopment Project, Appendix K, Vehicle Miles Travelled Memorandum, August 2015

Pursuant to guidelines issued by the City of Los Angeles to determine the effectiveness of certain project features or programs,<sup>9</sup> inclusion of the following features and amenities qualify a project for an up to 10% reduction in vehicle trips:

- On-site transit information kiosk and/or on-site transit pass sales
- On-site facilities such as ATM machines, cafeteria, convenience shopping, showers, and changing rooms
- Pricing for single-occupancy auto parking
- Publicly accessible car share or bike share station
- Bicycle racks or amenities for people travelling by bicycle
- Provision of on-site concierge service to facilitate use of transit, taxis, or private shuttles by employees
- Provision of shuttle service for employees and/or customers

As indicated in the IBEC TDM Program, the IBEC Project would provide majority of these features and amenities to the ancillary uses on non-event times (refer to TDM 1, 3, 4, 5, and 7, above). This analysis adopts a conservative approach regarding trip reduction and applies a 5% reduction to the vehicle trips generated by ancillary uses on non-event days and times.

## **Project Vehicle Trip Comparison**

Based on the assumptions discussed in the previous sections, the resulting vehicle trip generation for the IBEC Project Without IBEC TDM Program scenario and the IBEC Project With IBEC TDM Program scenario is summarized in Table 7 below. The table provides the vehicle trip generation for the arena and each of the ancillary uses during weekdays and weekends.

---

<sup>9</sup> City of Los Angeles, Transportation Impact Study Guidelines, December 2016.

**Table 7 – IBEC Project Vehicle Trip Generation Summary**

<b>IBEC Project Without IBEC TDM Program</b>						
IBEC Project Component	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	91,364	0	57,260	0	148,624
Arena (attendees)	Varies	1,075,784	0	642,664	0	1,718,448
LA Clippers Office	275 EMP	47,084	33,834	0	0	80,918
LA Clippers Practice & Training Facility	54 EMP	9,247	4,861	0	0	14,108
Sports Medicine Clinic	25 TSF	100,922	72,523	0	0	173,445
Community Space	15 TSF	39,426	28,013	0	0	67,439
Full-Service Restaurant/Bar	7 TSF	47,800	49,058	30,282	6,249	133,389
Full-Service Restaurant/Lounge	8 TSF	54,629	56,067	34,607	7,141	152,444
Coffee Shop	5 TSF	139,047	131,728	88,085	16,778	375,638
Quick-Service Restaurant (no drive thru)	4 TSF	102,680	105,383	65,047	13,422	286,532
LA Clippers Team Store	7 TSF	13,279	14,152	9,326	1,998	38,755
Other General Retail & Service	17 TSF	32,248	34,370	22,648	4,853	94,119
Hotel (limited service no restaurant)	150 RM	91,656	65,124	54,873	7,839	219,492
	<b>Total</b>	<b>1,845,166</b>	<b>595,113</b>	<b>1,004,792</b>	<b>58,280</b>	<b>3,503,351</b>
<b>IBEC Project With IBEC TDM Program</b>						
IBEC Project Component	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	65,996	0	41,430	0	107,426
Arena (attendees)	Varies	788,554	0	458,978	0	1,247,532
LA Clippers Office	275 EMP	44,729	32,143	0	0	76,872
LA Clippers Practice & Training Facility	54 EMP	8,785	4,618	0	0	13,403
Sports Medicine Clinic	25 TSF	100,922	68,897	0	0	169,819

**Table 7 – IBEC Project Vehicle Trip Generation Summary**

IBEC Project	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Community Space	15 TSF	39,426	26,612	0	0	66,038
Full-Service Restaurant/Bar	7 TSF	48,863	46,605	30,954	5,937	132,359
Full-Service Restaurant/Lounge	8 TSF	55,843	53,264	35,376	6,784	151,267
Coffee Shop	5 TSF	141,364	125,142	89,553	15,939	371,998
Quick-Service Restaurant (no drive thru)	4 TSF	104,962	100,114	66,493	12,751	284,320
LA Clippers Team Store	7 TSF	13,611	13,444	9,559	1,898	38,512
Other General Retail & Service	17 TSF	33,054	32,652	23,214	4,610	93,530
Hotel (limited service; no restaurant)	150 RM	91,656	65,124	54,873	7,839	219,492
	<b>Total</b>	<b>1,537,765</b>	<b>568,615</b>	<b>810,430</b>	<b>55,758</b>	<b>2,972,568</b>

Source: AECOM 2018

Annual vehicle trip generation for the IBEC Project With IBEC TDM Program scenario was analyzed and compared against the IBEC Project Without IBEC TDM Program scenario. As shown in Table 8, the IBEC Project Without IBEC TDM Program scenario would generate approximately 3,503,351 annual vehicle trips; the IBEC Project With TDM Program scenario would generate approximately 2,972,568 vehicle trips resulting in a 15.151% reduction in vehicle trips achieved as a result of implementation of the IBEC TDM Program.

**Table 8: IBEC TDM Program Vehicle Trip Reduction**

Scenario	Estimated Annual Vehicle Trips				Total
	Weekday		Weekend		
	Days With Events	Days Without Events	Days With Events	Days Without Events	
Project Without TDM	1,845,166	595,113	1,004,792	58,280	3,503,351
Project With TDM	1,537,765	568,615	810,430	55,758	2,972,568
Annual Vehicle Trips Reduced	-307,401	-26,498	-194,362	-2,522	-530,783
<b>% Vehicle Trips Reduced =</b>					<b>-15.151%</b>

Source: AECOM 2018

## Conclusion

This analysis of the vehicle trip generation for the IBEC Project demonstrates that the implementation of the IBEC TDM Program would generate at least 15 percent fewer annual vehicle trips when measured against the IBEC Project without implementation of a transportation demand management program. The IBEC TDM Program includes strategies, incentives and tools that provide opportunities for event attendees and employees to choose other modes of transportation besides automobile. As discussed in more detail above, the IBEC TDM Program includes the following measures to encourage and provide incentives for the use other modes of transportation:

- TDM 1 – Encourage Alternative Modes of Transportation (Rail, Public Bus, and Vanpool)
- TDM 2 – Event-Day Dedicated Shuttle Services
- TDM 3 – Encourage Carpools and Zero-Emission Vehicles
- TDM 4 – Encourage Active Transportation
- TDM 5 – Employee Vanpool Program
- TDM 6 – Park-n-Ride Program
- TDM 7 – Information Services
- TDM 8 – Reduce On-Site Parking Demand
- TDM 9 – Event-Day Local Microtransit Service



As further detailed in Attachment C, the IBEC Project provides several design features in support of other modes of transportation. The IBEC Project design features include the following:

- A dedicated staging area for charter coach bus, minibus/microtransit and TNC (Uber, Lyft, Taxi, etc.) within the parking structure on the Project Site.
- A dedicated shuttle drop off and pick up area that is conveniently and safely located adjacent to the arena.
- Improvements to bus stop facilities.
- Dedicated electrical vehicle spaces with vehicle charging devices in excess of minimum requirements.
- Dedicated parking for car-share vehicles in excess of applicable requirements.
- Dedicated bike parking spaces in excess of minimum requirements as well as a bike valet program to accommodate additional bike parking.

As demonstrated by this analysis, implementation of the combination of the measures and strategies included in the IBEC TDM Program would meet the vehicle trip reduction requirements of AB 987.

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**Attachment E**

**ARB Executive Order**



State of California  
AIR RESOURCES BOARD

Executive Order G- 16- 066

Southern California Association of Governments' (SCAG)  
2016 Sustainable Communities Strategy (SCS)  
ARB Acceptance of GHG Quantification Determination

WHEREAS, SB 375 (Steinberg, Chapter 728, Statutes of 2008), also known as the Sustainable Communities and Climate Protection Act, aims to reduce greenhouse gas (GHG) emissions from passenger vehicle travel through improved transportation and land use planning at the regional scale;

WHEREAS, SB 375 requires each of the State's 18 federally-designated Metropolitan Planning Organizations (MPO), including the Southern California Association of Governments (SCAG), to develop a Sustainable Communities Strategy (SCS), or an Alternative Planning Strategy that meets the regional GHG emissions reduction targets for passenger vehicles set by the Air Resources Board (ARB or Board);

WHEREAS, on September 23, 2010, the Board set targets for the SCAG region of 8 percent per capita reduction by 2020, and 13 percent per capita reduction by 2035 relative to 2005 levels;

WHEREAS, on June 4, 2012, ARB accepted SCAG's quantification of greenhouse gas emissions for its first SCS, adopted by the SCAG Regional Council on April 4, 2012;

WHEREAS, in preparation for its 2016 SCS, known as *The 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life*, SCAG staff engaged the public by holding public workshops and community meetings between March 2015 and January 2016;

WHEREAS, in December 2015, SCAG published its draft 2016 RTP/SCS, which was available for public review through February 1, 2016;

WHEREAS, on April 7, 2016, SCAG adopted the final 2016 RTP/SCS with a determination that the SCS would achieve the region's GHG targets with an 8 percent per capita reduction by 2020 and an 18 percent per capita reduction by 2035;

WHEREAS, SCAG submitted the final 2016 SCS to ARB on April 8, 2016, as required by California Government Code section 65080, subdivision (b)(2)(J)(ii);

WHEREAS, ARB staff performed a technical evaluation of the 2016 SCS based on ARB's technical methodology for evaluating an SCS (published in July 2011);

WHEREAS, ARB staff's evaluation showed SCAG used technical methodologies that would accurately quantify GHG reductions from the 2016 SCS;

WHEREAS, ARB staff's evaluation showed SCAG's 2016 SCS, if implemented, would meet the GHG targets that the Board established for the region for 2020 and 2035;

WHEREAS, ARB staff's technical review of SCAG's GHG reduction determination is included in Attachment A, "Technical Evaluation of the Greenhouse Gas Emissions Reduction Quantification for the Southern California Association of Governments' SB 375 Sustainable Communities Strategy" dated June 2016;

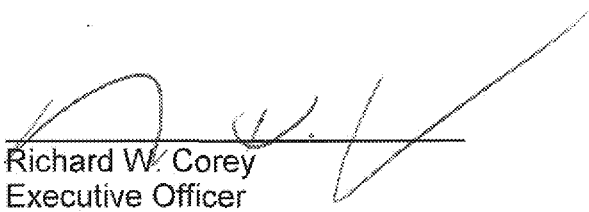
WHEREAS, California Government Code section 65080, subdivision (b)(2)(J)(ii) calls for ARB to accept or reject the MPO's determination that the strategy submitted would, if implemented, achieve the GHG emission reduction targets established by the Board;

WHEREAS, the California Health and Safety Code sections 39515 and 39516 delegate to the Board's Executive Officer the authority to act on behalf of the Board in this manner;

NOW, THEREFORE, BE IT RESOLVED that under California Government Code section 65080, subsection (b)(2)(J)(ii), the Executive Officer hereby accepts SCAG's determination that the SCS adopted by SCAG's Regional Council on April 7, 2016, would, if implemented, achieve the 2020 and 2035 GHG emission reduction targets established by ARB.

NOW, THEREFORE, IT IS ORDERED that ARB staff is directed to forward this executive order to the SCAG Executive Director.

Executed at Sacramento, California this 28<sup>th</sup> day of June 2016.

  
Richard W. Corey  
Executive Officer

**Attachment A:** Technical Evaluation of the Greenhouse Gas Emissions Reduction Quantification for the Southern California Association of Governments' SB 375 Sustainable Communities Strategy, June 2016.

## **Attachment F**

### **Letter from Project Sponsor and City of Inglewood**





# CITY OF INGLEWOOD

*Office of the City Manager*



October 24, 2018

Brandt A. Vaughan, Manager  
Murphy's Bowl, LLC  
P.O. Box 1558  
Bellevue, WA 98009-1558

Re: Acknowledgement of Murphy's Bowl, LLC's (LA Clippers) Intent to Seek Certification Under Assembly Bill 987

Dear Mr. Vaughan:

The City of Inglewood (the "City"), as lead agency for the proposed Inglewood Basketball and Entertainment Center project (the "Project") in Inglewood, California, acknowledges that it has been notified of Murphy's Bowl, LLC's intent to apply for the certification of the Project for CEQA streamlining under Assembly Bill 987 ("AB 987"), Public Resources Code Section 21168.6.8, as effective on January 1, 2019.

The City further acknowledges that, as part of the certification process, Murphy's Bowl, LLC is obligated to enter into an agreement with the City establishing the requirements of Public Resources Code sections 21168.6.8(b)(5), (6), and (7), and that the certification under AB 987 entitles the Project to streamlined environmental review and requires the lead agency to prepare an administrative record in accordance with the requirements of Public Resources Code section 21168.6.8(g).

As the City Manager, I am authorized to make the above acknowledgement on behalf of the City.

Sincerely,

Artie Fields  
City Manager

October 22, 2018

Brandt A. Vaughan, Manager  
Murphy's Bowl LLC  
P.O. Box 1558  
Bellevue, WA 98009-1558

Artie Fields, City Manager  
City of Inglewood  
1 Manchester Boulevard  
Inglewood, CA 90301

Subject: Inglewood Basketball and Entertainment Center  
AB 987 Application for Certification for CEQA Streamlining  
Acknowledgement of Obligations under Public Resources Code Sections  
21168.6.8(b)(5), (6), and (7)

Dear Mr. Fields:

I write on behalf of Murphy's Bowl LLC (the "Applicant"), which proposes to develop that certain Inglewood Basketball and Entertainment Center project located on approximately 28 acres in the vicinity of the intersection of West Century Boulevard and South Prairie Avenue in Inglewood, California (the "Project").

This letter confirms the Applicant's acknowledgment and agreement, in connection with the City of Inglewood's (the "City's") review of the Project, in its capacity as the lead agency, with respect to the obligations described in the following paragraphs, all of which are conditions of qualifying for the Project's certification for streamlined California Environmental Quality Act ("CEQA") review by the judiciary under Assembly Bill 987 ("AB 987").

Accordingly, and as required by Public Resources Code section 21168.6.8(b)(5), by this letter the Applicant is entering into a binding and enforceable agreement that all mitigation measures required pursuant to CEQA and any other environmental measures required by Public Resources Code section 21168.6.8 to certify the Project under AB 987 shall be made conditions of approval of the Project, that these conditions will be fully enforceable by the City's Planning Division or other agency designated by the City, that all mitigation measures required pursuant to CEQA and any other environmental measures required to certify the Project under AB 987 will be monitored and enforced by the City for the life of the obligation, and that Applicant will submit to the City an annual status report on the implementation of the mitigation measures required pursuant to CEQA and any other environmental measures required to certify the Project under AB 987.

As required by Public Resources Code section 21168.6.8(b)(6), the Applicant agrees to pay any additional costs incurred by the courts in hearing and deciding any case subject to Public




Resources Code section 21168.6.8, including payment of the costs for the appointment of a special master if deemed appropriate by the court, in a form and manner specified by the Judicial Council, as provided in the Rules of Court adopted by the Judicial Council pursuant to AB 987.

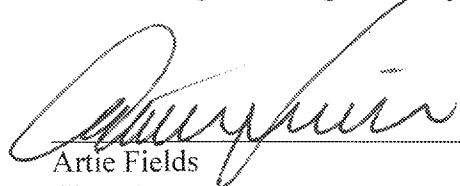
As required by Public Resources Code section 21168.6.8(b)(7), the Applicant agrees to pay the costs of preparing the record of proceedings for the Project, concurrent with review and consideration of the Project pursuant to CEQA, in a form and manner specified by the City.

In order to comply with CEQA and give the public and decision-makers the opportunity to be fully aware of the environmental consequences of the Project, the parties to this letter agreement acknowledge that the City has no obligation to approve, and the Applicant has no obligation to develop, the Project unless and until the parties have negotiated, executed and delivered mutually acceptable agreements based upon information produced from the CEQA environmental review process and any other public review and hearing processes, subject to all applicable governmental approvals. The City retains the absolute, sole discretion to: (1) modify the Project as the City may, in its sole discretion, deem necessary to comply with CEQA; (2) select other feasible alternatives and/or impose mitigation measures to avoid or reduce significant environmental impacts; (3) balance the benefits of the Project against any significant environmental impacts prior to taking final actions, if such significant impacts cannot otherwise be avoided; and/or (4) determine not to proceed with the Project.

Murphy's Bowl LLC,  
a Delaware limited liability company

  
By: Brandt Vaughan  
Its: Manager

Acknowledged and Agreed to-by:

  
Artie Fields  
City Manager



**Attachment G**

**IBEC Project GHG Analysis**



**ATTACHMENT G  
GREENHOUSE GAS ANALYSIS**

*Prepared by:*

AECOM  
401 West A Street, Suite 1200  
San Diego, California 92101

October 31, 2018



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# TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
SECTION 1 INTRODUCTION.....	1
1.1 Project Description.....	1
1.1.1 Alternate Prairie Access Variant .....	2
1.1.2 West Century Boulevard Pedestrian Bridge Variant.....	3
1.1.3 Existing Conditions .....	3
1.2 GHG Emissions Background .....	3
SECTION 2 METHODOLOGY AND RESULTS .....	5
2.1 Baseline Conditions Methodology .....	6
2.1.1 Energy Sources .....	8
2.1.2 Mobile Sources.....	10
2.1.3 Solid Waste .....	12
2.1.4 Water and Wastewater .....	13
2.1.5 Area Sources.....	13
2.1.6 Baseline Conditions Results .....	14
2.2 IBEC Project Operational Emissions Methodology.....	16
2.2.1 Energy .....	17
2.2.2 Mobile Sources.....	18
2.2.3 Waste .....	19
2.2.4 Water and Wastewater .....	19
2.2.5 Area Sources.....	20
2.2.6 Stationary Sources .....	20
2.2.7 IBEC Project Operational Emissions Results.....	20
2.3 IBEC Project Construction Emissions .....	21
2.3.1 Construction .....	21
2.3.2 Construction Results.....	22
SECTION 3 GHG EMISSIONS RESULTS.....	23
3.1 Emission Results .....	23
3.1.1 IBEC Project Emission Results.....	23
3.1.2 IBEC Project Variants Emission Results .....	26
3.2 Net New Project Emissions and AB 987 Requirements .....	29
3.2.1 IBEC Project Net New Emissions .....	30
3.2.2 IBEC Project Variants Net New Emissions .....	31
3.3 AB 987 Summary of Reductions .....	31

---

3.4	Measures for Offsetting Net Increase GHG Emissions.....	33
3.4.1	LEED Gold Certification.....	33
3.4.2	IBEC TDM Program.....	33
3.4.3	Potential Co-Benefits from NO <sub>x</sub> and PM <sub>2.5</sub> Reductions per AB 987 .....	34
3.4.4	Carbon Credits .....	34
SECTION 4 REFERENCES.....		36

APPENDIX A. CalEEMod and Greenhouse Gas Modeling Data

**LIST OF TABLES**

<u>Table</u>		<u>Page</u>
1	IBEC Project Land Uses .....	2
2	Existing On-Site Buildings Operational Emissions .....	14
3	Existing LA Clippers Facilities (LA Clippers Team Offices and LA Clippers Training Center) .....	15
4	Alternate Future Use of LA Clippers Team Offices .....	15
5	Existing NBA Games .....	15
6	Market-Shifted Events .....	16
7	Baseline Emissions Summary .....	16
8	IBEC Project Operational GHG Emissions – 2024.....	21
9	Construction-Related GHG Emissions.....	22
10	IBEC Project - Net GHG Emissions by Year without GHG Reduction Measures .....	24
11	IBEC Project - Net GHG Emissions by Year with GHG Reduction Measures .....	25
12	IBEC Project Variants - Net GHG Emissions by Year without GHG Reduction Measures .....	27
13	IBEC Project Variants - Net GHG Emissions by Year with GHG Reduction Measures .....	28
14	IBEC Project Net New Emissions Summary .....	30
15	IBEC Project Variants Project Net New Emissions Summary .....	31
16	IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary .....	32
17	IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary .....	33



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## SECTION 1 INTRODUCTION

This memorandum, Attachment G of the AB 987 application for the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project), provides a summary of estimated greenhouse gas (GHG) emissions for the IBEC Project. It has been prepared to demonstrate compliance with the AB 987 requirements regarding GHG emissions.

### 1.1 PROJECT DESCRIPTION

The project sponsor proposes the construction of a new basketball and entertainment center and related development in the City of Inglewood, California to serve as the new home of the LA Clippers. The proposed IBEC Project includes a new arena, practice and training facility, and office space for the LA Clippers, as well as ancillary development including a sports medicine clinic and retail, restaurant, community space and hotel uses. The multipurpose arena would be used for LA Clippers home basketball games and as a performance venue that could be configured for other events of various size, including concerts, other sporting events, family shows, conferences, and civic and community events.

The LA Clippers currently play their home basketball games at the Staples Center located in downtown Los Angeles. The LA Clippers team offices are also located in downtown Los Angeles, and the LA Clippers Training Center team practice and training facility is located in the Playa Vista neighborhood of Los Angeles. Upon completion of the IBEC Project, all LA Clippers home basketball games would be played at the new arena, and the team offices and practice and athletic training facilities would relocate to the LA Clippers new home. In addition, the proposed IBEC Project includes a sports medicine clinic, community space, and ancillary retail, dining, and hotel uses, as shown in Table 1.

It is expected that the LA Clippers would host up to five preseason games, 41 regular season games, and an average of three postseason games each NBA season. Other events such as concerts, family shows, conventions and corporate or civic events, and non-LA Clippers sporting events would take place in the proposed arena throughout the year.

**Table 1. IBEC Project Land Uses**

<b>Land Use</b>	<b>Size</b>
Arena	18,000 fixed seats 500 temporary floor seats (approximately 915,000 SF)
LA Clippers Offices	71,000 SF
LA Clippers Team Practice & Training Facility	85,000 SF
Sports Medicine Clinic	25,000 SF
Community Space	15,000 SF
Full-Service Restaurant/Bar	7,000 SF
Full-Service Restaurant/Lounge	8,000 SF
Coffee Shop	5,000 SF
Quick-Service Restaurant	4,000 SF
LA Clippers Team Store	7,000 SF
Other General Retail & Services	17,000 SF
Hotel	150 Rooms

Notes: SF = square feet

In addition to the IBEC Project, two variants are also currently under consideration to allow for flexibility in the development of the project, collectively referred to in this analysis as the IBEC Project Variants and briefly described below.

As required by AB 987, the IBEC Project include implementation the IBEC Transportation Demand Management Program (IBEC TDM Program), a program of measures and strategies designed to achieve a 15% reduction in vehicle trips for the IBEC Project as compared to the IBEC Project absent a transportation demand management program, as further described in the AB 987 application and attachments.

### **1.1.1. Alternate Prairie Access Variant**

The Alternate Prairie Access Variant contemplates the potential acquisition by the project sponsor of two additional parcels adjacent to the proposed IBEC Project Site within the “project area” defined in Public Resources Code Section 21168.6.8(a)(5). The Alternate Prairie Access Variant would allow for a different configuration for vehicular access from South Prairie Avenue and minor alterations to the design of the main pedestrian plaza and the alignment of the arena structure. The Alternate Prairie Access Variant would only be implemented if the two additional parcels included in this variant are made available for sale by the current property owners and are acquired by the project sponsor.

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### **1.1.2 West Century Boulevard Pedestrian Bridge Variant**

The West Century Boulevard Pedestrian Bridge Variant would allow for the construction of a second pedestrian bridge, across West Century Boulevard for pedestrian access to the IBEC Project from the Los Angeles Sports and Entertainment District located to the north of West Century Boulevard. The West Century Boulevard Pedestrian Bridge Variant could be incorporated into the development of either the IBEC Project or the Alternate Prairie Access Variant.

Each project variant would include the same number of parking and loading spaces, mechanical equipment, general vehicular circulation, streetscape improvements, and sustainability features as the IBEC Project. The IBEC Project Variants would have the same program and size of development for the proposed buildings as the IBEC Project, and both would involve implementation of the IBEC TDM Program as described in the AB 987 application.

### **1.1.3 Existing Conditions**

The LA Clippers currently play their home basketball games at the Staples Center arena located in downtown Los Angeles. The existing LA Clippers' Team Offices are currently located on Flower Street within two blocks of the Staples Center. The team's current practice and athletic training facilities are known as the LA Clippers Training Center, located in the Playa Vista neighborhood of Los Angeles. Upon completion of the IBEC Project in 2024, all LA Clippers home basketball games and operations would be relocated to the IBEC Project Site.

Most of the parcels that make up the Project Site are currently vacant or underutilized. The six currently developed parcels within the IBEC Project Site that would be redeveloped include a fast-food restaurant, a hotel, a retail store, warehouse and light manufacturing facilities, and a groundwater well and related facilities. The Alternate Prairie Access Variant would include two additional parcels that currently are developed with a single-family home and a three-unit residential use, if made available for sale by the current property owners and are acquired by the project sponsor, resulting in a total of up to eight buildings that may be removed under that variant. .

## **1.2 GHG EMISSIONS BACKGROUND**

Certain gases in the earth's atmosphere, classified as greenhouse gases or GHGs, play a critical role in determining the earth's surface temperature. GHGs are present in the atmosphere naturally, are released by natural and anthropogenic sources, and are formed from secondary reactions taking place in the atmosphere. Natural sources of GHGs include the respiration of humans, animals, and plants; decomposition of organic matter; and evaporation from the oceans. Anthropogenic sources of GHG emissions include the combustion of fossil fuels, waste

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treatment, and agricultural processes. The following GHGs are widely accepted as the principal contributors to human-induced global climate change and are relevant to this analysis:

- Carbon dioxide (CO<sub>2</sub>)
- Methane (CH<sub>4</sub>)
- Nitrous oxide (N<sub>2</sub>O)

Emissions of CO<sub>2</sub> are byproducts of fossil fuel combustion. CH<sub>4</sub> is the main component of natural gas, and CH<sub>4</sub> emissions are associated with agricultural practices and landfills. N<sub>2</sub>O emissions result from industrial processes, vehicle emissions, and agricultural practices.

Global warming potential (GWP) is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to CO<sub>2</sub>. The GWP of a GHG is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time (i.e., lifetime) that the gas remains in the atmosphere (“atmospheric lifetime”). The reference gas for GWP is CO<sub>2</sub>; therefore, CO<sub>2</sub> has a GWP of 1. The other main GHGs that have been attributed to human activity include CH<sub>4</sub>, which has a GWP of 28, and N<sub>2</sub>O, which has a GWP of 265 (IPCC 2013). For example, 1 ton of CH<sub>4</sub> has the same contribution to the greenhouse effect as approximately 28 tons of CO<sub>2</sub>. GHGs with lower emissions rates than CO<sub>2</sub> may still contribute to climate change, because they are more effective at absorbing outgoing infrared radiation than CO<sub>2</sub> (i.e., high GWP). The concept of CO<sub>2</sub>-equivalents (CO<sub>2</sub>e) is used to account for the different GWP potentials of GHGs to absorb infrared radiation.

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## SECTION 2 METHODOLOGY AND RESULTS

In order to meet the requirements of AB 987, the following emissions scenarios were analyzed:

- **Baseline operational annual emissions:** Annual operational GHG emissions produced by existing emissions sources and activities against which the proposed project's GHG emissions will be compared;
- **Net new IBEC Project construction and operational annual emissions without GHG Reduction Measures:** Both direct and indirect net new GHG emissions associated with the project's demolition, construction, and operation, including emissions from the proposed project's projected energy use and transportation-related emissions, without accounting for the implementation of the IBEC TDM Program or GHG reduction measures included as project design features and/or features within the Leadership in Energy and Environmental Design (LEED) Gold strategy (collectively, the "GHG Reduction Measures"); and
- **Net new IBEC Project construction and operational emissions with GHG Reduction Measures:** The proposed project's net new emissions after accounting for implementation of the GHG Reduction Measures.

This GHG analysis quantifies emissions for the existing LA Clippers games at the Staples Center, existing uses at the downtown LA Clippers' Team Offices, the team's existing LA Clippers Training Center in Playa Vista, and the portion of non-NBA events anticipated to occur at the IBEC Project arena instead of other venues in the Los Angeles region (i.e., market-shifted non-NBA events) in order to calculate the net GHG emissions associated with the IBEC Project and IBEC Project Variants. This analysis assumes that after the LA Clippers Team Offices relocate to the IBEC Project Site, the vacated existing office space would be used by a different, unknown office tenant in the future.

Construction emissions for the IBEC Project and IBEC Project Variants were estimated for all construction years from 2021 through June 2024. Construction activities would generate GHG emissions associated with heavy-duty construction equipment, material-hauling trucks, and construction worker vehicles.

The operational life of the IBEC Project is assumed to be 30 years, consistent with South Coast Air Quality Management District guidance.<sup>1</sup> Therefore, operational emissions for the IBEC Project and IBEC Project Variants were estimated from July 2024 through 2054. Operational

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<sup>1</sup> South Coast Air Quality Management District, *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold* at p. 3-16 (Oct. 2008).

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emission sources include on-road motor vehicles (mobile), energy (electricity and natural gas), water and wastewater, solid waste, area, and stationary (generators). Mobile source emissions would be generated by vehicle trips from attendees/customers and employees. Energy sources would include both electricity and natural gas consumption. Natural gas combustion for space and water heating is a direct area source of GHG emissions. Indirect emissions sources include emissions from electricity generation at off-site utility providers.

The IBEC Project and IBEC Project Variants would involve the relocation of an existing municipal groundwater well within the Project Site. As the well would be relocated and continue to operate, this analysis does not estimate operational emissions associated with the well.

Consumption of water and generation of wastewater would also result in indirect GHG emissions because of the electricity consumption associated with the off-site conveyance, distribution, and treatment of water and wastewater. Solid waste disposal from operation of the IBEC Project and IBEC Project Variants would result in indirect, off-site GHG emissions. Area-source emissions would be associated with activities such as maintenance of landscaping and grounds. Operation of emergency generators for testing and maintenance would also be a source of direct stationary source emissions.

## **2.1 BASELINE CONDITIONS METHODOLOGY**

Baseline annual emissions include the operational emissions from the existing LA Clippers Team Offices and the LA Clippers Training Center (collectively referred to as the LA Clippers Facilities), LA Clippers games at the Staples Center, market-shifted non-NBA events, and the existing on-site structures that would be removed and replaced with construction of the IBEC Project and IBEC Project Variants.

This analysis assumes that an annual average of 5 pre-season, 41 regular season, and 3 post-season LA Clippers home games would be hosted at the IBEC Project arena. The annual average number of post-season games was based on the average number of post-season home games per NBA team per year. This analysis conservatively assumes that half of the non-NBA game events (e.g., concerts, family shows, non-NBA sports games, etc.) anticipated to occur at the IBEC Project arena would be new events that would not otherwise occur in the Los Angeles area, and half of such events would have otherwise occurred at other venues in the Los Angeles area, but would be relocated at the IBEC Project, the latter of which are referred to as market-shifted events in this analysis.

The existing LA Clippers Facilities consist of the LA Clippers Team Offices, which are located at 1212 South Flower Street, Los Angeles, California, and the existing LA Clippers Training Center, which is located at 6854 South Centinela Avenue in Los Angeles, California. Upon completion of the IBEC Project, these uses would be relocated to the IBEC Project. The existing

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Team Offices and LA Clippers Training Center comprise approximately 19,860 and 42,691 sq. ft. of gross floor space, respectively.

Given the unique design and space allocation of the existing LA Clippers Training Center, the potential future use of this facility or site after completion of the IBEC Project is unknown. It would be speculative to assume what type of use might occupy this facility in the future. It is also speculative to create assumptions about what type of renovation or tenant improvements might be necessary to reuse this facility in the future or whether the improvements may be demolished so that a new building or buildings could be constructed on this site. Thus, the existing emissions from operations of the LA Clippers Training Center are included in the baseline conditions without assumptions about the future use of this facility and site.

Given the location of the current LA Clippers Team Offices in downtown Los Angeles, the existence of other tenants within the same building, and general commercial real estate practices, it is reasonable to assume that the office space currently occupied by the LA Clippers Team Offices would be leased to a new office tenant after the LA Clippers relocate to the IBEC Project Site. As it is not possible to predict the employment density or other characteristics of an unknown potential future tenant, California Emissions Estimator Model (CalEEMod) model defaults are used to represent a general office reuse of the current LA Clippers Team Office space in the future. Therefore, this analysis calculates the total emissions associated with the existing LA Clippers Facilities, and then subtracts the emissions calculated for a general office use of the current LA Clippers Team Office space, in order to determine the baseline conditions for the existing LA Clippers Facilities.

Development of the IBEC Project would first require the acquisition of the properties located within the IBEC Project Site, including several parcels that are currently developed with existing on-site uses. Existing buildings within the IBEC Project Site include a 16,806-sq. ft. hotel, 1,118-sq. ft. fast food restaurant, 28,809-sq. ft. light industrial building, and a 1,134-sq. ft. commercial building, and a 6,321-sq. ft. light industrial building. The Alternate Prairie Access Variant would involve two additional parcels developed with a 1,628-sq. ft. three-unit residential building and a 795-sq. ft. single-family residence, if made available for sale by the current property owners and acquired by the project sponsor. All structures on properties acquired for the IBEC Project would be removed prior to start of construction. Emissions associated with the existing buildings that would be removed prior to construction of the IBEC Project or the Alternate Prairie Access Variant were included in the baseline conditions, with the exception of the 6,321-sq. ft. light industrial building that was vacant at the time that the Notice of Preparation for the IBEC Project was published in February 2018.

Operational emissions associated with the 2018 baseline condition include emissions from energy (electricity and natural gas), on-road motor vehicles (mobile), solid waste, water and wastewater, and area sources. Detailed methodology for each emission source is presented below. Existing emissions were estimated using the California Emissions Estimator Model

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(CalEEMod), Version 2016.3.2, and off-model spreadsheet calculations using ARB-approved tools, such as EMFAC 2014.

### **2.1.1 Energy Sources**

#### **Electricity and Natural Gas**

For electricity-related GHG emissions, emission factors specific to Southern California Edison (SCE) and the Los Angeles Department of Water and Power (LADWP), as appropriate, for the existing building locations, were used for the analysis. The SCE- and LADWP-specific emission factors account for the electricity portfolio mix used to produce power for the existing uses and compliance with the Renewables Portfolio Standard (RPS) for the year 2018.

#### **Existing On-Site Buildings**

Baseline operational GHG emissions associated with existing buildings at the IBEC Project Site and IBEC Project Variants sites would include emissions associated with electricity and natural gas consumption. GHG emissions associated with electricity and natural gas consumption were estimated using CalEEMod, Version 2016.3.2 for Title 24 and Non-Title 24 uses. Electricity consumption values within CalEEMod are based on the CEC-sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey studies. The existing on-site buildings were built in the 1920s to the 1980s; thus, the historical energy intensity values provided within CalEEMod were used (historical default values reflect 2005 Title 24 standards). This is considered a conservative adjustment because the existing buildings were built prior to implementation of the 2005 Title 24 standards and thus would have been built to a less stringent energy standard.

The GHG intensity value for SCE in CalEEMod was adjusted to reflect the 2018 SCE GHG intensity value of 524.70 pounds CO<sub>2</sub>e per MWh.

#### **Existing LA Clippers Facilities**

Baseline operational GHG emissions associated with the existing LA Clippers Facilities include emissions associated with electricity and natural gas consumption. GHG emissions associated with electricity and natural gas consumption for the LA Clippers Team Offices were estimated using CalEEMod, Version 2016.3.2 for Title 24 and Non-Title 24 uses. Energy consumption values for a typical office building within CalEEMod are based on the CEC-sponsored California Commercial End Use Survey (CEUS). The LA Clippers Team Office is located within a building that was built in 1967, thus, the historical default energy intensity values provided within CalEEMod were used (historical default values reflect 2005 Title 24 standards). This is considered a conservative adjustment because the existing Team Offices building was built prior to implementation of the 2005 Title 24 standards and thus would have been built to a less



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stringent energy standard. The GHG emissions associated with electricity and natural gas consumption for the existing LA Clippers Training Center were based on actual energy consumption reported in LADWP and Southern California Gas Company energy bills.

As stated above, to account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis estimates energy-related emissions generated by a future office tenant. Energy consumption values for the potential future tenant of the office space were based on CalEEMod defaults for historical energy intensity values.

The GHG intensity value for LADWP in CalEEMod was adjusted to reflect RPS goals and the latest available data. Based on conversations with LADWP staff, LADWP's GHG intensity in 2016 was approximately 837.96 pounds CO<sub>2</sub>e per MWh (LADWP 2016).

#### Existing LA Clippers Games at Staples Center

Baseline operational GHG emissions associated with existing LA Clippers games at the Staples Center would also include emissions associated with electricity and natural gas consumption. GHG emissions associated with electricity and natural gas consumption for the existing LA Clippers games were estimated using the historical default energy intensity values provided within CalEEMod for the arena land use and the square footage of the Staples Center. This analysis conservatively assumes that the minimum annual number of LA Clippers games that occur at the Staples Center (44 events) account for approximately 21 percent of the average number of events and professional sports games that occur at the Staples Center on an annual basis. Thus, energy-related emissions associated with the Staples Center were scaled by 21 percent to account for the existing LA Clippers NBA home games.

The GHG intensity value for LADWP in CalEEMod was adjusted to reflect the 2016 GHG intensity value of 837.96 pounds CO<sub>2</sub>e per MWh.

#### Market-Shifted Events

Baseline operational GHG emissions associated with the market-shifted events that would relocate to the IBEC Project Site also include emissions associated with electricity and natural gas consumption; however, it would be speculative to include the emissions associated with any specific market-shifted event or venue as part of the baseline conditions. In order to estimate the existing operational emissions associated with market-shifted events, an average GHG emissions rate per attendee was developed based on the annual average attendance for sports and entertainment events hosted at three major existing venues in the Los Angeles area, the Staples Center, the Honda Center, and The Forum. Existing energy-related emissions at The Forum and the Staples Center were based on default energy intensity values provided within CalEEMod for the arena land use and square footage of the two venues. Energy-related emissions at the Honda Center were based on actual natural gas and electricity consumption

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data (City of Anaheim 2012). For the emissions at the Honda Center, the CO<sub>2</sub>e intensity value for Anaheim Public Utilities was estimated to be 1,203.54 pounds per MWh based on the Anaheim Public Utilities 2017 power content label (City of Anaheim 2017). For the emissions at the Staples Center, the GHG intensity value for LADWP in CalEEMod was adjusted to reflect the 2016 GHG intensity value of 837.96 pounds CO<sub>2</sub>e per MWh. For the emissions at the Forum, the GHG intensity rate was adjusted to reflect SCE's GHG intensity of approximately 524.70 pounds CO<sub>2</sub>e per MWh. The average GHG emissions rate per attendee was then multiplied by 50 percent of the total annual anticipated attendees for non-NBA events at the IBEC Project to represent the energy related GHG emissions associated with market-shifted events.

## **2.1.2 Mobile Sources**

### **Existing On-Site Buildings**

Mobile source emissions for the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant were estimated using default trip rates provided within CalEEMod. CalEEMod uses trip rates based on the Institute of Transportation Engineers (ITE) 9<sup>th</sup> Edition average trip rates for the respective land use categories. Trip lengths for the associated vehicle trips are CalEEMod defaults, which are based on data collected for Los Angeles County. The vehicle emission factors in CalEEMod are based on EMFAC2014. EMFAC2017 is publicly available; however, EMFAC2014 is still the currently United States Environmental Protection Agency-approved version of EMFAC.

### **Existing LA Clippers Facilities**

Mobile source emissions for the existing LA Clippers Facilities were based on the total number of employees (329 employees) and vehicle emission factors provided in EMFAC2014. The default fleet mix in EMFAC2014 was adjusted to account for the type of vehicles that would travel to the existing LA Clippers Facilities. On-road motor vehicles to the facilities would primarily be passenger vehicles (i.e., light-duty autos and light-duty trucks), and so the assumed percentage of passenger vehicle trips is higher than the default County of Los Angeles average.

The mode share split assumptions for the employees at the existing LA Clippers Facilities were based on the 2017 Southern California Association of Governments (SCAG) Local Profiles Report (SCAG 2017). Based on the SCAG profiles, it was assumed approximately 71 percent of the employees drive alone (single-occupancy personal vehicle trips), 10 percent carpool, 12 percent utilize public transit, 4 percent walk, and 4 percent bike to work. Vehicle trip lengths were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles.

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To account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis estimates mobile source emissions generated by a future office tenant. Mobile source emissions for the potential future tenant of the office space were based on CalEEMod defaults for trip generation, which are based on ITE 9<sup>th</sup> Edition average trip rates. Trip lengths for the associated vehicle trips are CalEEMod defaults and are based on data collected for Los Angeles County.

#### Existing LA Clippers Games at Staples Center

Mobile source emissions for the existing LA Clippers games at the Staples Center were based on the average number of attendees, employees, and event schedule. The mode share split assumptions for the attendees to the LA Clippers games were based on responses to a survey of LA Clippers basketball game attendees at the Staples Center. The mode split for the employees was derived from the 2017 SCAG Local Profiles Report (SCAG 2017). Vehicle trip lengths for employees were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles. The trip length for attendees was based on the weighted average trip distance of 19.38 miles for LA Clippers game attendees at the Staples Center derived from ZIP Code data provided for LA Clippers home game ticket purchases within the greater Los Angeles region.

GHG emissions were calculated using EMFAC2014 using vehicle emission factors for the year 2018. As described above, the fleet mix was adjusted to account for the vehicle trips that would be applicable to the trips to the Staples Center (i.e., light-duty autos and light-duty trucks).

#### Market-Shifted Events

Mobile source emissions for the existing market-shifted events from other venues in which those events otherwise would be assumed to occur were based on the average number of attendees, employees, and event schedule anticipated for non-NBA game events at the IBEC Project arena. The mode share split assumptions for the attendees were based on survey data from LA Clippers game attendees. The mode split for the employees was derived from the 2017 SCAG Local Profiles Report (SCAG 2017). Vehicle trip lengths for employees were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles. The trip length for attendees was assumed to be the same as the weighted average 19.38-mile trip distance for LA Clippers game attendees. A review of trip lengths reported in environmental documents prepared for other event centers in the Los Angeles region was conducted and showed longer average trip lengths for sporting and entertainment events at other venues, ranging from 20.7 miles (Banc of California Stadium) to 31.1 miles (Honda Center). Using the average trip length and mode split assumptions for an LA Clippers game at Staples Center provides a conservative estimate of baseline mobile emissions, as attendee trips to other venues in the Los Angeles region such as the Honda Center would be

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longer and fewer attendees would use alternative transportation than attendees traveling to the Staples Center.

GHG emissions were calculated using EMFAC2014 using vehicle emission factors for the year 2018. As described above, the fleet mix was adjusted to account for the vehicle trips that would be applicable to the attendee trips to the existing event centers (i.e., light-duty autos and light-duty trucks).

### **2.1.3 Solid Waste**

#### Existing On-Site Buildings and LA Clippers Facilities

GHG emissions associated with solid waste disposal at the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant, and for the existing LA Clippers Facilities were based on default waste generation rates provided in CalEEMod. To account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis also estimates solid waste emissions generated by a future office tenant using CalEEMod defaults waste generation rates. Waste disposal rates by land use and overall composition of municipal solid waste in California is primarily based on CalRecycle data. GHG emissions from solid waste disposal are based on Intergovernmental Panel on Climate Change (IPCC) methods using the degradable organic content of waste.

#### Existing LA Clippers Games at Staples Center

GHG emissions generated from solid waste disposal associated with the existing LA Clippers games were based on the annual waste generation rate of 1.29 tons per 1,000 sq. ft. per year based on 2012 solid waste generation data for a similar multipurpose arena. (City of Sacramento 2013). As discussed above for energy sources, this analysis conservatively assumes LA Clippers games at the Staples Center account for approximately 21 percent of the emissions.

#### Market-Shifted Events

Solid waste emissions associated with market-shifted events from other venues were estimated using the same approach as for energy-related emissions. A solid waste generation rate of 1.29 tons per 1,000 sq. ft. per year was applied to the square footages for comparable venues in the Los Angeles area and used to generate an estimated GHG emissions rate per attendee. The solid waste-related GHG emissions rate was then multiplied by half of the total number of anticipated attendees for non-NBA basketball game events at the IBEC Project to represent the emissions for market-shifted events.

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## **2.1.4 Water and Wastewater**

### **Existing On-Site Buildings and LA Clippers Facilities**

GHG emissions are generated from the use of energy to supply, distribute, and treat water and wastewater. Water-related energy intensities (i.e., kilowatt-hour per gallon of water) in CalEEMod are based on the California Energy Commission's Refining Estimates of Water-Related Energy Use in California. Proposed annual water demands for the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant, as well as the existing LA Clippers Facilities were based on CalEEMod default data for indoor and outdoor water use. To account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis also estimates water and wastewater emissions generated by a future office tenant using CalEEMod defaults for water demands.

### **Existing LA Clippers Games at Staples Center**

Similar to the on-site buildings, annual water demands for the arena were based on CalEEMod default data for indoor and outdoor water use. Emissions associated with the LA Clippers games at the Staples Center were scaled by 21 percent to account for the existing emissions.

### **Market-Shifted Events**

Water-related emissions associated with market-shifted events from venues in which those events otherwise would be assumed to occur were estimated using a similar approach as for solid waste and energy-related emissions. Water consumption for the other venues was based on CalEEMod defaults for a typical arena land use and used to estimate a GHG emission rate per attendee. The water-related GHG emissions rate was then multiplied by the anticipated attendance at half of the non-NBA events at the IBEC Project to represent the existing emissions from market-shifted events.

## **2.1.5 Area Sources**

### **Existing On-Site Buildings**

Maintenance of the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant also result in emissions from landscaping and related equipment. Maintenance emissions were calculated using CalEEMod defaults for area sources.

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### Existing LA Clippers Facilities

Maintenance of the existing LA Clippers Facilities would also result in emissions from landscaping and related equipment. Maintenance emissions were calculated using CalEEMod defaults for area sources.

### Existing LA Clippers Games at Staples Center and Market-Shifted Events

Maintenance of the Staples Center and other venues from which the market-shifted events would come from is not expected to change once the IBEC Project becomes operational. Thus, area-source emissions from the existing LA Clippers Games at Staples Center and market-shifted events were not included in the baseline emissions.

#### **2.1.6 Baseline Conditions Results**

Table 2 presents the emissions associated with the existing on-site buildings at the IBEC Project Site and IBEC Project Variants sites that would be removed under both the IBEC Project and IBEC Project Variants. For simplification, both the Alternate Prairie Access Variant and the West Century Boulevard Pedestrian Bridge Variant were analyzed together and referred to as the IBEC Project Variants throughout this report. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

**Table 2. Existing On-Site Buildings Operational Emissions**

<b>Emissions Source</b>	<b>IBEC Project Site (MT CO<sub>2</sub>e)</b>	<b>IBEC Project Variant Sites (MT CO<sub>2</sub>e)</b>
Area	<0.1	1
Energy	206	214
Mobile	925	972
Waste	36	37
Water and Wastewater	36	38
<b>Total</b>	<b>1,203</b>	<b>1,262</b>

Notes: Totals may not add due to rounding.  
MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.  
Source: Modeled by AECOM in 2018

Table 3 presents the operational emissions associated with the existing LA Clippers Facilities that would be relocated to the IBEC Project Site. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

**Table 3. Existing LA Clippers Facilities (LA Clippers Team Offices and LA Clippers Training Center)**

Emissions Source	Operational Emissions (MT CO <sub>2</sub> e)
Area	<0.1
Energy	505
Mobile	427
Waste	132
Water and Wastewater	54
<b>Total</b>	<b>1,117</b>

Notes: Totals may not add due to rounding.  
 MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.  
 Source: Modeled by AECOM in 2018

Table 4 presents the emissions estimates for the potential future reuse of the LA Clippers Team Offices space by a new, different office tenant after the space is vacated by the LA Clippers. These emissions estimates were subtracted from the baseline condition emissions.

**Table 4. Alternate Future Use of LA Clippers Team Offices**

Emissions Source	Operational Emissions (MT CO <sub>2</sub> e)
Area	<0.1
Energy	128
Mobile	216
Waste	9
Water and Wastewater	31
<b>Total</b>	<b>385</b>

Notes: Totals may not add due to rounding.  
 MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.  
 Source: Modeled by AECOM in 2018

Table 5 presents the operational emissions associated with the existing LA Clippers games at the Staples Center that would be relocated to the IBEC Project arena. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

**Table 5. Existing NBA Games**

Emissions Source	Operational Emissions (MT CO <sub>2</sub> e)
Energy	1,100
Mobile	4,235
Waste	122
Water and Wastewater	535
<b>Total</b>	<b>5,992</b>

Notes: Totals may not add due to rounding.  
 MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.  
 Source: Modeled by AECOM in 2018

Table 6 presents the operational emissions associated with the existing market-shifted events. Energy, solid waste, and water emissions are based on an average GHG emissions rate per attendee, as explained above in Sections 2.1.1, 2.1.3, and 2.1.4.

**Table 6. Market-Shifted Events**

Emissions Source	Operational Emissions (MT CO <sub>2</sub> e)
Mobile	1,685
Energy	1,152
Waste	81
Water and Wastewater	378
<b>Total</b>	<b>3,296</b>

Notes: Totals may not add due to rounding.  
 MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.  
 Source: Modeled by AECOM in 2018

Table 7 presents the baseline operational emissions estimates. The existing baseline is slightly different for the IBEC Project compared to the IBEC Project Variants since additional buildings would be removed for the IBEC Project Variants – both scenarios are shown below.

**Table 7. Baseline Emissions Summary**

Emissions Source	Proposed IBEC Project	Variants
Area	<0.1	1
Energy	2,962	2,970
Mobile	7,272	7,319
Waste	371	372
Water and Wastewater	1,003	1,005
Backfilled Office Space	(385)	(385)
<b>Total</b>	<b>11,223</b>	<b>11,282</b>

Notes: Totals may not add due to rounding.  
 MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.  
 Source: Modeled by AECOM in 2018

As shown in Table 7, the existing baseline emissions would be approximately 11,223 MT CO<sub>2</sub>e for the IBEC Project and 11,282 MT CO<sub>2</sub>e for the IBEC Project Variants. The results show there is only a negligible increase in the baseline emissions with the addition of the two existing buildings included in the Alternate Prairie Access Variant.

## 2.2 IBEC PROJECT OPERATIONAL EMISSIONS METHODOLOGY

As explained previously, the operational life of the IBEC Project was assumed to be 30 years. Therefore, operational emissions were estimated from the anticipated start of operations at the IBEC Project in July 2024 through 2054. Operational emissions associated with the IBEC Project and IBEC Project Variants include emissions from energy (electricity and natural gas),



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on-road motor vehicles (mobile), solid waste, water and wastewater, and area sources. Detailed methodology for each emissions source is presented below. Operational emissions were estimated using CalEEMod, Version 2016.3.2, and off-model spreadsheet calculations using ARB-approved tools, such as EMFAC2014. Emissions associated with the IBEC project were estimated based on three operational scenarios: (1) IBEC Project without GHG Reduction Measures, representing the proposed project absent implementation of any GHG emission reduction measures beyond current building code requirements (e.g., 2019 Title 24 standards);(2) IBEC Project with local, direct GHG Reduction Measures, demonstrating the reductions in GHG emissions achieved through local direct measures as defined by AB 987, including the implementation of the IBEC Transportation Demand Management Program (IBEC TDM Program) (see Attachment C) and 50% of the reductions resulting from the measures included as project design features and/or features within the Leadership in Energy and Environmental Design (LEED) Gold strategy; and (3) IBEC Project with GHG Reduction Measures, calculating the total net new emissions resulting from the project with the implementation of the IBEC TDM Program and 100% of the project design features and LEED Gold strategy.

### **2.2.1 Energy**

The IBEC Project and IBEC Project Variants would consume energy (electricity and natural gas) for multiple purposes including, but not limited to, building heating and cooling, lighting, and electronics. Based on a white box model for the IBEC project assuming compliance with 2019 Title 24 code and CALGreen requirements, the energy consumption for the IBEC project would be approximately 51 kilo-British thermal units (kBtu) per square foot. The estimated energy consumption rates were entered into CalEEMod to estimate GHG-related emissions. The hotel land use was not included within the white energy box model; thus, energy consumption for the hotel land use utilized the default CalEEMod energy consumption rates, which is based on the CEUS study.

In addition, Executive Order S-14-08 and the recently approved Senate Bill 100 established an RPS of 33 percent by 2020, 50 percent by 2026, 60 percent by 2030, and 100 percent by 2045. To achieve the RPS mandate, utilities such as SCE will increase their renewable resources for energy production. Therefore, all electricity consumption from SCE sources would decrease in GHG intensity (i.e., emissions generated per kilowatt-hour) as the RPS is met. Based on the 2016 California Energy Commission (CEC) power content labels and 2016 SCE GHG intensity factor of 529.11 pounds CO<sub>2</sub>e per megawatt-hour (MWh), future GHG intensities were interpolated assuming a linear trajectory toward 100 percent clean electricity by 2045. Thus, the GHG intensity value for SCE in CalEEMod was adjusted to reflect the projected SCE GHG intensity values for future operational years consistent with RPS mandates.

As project design features included within the LEED strategy, the IBEC Project would include sustainable design measures, such as a solar photo-voltaic (PV) system. Based on the project

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design features included in the design of the IBEC Project, this analysis assumes the IBEC Project would include a 700-kilowatt (kW) PV system, generating approximately 1,085,000 kW-hours of clean energy annually. In addition, the project design will include compliance with CalGreen Code Voluntary Tier 1, which is estimated to achieve a 10 percent reduction in energy consumption over Title 24 2019 standards based on the preliminary design of the IBEC Project.

### **2.2.2 Mobile Sources**

Trip generation estimates were based on a project-specific analysis from the IBEC Annual Trip Generation Summary (AECOM 2018). As discussed in more detail in Attachment D of the application, future trip generation was estimated based on the average number of attendees/customers and employees for the proposed event schedule. The sports medicine clinic, dining and retail space, community space, and hotel uses were analyzed using standardized trip generation rates, internal capture methodology and pass-by reduction from the nationally accepted ITE Trip Generation Handbooks 10<sup>th</sup> Edition and San Diego Association of Governments. The LA Clippers offices and the LA Clippers practice and training facility will only be utilized by LA Clippers employees, thus, vehicle trips were estimated using the application of mode share splits and average vehicle occupancy for those employees. Similar to the baseline conditions, mobile source operational emissions associated with the IBEC Project were estimated using emission factors from ARB's EMFAC2014 inventory model. The default fleet mix in EMFAC2014 was also adjusted to account for the vehicle types that would be applicable to the IBEC Project. On-road motor vehicles for the visitors to the arena would primarily be passenger vehicles (i.e., light-duty autos and light-duty trucks). The trip length for attendees was based on the weighted average trip distance of 21.59 miles to the IBEC Project Site based on ZIP Code data provided for ticket purchases for LA Clippers home games from within the greater Los Angeles region. Vehicle trip lengths for employees were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles. Trip lengths associated with the remaining land uses, such as the sports medicine clinic, community space, restaurants, etc. were based on the CalEEMod Commercial-Customer default urban trip length for Los Angeles County of 8.40 miles.

Emission factors for mobile source emissions would decrease in future years based on the implementation of Pavley I and II, Advanced Clean Cars Program, and fleet turnover. Therefore, emission factors were developed for each year after 2024 (first operational year) through 2050. EMFAC2014 does not provide emission factors beyond 2050; thus emissions associated with mobile sources were assumed to remain constant through 2050 and 2054.

The trip generation analysis assumed two project conditions, annual trip rates for the IBEC Project without implementation of the IBEC TDM Program, and annual trip rates for the IBEC Project with implementation of the IBEC TDM Program. The project sponsor would take advantage of the IBEC Project Site's multimodal setting by implementing transportation demand management measures with the goal of minimizing the number of single-occupancy vehicle trips

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generated by the IBEC Project or IBEC Project Variants over the project lifetime. As explained in more detail in Attachments C and D of the AB 987 application, implementation of the IBEC TDM Program would result in trip reductions due to use of modes of transportation other than auto trips, such as transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, charter coach buses, walking, and bicycling (AECOM 2018). Mobile source emissions also include emissions from the proposed IBEC TDM Program measures, such as the transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, and charter coach buses. The emission factor for these trips was based on an average emission factor for buses, urban buses, and motor coaches provided in EMFAC2014.

Mobile source emissions for the IBEC Project also include emissions from delivery trips. Based on delivery and vendor trip information to similar event centers, it was assumed the IBEC Project main arena structure would have approximately eight deliveries per work day. Delivery truck trips associated with the retail, dining, and hotel land uses were estimated to be 42 trips per work day, based on truck trip generation data provided in the National Cooperative Highway Research Program (NCHRP 2001).. The trip length for delivery trips is assumed to be 6.9 miles, the default commercial-nonwork trip length in CalEEMod for Los Angeles County. The emission factor for these trips were based on an average emission factor for light heavy-duty, medium, and heavy duty vehicle types provided in EMFAC2014.

As stated previously, the IBEC Project Variants would have nearly the same program of development as the IBEC Project, resulting in the same trip generation and travel demand. Therefore, the mobile source emissions for the IBEC Project Variants would be the same as for the IBEC Project.

### **2.2.3 Waste**

GHG emissions generated from solid waste disposal associated with the arena for the IBEC Project and IBEC Project Variants use an annual waste generation rate of 1.29 tons per 1,000 sq. ft. per year based on rates used in similar projects (City of Sacramento 2013). Consistent with estimates provided for similar projects, the solid waste generation rates for the retail and office land uses were based on 2.0 pounds per 100 sq. ft. per day and 1.0 pound per 100 sq. ft. per day, respectively (City and County of San Francisco 2014a). CalEEMod defaults for solid waste generation were used for the hotel component and all other land uses of the IBEC Project not specified above.

### **2.2.4 Water and Wastewater**

GHG emissions are generated from the use of energy to supply, distribute, and treat water and wastewater. Water-related energy intensities (i.e., kilowatt-hour per gallon of water) in CalEEMod are based on the California Energy Commission's Refining Estimates of Water-Related Energy Use in California. Proposed annual water demand for the IBEC Project arena

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was based on an indoor water demand factor of 3 gallons per day per attendee and 14 gallons per day per employee for event days (City and County of San Francisco 2014b). The annual water demand for the hotel and all other ancillary land uses, including the team practice & training facility, organization office, sports medicine clinic, community space, dining, and retail, was based on CalEEMod defaults. The indoor and outdoor water use consumption data in CalEEMod for each land use subtype comes from the Pacific Institute's Waste Not, Want Not: The Potential for Urban Water Conservation in California (2003) and the American Water Works Association Research Foundation's Commercial and Institutional End Uses of Water (2000).

As a project design feature under the LEED Strategy, a water conservation strategy to achieve a 50-percent reduction and a 30-percent reduction would be implemented for outdoor and indoor water uses, respectively.

### **2.2.5 Area Sources**

Maintenance of the IBEC Project Site and IBEC Project Variants sites would result in emissions from landscaping and related equipment. Maintenance emissions were calculated using CalEEMod for area sources based on the type and size of land uses associated with the IBEC Project and IBEC Project Variants.

### **2.2.6 Stationary Sources**

The IBEC Project was assumed to have emergency generators with a capacity of up to 3,250 kW to serve as a back-up power supply. Operational emissions for the generators would result from intermittent use for maintenance and testing purposes. The generators were assumed to run approximately 50 hours per year pursuant to South Coast Air Quality Management District Rule 1470, Stationary Diesel Fueled Internal Combustion and Other Compression Ignition Engines.

### **2.2.7 IBEC Project Operational Emissions Results**

Annual operational emissions were estimated based on the methodology discussed above. Table 8 presents the emissions associated with operation of the IBEC Project and IBEC Project Variants combined together with and without GHG Reduction Measures for the first year of operations. The emissions presented below assume the IBEC Project would be operational for the entirety of 2024. However, the first day of operation of the IBEC Project is anticipated to be July 1, 2024. Thus, in the tables that follow to present the net new emissions associated with the IBEC Project, emissions for 2024 are reduced by 50 percent to estimate the emissions for the actual operations of the IBEC Project for that year. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

**Table 8. IBEC Project Operational GHG Emissions – 2024**

<b>Emissions Source</b>	<b>Operational Emissions without GHG Reduction Measures (MT CO<sub>2</sub>e)</b>	<b>Operational Emissions with Local Direct GHG Reduction Measures<sup>1</sup> (MT CO<sub>2</sub>e)</b>	<b>Operational Emissions with All GHG Reduction Measures<sup>2</sup> (MT CO<sub>2</sub>e)</b>
Area	0.1	0.1	0.1
Energy	5,851	5,647	5,443
Mobile	12,626	10,256	10,256
Stationary	87	87	87
Waste	1,207	1,207	1,207
Water and Wastewater	222	185	148
<b>Total Operational Emissions</b>	<b>19,994</b>	<b>17,382</b>	<b>17,141</b>

Notes: Totals may not add due to rounding.

<sup>1</sup> Includes reductions associated with implementation of the TDM Program and 50% of the reductions achieved through LEED Gold.

<sup>2</sup> Includes reductions associated with implementation of the TDM Program and 100% of the reductions achieved through LEED Gold.

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent; PDF = project design features

Source: Modeled by AECOM in 2018

## 2.3 IBEC PROJECT CONSTRUCTION EMISSIONS

### 2.3.1 Construction

GHG emissions from construction of the IBEC Project and IBEC Project Variants include emissions from off-road equipment and construction trips. Construction phasing was provided by the project construction contractor. Construction of the IBEC Project and IBEC Project Variants would occur in several overlapping phases over approximately 36 months. GHG emissions were calculated using project-specific information regarding the construction schedule, construction equipment quantities, and material-hauling.

Construction-related GHG emissions were calculated using the most current version of CalEEMod, Version 2016.3.2. CalEEMod allows the user to enter project-specific construction information, such as types, number, and horsepower of construction equipment, and number and length of off-site motor vehicle trips. GHG emissions from on-road construction trips were calculated using the estimated number of truck (concrete and haul trucks) trips and estimated construction workforce quantity. For haul trucks, a 20-mile one-way trip length was used, based on CalEEMod default truck trip lengths, and for vendor trucks (e.g., concrete and water trucks) a 6.90-mile trip length was used, based on the regional default vendor trip length provided in CalEEMod.

Exhaust emissions rates of the construction equipment in California will decrease over time as stricter standards take effect. Advancements in engine technology, retrofits, and turnover in the equipment fleet are anticipated to result in lower levels of emissions. Emissions were estimated for each year that construction would occur based on emission factors for equipment fleet averages specific to that calendar year.

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### 2.3.2 Construction Results

Based on the similarities in project construction required for the IBEC Project and IBEC Project Variants, construction-related emissions after demolition were assumed to be similar for purposes of simplifying this part of the analysis. Table 9 presents the construction-related GHG emissions for the IBEC Project and IBEC Project Variants. GHG emissions were estimated at an annual maximum of 6,401 MT CO<sub>2</sub>e during 2023 for both the IBEC Project and IBEC Project Variants. Construction-related emissions were estimated to be approximately 15,214 MT CO<sub>2</sub>e and 15,240 CO<sub>2</sub>e total over the entire 3-year (36-month) construction period for the IBEC Project and IBEC Project Variants, respectively. CalEEMod modeling outputs are provided in Appendix A.

**Table 9. Construction-Related GHG Emissions**

<b>Construction Year</b>	<b>IBEC Project GHG Emissions (MT CO<sub>2</sub>e)</b>	<b>IBEC Project Variants GHG Emissions (MT CO<sub>2</sub>e)</b>
2021 <sup>a</sup>	1,750	1,775
2022	5,630	5,630
2023	6,401	6,401
2024 <sup>b</sup>	1,433	1,433
<b>Total</b>	<b>15,214</b>	<b>15,240</b>

Notes: Totals may not add due to rounding.

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

<sup>a</sup> Construction in 2021 is anticipated to only occur July through December.

<sup>b</sup> Construction in 2024 is anticipated to only occur January through June.

Source: Modeled by AECOM in 2018

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## SECTION 3 GHG EMISSIONS RESULTS

### 3.1 EMISSION RESULTS

As stated previously, operational emissions associated with the IBEC Project and IBEC Project Variants would be similar. However, as shown in Table 7, the baseline emissions under the IBEC Project and IBEC Project Variants would be slightly different. Therefore, the following tables present the net GHG emissions by year for the IBEC Project and IBEC Project Variants.

#### 3.1.1 IBEC Project Emission Results

Table 10 shows the change in GHG emissions by year for the IBEC Project between 2021 and 2054 without GHG Reduction Measures. Table 11 shows the net change in emissions with the GHG Reduction Measures.

**Table 10. IBEC Project - Net GHG Emissions by Year  
without GHG Reduction Measures**

<b>Emissions Year</b>	<b>IBEC Project (MT CO<sub>2</sub>e)</b>	<b>Baseline Emissions (MT CO<sub>2</sub>e)</b>	<b>Net Emissions IBEC Project (MT CO<sub>2</sub>e)</b>
2021 <sup>a,b</sup>	1,750	1,203	547
2022 <sup>a,b</sup>	5,630	1,203	4,428
2023 <sup>a,b</sup>	6,401	1,203	5,199
2024 <sup>c</sup>	11,430	6,213	5,217
2025	19,418	11,223	8,195
2026	18,917	11,223	7,694
2027	18,468	11,223	7,244
2028	18,062	11,223	6,839
2029	17,693	11,223	6,470
2030	17,358	11,223	6,135
2031	16,858	11,223	5,635
2032	16,362	11,223	5,139
2033	15,893	11,223	4,669
2034	15,446	11,223	4,223
2035	15,021	11,223	3,798
2036	14,616	11,223	3,393
2037	14,230	11,223	3,007
2038	13,861	11,223	2,638
2039	12,902	11,223	1,678
2040	13,161	11,223	1,938
2041	12,828	11,223	1,605
2042	12,503	11,223	1,279
2043	12,184	11,223	961
2044	11,871	11,223	648
2045	11,562	11,223	339
2046	11,548	11,223	325
2047	11,538	11,223	314
2048	11,529	11,223	306
2049	11,522	11,223	299
2050	11,516	11,223	293
2051	11,516	11,223	293
2052	11,516	11,223	293
2053	11,516	11,223	293
2054	11,516	11,223	293
<b>Total</b>	<b>448,139</b>	<b>346,516</b>	<b>101,623</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.

Source: Modeled by AECOM in 2018



**Table 11. IBEC Project - Net GHG Emissions by Year  
with GHG Reduction Measures**

<b>Emissions Year</b>	<b>IBEC Project (MT CO<sub>2</sub>e)</b>	<b>Baseline Emissions (MT CO<sub>2</sub>e)</b>	<b>Net Emissions IBEC Project (MT CO<sub>2</sub>e)</b>
2021 <sup>a,b</sup>	1,750	1,203	547
2022 <sup>a,b</sup>	5,630	1,203	4,428
2023 <sup>a,b</sup>	6,401	1,203	5,199
2024 <sup>c</sup>	10,003	6,213	3,791
2025	16,671	11,223	5,448
2026	16,262	11,223	5,038
2027	15,893	11,223	4,670
2028	15,559	11,223	4,336
2029	15,255	11,223	4,032
2030	14,977	11,223	3,754
2031	14,541	11,223	3,318
2032	14,110	11,223	2,886
2033	13,698	11,223	2,475
2034	13,305	11,223	2,082
2035	12,929	11,223	1,706
2036	12,570	11,223	1,347
2037	12,226	11,223	1,003
2038	11,895	11,223	672
2039	10,997	11,223	-226
2040	11,286	11,223	63
2041	10,982	11,223	-241
2042	10,684	11,223	-539
2043	10,391	11,223	-832
2044	10,103	11,223	-1,120
2045	9,818	11,223	-1,406
2046	9,806	11,223	-1,418
2047	9,796	11,223	-1,427
2048	9,788	11,223	-1,435
2049	9,781	11,223	-1,442
2050	9,775	11,223	-1,448
2051	9,775	11,223	-1,448
2052	9,775	11,223	-1,448
2053	9,775	11,223	-1,448
2054	9,775	11,223	-1,448
<b>Total</b>	<b>385,981</b>	<b>346,516</b>	<b>39,466</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.

Source: Modeled by AECOM in 2018

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As shown in Table 11, the emissions generated by the IBEC Project when considering the TDM Program and project design features, would continue to result in a net increase of 39,466 MT CO<sub>2</sub>e in emissions when compared to the baseline.

### **3.1.2 IBEC Project Variants Emission Results**

Table 12 shows the change in GHG emissions by year for the IBEC Project Variants between 2021 and 2054 without GHG Reduction Measures. Table 13 shows the net change in emissions for the IBEC Project Variants with the GHG Reduction Measures.

**Table 12. IBEC Project Variants - Net GHG Emissions by Year  
without GHG Reduction Measures**

<b>Emissions Year</b>	<b>Variants (MT CO<sub>2</sub>e)</b>	<b>Baseline Emissions (MT CO<sub>2</sub>e)</b>	<b>Net Emissions IBEC Project (MT CO<sub>2</sub>e)</b>
2021 <sup>a,b</sup>	1,775	1,262	514
2022 <sup>a,b</sup>	5,630	1,262	4,369
2023 <sup>a,b</sup>	6,401	1,262	5,140
2024 <sup>c</sup>	11,430	6,272	5,158
2025	19,418	11,282	8,136
2026	18,917	11,282	7,635
2027	18,468	11,282	7,185
2028	18,062	11,282	6,780
2029	17,693	11,282	6,411
2030	17,358	11,282	6,076
2031	16,858	11,282	5,576
2032	16,362	11,282	5,080
2033	15,893	11,282	4,610
2034	15,446	11,282	4,164
2035	15,021	11,282	3,739
2036	14,616	11,282	3,334
2037	14,230	11,282	2,948
2038	13,861	11,282	2,579
2039	12,902	11,282	1,619
2040	13,161	11,282	1,879
2041	12,828	11,282	1,546
2042	12,503	11,282	1,220
2043	12,184	11,282	902
2044	11,871	11,282	589
2045	11,562	11,282	280
2046	11,548	11,282	266
2047	11,538	11,282	255
2048	11,529	11,282	247
2049	11,522	11,282	240
2050	11,516	11,282	234
2051	11,516	11,282	234
2052	11,516	11,282	234
2053	11,516	11,282	234
2054	11,516	11,282	234
<b>Total</b>	<b>448,165</b>	<b>348,521</b>	<b>99,644</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.

Source: Modeled by AECOM in 2018

**Table 13. IBEC Project Variants - Net GHG Emissions by Year with GHG Reduction Measures**

<b>Emissions Year</b>	<b>Variants (MT CO<sub>2</sub>e)</b>	<b>Baseline Emissions (MT CO<sub>2</sub>e)</b>	<b>Net Emissions IBEC Project (MT CO<sub>2</sub>e)</b>
2021 <sup>a,b</sup>	1,775	1,262	514
2022 <sup>a,b</sup>	5,630	1,262	4,369
2023 <sup>a,b</sup>	6,401	1,262	5,140
2024 <sup>c</sup>	10,003	6,272	3,732
2025	16,671	11,282	5,389
2026	16,262	11,282	4,980
2027	15,893	11,282	4,611
2028	15,559	11,282	4,277
2029	15,255	11,282	3,973
2030	14,977	11,282	3,695
2031	14,541	11,282	3,259
2032	14,110	11,282	2,827
2033	13,698	11,282	2,416
2034	13,305	11,282	2,023
2035	12,929	11,282	1,647
2036	12,570	11,282	1,288
2037	12,226	11,282	944
2038	11,895	11,282	613
2039	10,997	11,282	-285
2040	11,286	11,282	4
2041	10,982	11,282	-300
2042	10,684	11,282	-598
2043	10,391	11,282	-891
2044	10,103	11,282	-1,179
2045	9,818	11,282	-1,465
2046	9,806	11,282	-1,477
2047	9,796	11,282	-1,486
2048	9,788	11,282	-1,494
2049	9,781	11,282	-1,501
2050	9,775	11,282	-1,507
2051	9,775	11,282	-1,507
2052	9,775	11,282	-1,507
2053	9,775	11,282	-1,507
2054	9,775	11,282	-1,507
<b>Total</b>	<b>386,007</b>	<b>348,521</b>	<b>37,486</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events .

Source: Modeled by AECOM in 2018

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As shown in Table 13, the emissions generated by the IBEC Project Variants with the GHG Reduction Measures would result in a net increase of 37,486 MT CO<sub>2</sub>e in emissions when compared to the baseline.

### **3.2 NET NEW PROJECT EMISSIONS AND AB 987 REQUIREMENTS**

As shown above in Tables 10 through 13, the IBEC Project and IBEC Project Variants would result in net new GHG emissions of approximately 101,623 MT CO<sub>2</sub>e and 99,644 MT CO<sub>2</sub>e, respectively, absent implementation of GHG Reduction Measures.

Pursuant to AB 987, the project must not result in any net new emission of GHGs. Per the requirements of AB 987, half of the net new GHG emissions for the IBEC Project must be reduced by local, direct measures. Under this requirement, 50% of the reductions resulting from project design features and measures used as part of the strategy to meet LEED Gold requirements can be considered “local, direct measures.” Under AB 987, the remaining half of net new emissions not reduced by local, direct measures may be reduced by the remaining reductions attributable to LEED Gold features and the purchase of carbon credits. Co-benefits from measures used to satisfy nitrogen oxide (NO<sub>x</sub>) and particulate matter with aerodynamic diameter less than 2.5 microns (PM<sub>2.5</sub>) reduction requirements under AB 987 that also reduce GHG emissions can also be used to meet these GHG emission reduction requirements.

The tables below show the net new emissions produced by the IBEC Project and the IBEC Project Variants without GHG Reduction Measures (i.e., without implementation of the IBEC TDM Program or any of the project design features and measures used as part of the LEED Gold strategy), the net new emissions produced by the IBEC Project and IBEC Project Variants after applying the reductions resulting from implementation of the local, direct GHG Reduction Measures (i.e., with implementation of the IBEC TDM Program and 50 percent of the project design features and measures used as part of the LEED Gold strategy), and the net new emissions produced by the IBEC Project and IBEC Project Variants after application of all GHG Reduction Measures (i.e., with implementation of the IBEC TDM Program and all of the project design features and measures used as part of the LEED Gold certification strategy).

### 3.2.1 IBEC Project Net New Emissions

**Table 14. IBEC Project Net New Emissions Summary**

Emissions Year	IBEC Project without GHG Reduction Measures (No TDM or PDFs)	IBEC Project with Local, Direct GHG Reduction Measures (TDM and 50% PDFs)	IBEC Project with GHG Reduction Measures (TDM and 100% PDFs)
2021	547	547	547
2022	4,428	4,428	4,428
2023	5,199	5,199	5,199
2024	5,217	3,911	3,791
2025	8,195	5,686	5,448
2026	7,694	5,274	5,038
2027	7,244	4,902	4,670
2028	6,839	4,566	4,336
2029	6,470	4,258	4,032
2030	6,135	3,977	3,754
2031	5,635	3,531	3,318
2032	5,139	3,087	2,886
2033	4,669	2,664	2,475
2034	4,223	2,260	2,082
2035	3,798	1,872	1,706
2036	3,393	1,502	1,347
2037	3,007	1,147	1,003
2038	2,638	804	672
2039	1,678	-105	-226
2040	1,938	173	63
2041	1,605	-143	-241
2042	1,279	-453	-539
2043	961	-757	-832
2044	648	-1,056	-1,120
2045	339	-1,353	-1,406
2046	325	-1,365	-1,418
2047	314	-1,375	-1,427
2048	306	-1,383	-1,435
2049	299	-1,390	-1,442
2050	293	-1,396	-1,448
2051	293	-1,396	-1,448
2052	293	-1,396	-1,448
2053	293	-1,396	-1,448
2054	293	-1,396	-1,448
<b>Total</b>	<b>101,623</b>	<b>43,428</b>	<b>39,466</b>

As shown in Table 14, the emissions generated by the IBEC Project with implementation of the GHG Reduction Measures, would continue to result in a net increase of 39,466 MT CO<sub>2</sub>e in emissions when compared to the baseline.

### 3.2.2 IBEC Project Variants Net New Emissions

**Table 15. IBEC Project Variants Project Net New Emissions Summary**

Emissions Year	IBEC Project Without GHG Reduction Measures (No TDM or PDFs)	IBEC Project With Local, Direct GHG Reduction Measures (TDM and 50% PDFs)	Project With GHG Reduction Measures (TDM and 100% PDFs)
2021	514	514	514
2022	4,369	4,369	4,369
2023	5,140	5,140	5,140
2024	5,158	3,852	3,732
2025	8,136	5,627	5,389
2026	7,635	5,215	4,980
2027	7,185	4,843	4,611
2028	6,780	4,507	4,277
2029	6,411	4,199	3,973
2030	6,076	3,918	3,695
2031	5,576	3,472	3,259
2032	5,080	3,028	2,827
2033	4,610	2,605	2,416
2034	4,164	2,201	2,023
2035	3,739	1,813	1,647
2036	3,334	1,443	1,288
2037	2,948	1,088	944
2038	2,579	745	613
2039	1,619	-164	-285
2040	1,879	114	4
2041	1,546	-202	-300
2042	1,220	-512	-598
2043	902	-816	-891
2044	589	-1,115	-1,179
2045	280	-1,412	-1,465
2046	266	-1,424	-1,477
2047	255	-1,434	-1,486
2048	247	-1,442	-1,494
2049	240	-1,449	-1,501
2050	234	-1,455	-1,507
2051	234	-1,455	-1,507
2052	234	-1,455	-1,507
2053	234	-1,455	-1,507
2054	234	-1,455	-1,507
<b>Total</b>	<b>99,644</b>	<b>41,448</b>	<b>37,486</b>

As shown in Table 15, the emissions generated by the IBEC Project Variants with implementation of the GHG Reduction Measures, would continue to result in a net increase of 37,486 MT CO<sub>2</sub>e in emissions when compared to the baseline.

### 3.3 AB 987 SUMMARY OF REDUCTIONS

As explained in Section 3.2, half of the net new GHG emissions produced by the IBEC Project without GHG Reduction Measures must be reduced by local, direct measures, including the

reductions in emissions resulting from implementation of the IBEC TDM Program and 50% of the reductions resulting from the LEED Gold strategy. Tables 16 and 17 identify the reductions that would be achieved through these local, direct measures and the remaining GHG emission reductions required that would need to be achieved through the additional 50% of LEED Gold measures, purchase of offset credits, and/or co-benefits from NO<sub>x</sub> and PM<sub>2.5</sub> reduction measures.

**Table 16. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary**

<b>IBEC Project Condition and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Net New Emissions</b>
Total Net New Emissions IBEC Project Without GHG Reduction Measures	101,623	100%
Required GHG Reductions from Local, Direct Measures	50,812	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	53%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	57%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	61%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NO <sub>x</sub> and PM <sub>2.5</sub> Reduction Measures	39,466	39%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO<sub>2</sub>e = metric tons carbon dioxide equivalents



**Table 17. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary**

<b>Project Condition and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Net New Emissions</b>
Total Net New Emissions IBEC Project Variants Without GHG Reduction Measures	99,644	100%
Required GHG Reductions from Local, Direct Measures	49,822	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	54%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	58%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	62%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NO <sub>x</sub> and PM <sub>2.5</sub> Reduction Measures	37,486	38%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO<sub>2</sub>e = metric tons carbon dioxide equivalents

As shown in Tables 16 and 17, the IBEC Project and the IBEC Project Variants would meet the AB 987 requirement that 50 percent of the net new emissions need to be offset by local, direct measures. As such, the remaining net new emissions of 39,466 MT CO<sub>2</sub>e and 37,486 MT CO<sub>2</sub>e for the IBEC Project and IBEC Project Variants, respectively, would need to be offset by the purchase of carbon credits and/or co-benefits of NO<sub>x</sub> and PM<sub>2.5</sub> reduction measures.

### **3.4 MEASURES FOR OFFSETTING NET INCREASE GHG EMISSIONS**

#### **3.4.1 LEED Gold Certification**

The IBEC Project or IBEC Project Variants, upon completion, will qualify for LEED Gold certification or better. The AB 987 application specifies those design elements that make the IBEC Project (and IBEC Project Variants) eligible for LEED Gold certification or better. As required by AB 987, the applicant will submit an application to receive LEED Gold Certification for new construction within one year of the completion of the first NBA season at the IBEC Project.

#### **3.4.2 IBEC TDM Program**

In compliance with AB 987, the IBEC TDM Program is designed to achieve a 15% reduction in annual vehicle trips when measured against the IBEC Project without implementation of the IBEC TDM Program. As explained in more detail in Attachment C of the AB 987 application, the IBEC TDM Program includes strategies, incentives, and tools that provide opportunities for event attendees and employees to choose modes of transportation other than the automobile. The measures are to be coordinated with the City of Inglewood Planning Department at the time of project approval, and implemented as soon as feasible. The applicant is required to verify

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achievement of the 15% reduction in vehicle trips to the City of Inglewood and the Office of Planning and Research no later than January 1, 2030.

### **3.4.3 Potential Co-Benefits from NO<sub>x</sub> and PM<sub>2.5</sub> Reductions per AB 987**

Per the requirements of AB 987, the IBEC Project must also achieve reductions of 400 tons of NO<sub>x</sub> and 10 tons of PM<sub>2.5</sub> over 10 years following the commencement of construction of the project. Of these amounts, 130 tons of NO<sub>x</sub> and 3 tons of PM<sub>2.5</sub> must be achieved within the first year following commencement of construction. If the applicant can demonstrate and verify to the South Coast Air Quality Management District that it has invested at least \$30 million dollars toward achieve those air pollutant reductions, only one-half of these reduction amounts must be achieved. If there are any GHG emission reductions associated with the reduction measures used to meet the NO<sub>x</sub> and PM<sub>2.5</sub> requirement (i.e., GHG reduction co-benefits), those reductions can also be counted towards meeting the GHG reductions required for the IBEC Project or IBEC Project Variants, as shown in Tables 16 and 17.

### **3.4.4 Carbon Credits**

Pursuant to AB 987, the project sponsor may obtain offset credits for up to 50 percent of the GHG emissions reductions necessary to achieve the no net new GHG emissions requirement. If using offset credits, the applicant must, to the extent feasible, place the highest priority on the purchase of offset credits that produce emission reduction within the City of Inglewood or the boundaries of the South Coast Air Quality Management District. As show in Tables 16 and 17 above, the reductions estimated from local, direct GHG Reduction Measures for the IBEC Project and IBEC Project Variants exceed the requirement under AB 987 to obtain at least 50 percent of GHG emission reductions through such local, direct measures. Therefore, it is anticipated that offset credits would be used to achieve less than 50 percent of the overall GHG emission reductions necessary to meet the net zero GHG emissions requirement (up to approximately 38 to 39 percent).

Carbon credits shall be verified by a third party accredited by ARB, such as the American Carbon Registry, Climate Action Reserve, and Verified Carbon Standard. Carbon credits shall be purchased at a net present value. although the contracts could propose acquiring the credits in advance of the emission-generating activities to be offset. Contracts to purchase carbon credits for construction emissions will be entered into prior to the issuance of grading permits, and contracts to purchase carbon credits for operational emissions will be entered into prior to the issuance of the final certificate of occupancy for the IBEC Project arena. Copies of the contract(s) shall be provided to ARB and the Governor's office to verify that construction and lifetime operational emissions have been offset.



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## **APPENDIX A**

### **CALEEMOD AND GREENHOUSE GAS MODELING DATA**





<u>Table of Contents</u>	<u>Page</u>
Proposed IBEC Project Emissions Summary .....	3
Variant Emissions Summary.....	5
Baseline Emissions Summary .....	7
Construction Emissions Summary .....	9
IBEC Project Operations Emissions without GHG Reduction Measures.....	11
IBEC Project Operations Emissions with all GHG Reduction Measures .....	13
IBEC Project Operations Emissions with Local, Direct GHG Reduction Measures.....	15
Mobile Source Emissions .....	17
Water Consumption Estimates .....	23
CalEEMod Run Outputs .....	25
Project Operations Outputs .....	26
Baseline Emissions Outputs.....	239
Construction Outputs.....	389

## **Proposed IBEC Project Emissions Summary**

Net GHG Emissions Summary: Proposed IBEC Project

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions without TDM and without Project Design Features	Emissions Source																		
	Construction	1,750	5,630	6,401	1,433														
	Project Operations				9,997	19,418	18,917	18,468	18,062	17,693	17,358	16,858	16,362	15,893	15,446	15,021	14,616	14,230	
	Existing Operations (2018)	1,203	1,203	1,203	6,213	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	<b>NET GHG EMISSIONS</b>	547	4,428	5,199	5,217	8,195	7,694	7,244	6,839	6,470	6,135	5,635	5,139	4,669	4,223	3,798	3,393	3,007	
	<b>Cumulative Total</b>	547	4,975	10,173	15,390	23,585	31,279	38,524	45,363	51,833	57,967	63,602	68,741	73,411	77,633	81,431	84,824	87,831	
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	
	Construction																		
	Project Operations	13,861	12,902	13,161	12,828	12,503	12,184	11,871	11,562	11,548	11,538	11,529	11,522	11,516	11,516	11,516	11,516	11,516	
	Existing Operations (2018)	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
<b>NET GHG EMISSIONS</b>	2,638	1,678	1,938	1,605	1,279	961	648	339	325	314	306	299	293	293	293	293	293		
<b>Cumulative Total</b>	90,469	92,148	94,085	95,690	96,969	97,930	98,578	98,916	99,242	99,556	99,862	100,160	100,453	100,745	101,038	101,331	101,623		

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions with TDM and 50% Project Design Features	Emissions Source																		
	Construction	1,750	5,630	6,401	1,433														
	Project Operations				8,691	16,909	16,497	16,125	15,789	15,482	15,200	14,754	14,310	13,888	13,483	13,096	12,725	12,370	
	Existing Operations (2018)	1,203	1,203	1,203	6,213	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	<b>NET GHG EMISSIONS</b>	547	4,428	5,199	3,911	5,686	5,274	4,902	4,566	4,258	3,977	3,531	3,087	2,664	2,260	1,872	1,502	1,147	
	<b>Cumulative Total</b>	547	4,975	10,173	14,084	19,770	25,044	29,946	34,512	38,771	42,748	46,278	49,366	52,030	54,290	56,162	57,664	58,811	
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	
	Construction																		
	Project Operations	12,027	11,118	11,396	11,080	10,771	10,467	10,167	9,870	9,858	9,848	9,840	9,833	9,827	9,827	9,827	9,827	9,827	
	Existing Operations (2018)	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
<b>NET GHG EMISSIONS</b>	804	(105)	173	(143)	(453)	(757)	(1,056)	(1,353)	(1,365)	(1,375)	(1,383)	(1,390)	(1,396)	(1,396)	(1,396)	(1,396)	(1,396)		
<b>Cumulative Total</b>	59,615	59,510	59,683	59,539	59,087	58,330	57,274	55,921	54,555	53,181	51,798	50,408	49,012	47,616	46,220	44,824	43,428		

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions with TDM and 100% Project Design Features	Emissions Source																		
	Construction	1,750	5,630	6,401	1,433														
	Project Operations				8,570	16,671	16,262	15,893	15,559	15,255	14,977	14,541	14,110	13,698	13,305	12,929	12,570	12,226	
	Existing Operations (2018)	1,203	1,203	1,203	6,213	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	<b>NET GHG EMISSIONS</b>	547	4,428	5,199	3,791	5,448	5,038	4,670	4,336	4,032	3,754	3,318	2,886	2,475	2,082	1,706	1,347	1,003	
	<b>Cumulative Total</b>	547	4,975	10,173	13,964	19,412	24,450	29,120	33,456	37,488	41,242	44,560	47,446	49,921	52,003	53,709	55,056	56,059	
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	
	Construction																		
	Project Operations	11,895	10,997	11,286	10,982	10,684	10,391	10,103	9,818	9,806	9,796	9,788	9,781	9,775	9,775	9,775	9,775	9,775	
	Existing Operations (2018)	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
<b>NET GHG EMISSIONS</b>	672	(226)	63	(241)	(539)	(832)	(1,120)	(1,406)	(1,418)	(1,427)	(1,435)	(1,442)	(1,448)	(1,448)	(1,448)	(1,448)	(1,448)		
<b>Cumulative Total</b>	56,730	56,504	56,568	56,326	55,787	54,955	53,835	52,430	51,012	49,585	48,149	46,707	45,259	43,811	42,362	40,914	39,466		

Notes: Units are in metric tons CO<sub>2</sub>e per year

## **Variant Emissions Summary**

Net GHG Emissions Summary: Variant

Project Condition	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions without TDM and without Project Design Features	Emissions Source																	
	Construction	1,775	5,630	6,401	1,433													
	Project Operations				9,997	19,418	18,917	18,468	18,062	17,693	17,358	16,858	16,362	15,899	15,446	15,021	14,616	14,230
	Existing Operations (2018)	1,262	1,262	1,262	6,272	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	<b>NET GHG EMISSIONS</b>	514	4,369	5,140	5,158	8,136	7,635	7,185	6,780	6,411	6,076	5,576	5,080	4,610	4,164	3,739	3,334	2,948
	<b>Cumulative Total</b>	514	4,883	10,022	15,180	23,316	30,951	38,137	44,916	51,328	57,403	62,979	68,059	72,670	76,833	80,572	83,906	86,854
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	13,861	12,902	13,161	12,828	12,503	12,184	11,871	11,562	11,548	11,538	11,529	11,522	11,516	11,516	11,516	11,516	11,516
	Existing Operations (2018)	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
<b>NET GHG EMISSIONS</b>	2,579	1,619	1,879	1,546	1,220	902	589	280	266	255	247	240	234	234	234	234	234	
<b>Cumulative Total</b>	89,433	91,052	92,931	94,477	95,697	96,599	97,188	97,468	97,734	97,989	98,236	98,475	98,709	98,943	99,176	99,410	99,644	

Project Condition	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions with TDM and 50% Project Design Features	Emissions Source																	
	Construction	1,775	5,630	6,401	1,433													
	Project Operations				8,691	16,909	16,497	16,125	15,789	15,482	15,200	14,754	14,310	13,888	13,483	13,096	12,725	12,370
	Existing Operations (2018)	1,262	1,262	1,262	6,272	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	<b>NET GHG EMISSIONS</b>	514	4,369	5,140	3,852	5,627	5,215	4,843	4,507	4,199	3,918	3,472	3,028	2,605	2,201	1,813	1,443	1,088
	<b>Cumulative Total</b>	514	4,883	10,022	13,874	19,501	24,716	29,559	34,066	38,265	42,184	45,655	48,683	51,289	53,490	55,303	56,746	57,834
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	12,027	11,118	11,396	11,080	10,771	10,467	10,167	9,870	9,858	9,848	9,840	9,833	9,827	9,827	9,827	9,827	9,827
	Existing Operations (2018)	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
<b>NET GHG EMISSIONS</b>	745	(164)	114	(202)	(512)	(816)	(1,115)	(1,412)	(1,424)	(1,434)	(1,442)	(1,449)	(1,455)	(1,455)	(1,455)	(1,455)	(1,455)	
<b>Cumulative Total</b>	58,579	58,415	58,529	58,326	57,815	56,999	55,884	54,472	53,048	51,614	50,172	48,723	47,268	45,813	44,358	42,903	41,448	

Project Condition	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions with TDM and 100% Project Design Features	Emissions Source																	
	Construction	1,775	5,630	6,401	1,433													
	Project Operations				8,570	16,671	16,262	15,893	15,559	15,255	14,977	14,541	14,110	13,698	13,305	12,929	12,570	12,226
	Existing Operations (2018)	1,262	1,262	1,262	6,272	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	<b>NET GHG EMISSIONS</b>	514	4,369	5,140	3,732	5,389	4,980	4,611	4,277	3,973	3,695	3,259	2,827	2,416	2,023	1,647	1,288	944
	<b>Cumulative Total</b>	514	4,883	10,022	13,754	19,142	24,122	28,733	33,010	36,983	40,677	43,937	46,764	49,180	51,203	52,850	54,138	55,082
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	11,895	10,997	11,286	10,982	10,684	10,391	10,103	9,818	9,806	9,796	9,788	9,781	9,775	9,775	9,775	9,775	9,775
	Existing Operations (2018)	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
<b>NET GHG EMISSIONS</b>	613	(285)	4	(300)	(598)	(891)	(1,179)	(1,465)	(1,477)	(1,486)	(1,494)	(1,501)	(1,507)	(1,507)	(1,507)	(1,507)	(1,507)	
<b>Cumulative Total</b>	55,694	55,409	55,414	55,113	54,515	53,624	52,445	50,981	49,504	48,018	46,524	45,022	43,515	42,008	40,500	38,993	37,486	

Notes: Units are in metric tons CO<sub>2</sub>e per year

## **Baseline Emissions Summary**

**Baseline Emissions**

Baseline Operational Annual Emissions	
Four components make up the baseline operational emissions:	
1	Existing On-Site Buildings
2	Existing LA Clippers Facilities (Organization Office and Practice & Training Facility)
3	Existing LA Clippers Games at the Staples Center
4	Existing Market-Shifted Events

Baseline Operational Year 2018

Total Baseline Emissions (MT CO <sub>2</sub> e/year)		
Emissions Source	Proposed Project	Variants
Area	0.00	1.35
Energy	2,962.18	2,970.06
Mobile	7,271.85	7,318.70
Waste	370.91	372.22
Water	1,003.12	1,004.72
<b>Total</b>	<b>11,223.18</b>	<b>11,282.16</b>

Component 1 Existing Onsite Buildings (MT CO <sub>2</sub> e/year)		
Emission Source	Proposed Project	Variants
Area	0.00	1.35
Energy	205.82	213.70
Mobile	924.83	971.67
Waste	35.51	36.82
Water	36.38	37.98
<b>Total</b>	<b>1,202.54</b>	<b>1,261.52</b>

Component 2a Existing LA Clippers Facilities (MT CO <sub>2</sub> e/year)	
Emission Source	MT per year
Area	0.00
Energy	504.56
Mobile	426.98
Waste	131.66
Water	53.88
<b>Total</b>	<b>1,117.08</b>

Component 2b Reuse of Team Office (MT CO <sub>2</sub> e/year)	
Emission Source	MT per year
Area	0.00
Energy	128.30
Mobile	215.89
Waste	9.29
Water	31.41
<b>Total</b>	<b>384.89</b>

Notes: Units are in metric tons CO<sub>2</sub>e per year

Component 3 Existing Clippers Games at Staples Center (MT CO <sub>2</sub> e/year)	
Emission Source	MT per year
Area	-
Energy	1,100.26
Mobile	4,234.57
Waste	122.45
Water	534.99
<b>Total</b>	<b>5,992.27</b>

Notes: Accounts from LA Clippers NBA games only. Includes approx. 21% of Staples Center emissions

Component 4 Market-Shifted Events (MT CO <sub>2</sub> e/year)	
Emission Source	MT per year
Mobile	1,685.47
Area	-
Energy	1,151.55
Waste	81.29
Water	377.87
<b>Total</b>	<b>3,296.19</b>

Assumptions:	
LA Clippers Games account for 21% of the Staples Center Emissions.	
50% of events at the proposed IBEC Project site would be net new. 50% would be market shifted.	
Emissions from market shifted events based on GHG emissions per attendee basis.	
302,200	50% of average attendees at proposed IBEC Project (non-NBA events)
4,615,931	Total number of attendees at other Los Angeles area venues

Number of Events at Staples Center		
Event	Number of Events	Percent
LA Clippers	44	20.6%
Lakers	44	20.6%
Kings	44	20.6%
Sparks	17	7.9%
Concerts	32	15.0%
Family Shows	22	10.3%
Other	11	5.1%
<b>Total</b>	<b>21400%</b>	<b>100%</b>

Total GHG Emissions from Other Los Angeles Area Venues		
Emission Source	MT CO <sub>2</sub> e/year	MT CO <sub>2</sub> e/year/Attendee
Area	0.00	-
Energy	17,589.32	0.003811
Mobile	-	-
Waste	1241.69	0.00
Water	5771.79	0.00
<b>Total</b>	<b>24,602.81</b>	<b>0.005329977</b>

The Forum	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	1,084.03
Mobile	-
Waste	224.47
Water	689.93
<b>Total</b>	<b>1,998.42</b>

Honda Center	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	11,154.05
Mobile	-
Waste	421.68
Water	2,479.87
<b>Total</b>	<b>14,055.60</b>

Staples Center	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	5,351.24
Mobile	-
Waste	595.55
Water	2,602.00
<b>Total</b>	<b>8,548.78</b>

## **Construction Emissions Summary**



**Construction Emissions for Proposed IBEC Project and Variants**

<b>Construction Emissions (MT CO<sub>2</sub>e)</b>		
<b>Year</b>	<b>Proposed Project</b>	<b>Variants</b>
2021	1,749.51	1775.11
2022	5,630.46	5,630.46
2023	6,401.09	6,401.09
2024	1,432.95	1,432.95
<b>Total</b>	<b>15,214.01</b>	<b>15,239.61</b>

Notes: Units are in metric tons CO<sub>2</sub>e per year

<b>Proposed Project</b>	<b>Construction of Arena + Ancillary Land Uses</b>	<b>Construction of Parking Garages</b>
<b>Year</b>	<b>MT CO<sub>2</sub>e</b>	
2021	1749.51	
2022	5630.46	
2023	4773.87	1627.22
2024	717.04	715.91
<b>Total</b>	<b>12,870.88</b>	<b>2,343.13</b>

**Removal of additional buildings for the Variant:**

<b>Variant</b>	<b>GHG Emissions (MT CO<sub>2</sub>e)</b>
2021	25.6045

Notes:

Assumes removal of additional buildings occurs in 2021.

Construction of arena + ancillary land uses and parking garages overlap in 2023 and 2024.

**IBEC Project Operations Emissions  
without  
GHG Reduction Measures**

**Proposed IBEC Project Operational Emissions**

Project Condition: Without TDM and without LEED Gold Project Design Features

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,925.32	5,777.17	5,705.48	5,633.79	5,562.11	5,490.42	5,418.73	5,136.53	4,854.34	4,572.14	4,289.94	4,007.74	3,725.56	3,443.38	3,161.20
Area	0.07	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	6,313.19	12,126.97	11,700.36	11,324.90	10,993.53	10,699.07	10,437.49	10,229.70	10,026.23	9,848.47	9,693.64	9,560.74	9,448.21	9,354.45	9,276.83
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	111.21	219.86	217.36	214.87	212.37	209.87	207.38	197.55	187.72	177.89	168.06	158.24	148.41	138.58	128.75
<b>Total</b>	<b>9,996.76</b>	<b>19,418.08</b>	<b>18,917.29</b>	<b>18,467.65</b>	<b>18,062.09</b>	<b>17,693.45</b>	<b>17,357.69</b>	<b>16,857.88</b>	<b>16,362.37</b>	<b>15,892.58</b>	<b>15,445.73</b>	<b>15,020.80</b>	<b>14,616.27</b>	<b>14,230.50</b>	<b>13,860.87</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,879.02	2,596.84	2,314.64	2,032.44	1,750.24	1,468.04	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	9,213.02	9,160.90	9,119.69	9,086.55	9,060.10	9,039.14	9,021.90	9,008.39	8,997.68	8,989.04	8,981.89	8,975.90	8,975.90	8,975.90	8,975.90	8,975.90
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	118.93	109.10	99.27	89.44	79.62	69.79	59.96	59.96	59.96	59.96	59.96	59.96	59.96	59.96	59.96	59.96
<b>Total</b>	<b>12,901.63</b>	<b>13,160.93</b>	<b>12,827.68</b>	<b>12,502.52</b>	<b>12,184.04</b>	<b>11,871.06</b>	<b>11,561.79</b>	<b>11,548.28</b>	<b>11,537.57</b>	<b>11,528.93</b>	<b>11,521.77</b>	<b>11,515.78</b>	<b>11,515.78</b>	<b>11,515.78</b>	<b>11,515.78</b>	<b>11,515.78</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Units are in MT CO<sub>2</sub>e.

**IBEC Project Operations Emissions  
with all  
GHG Reduction Measures**

**Proposed IBEC Project Operational Emissions**

Project Condition: With TDM and 100% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,721.37	5,374.34	5,307.58	5,240.83	5,174.08	5,107.33	5,040.58	4,777.80	4,515.03	4,252.26	3,989.48	3,726.71	3,463.95	3,201.20	2,938.44
Area	0.07	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	5,128.01	9,856.18	9,515.32	9,215.05	8,949.78	8,713.80	8,503.93	8,337.82	8,175.13	8,032.86	7,908.79	7,802.12	7,712.38	7,637.54	7,575.50
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	73.99	146.31	144.68	143.05	141.42	139.79	138.16	131.75	125.34	118.93	112.51	106.10	99.69	93.27	86.86
<b>Total</b>	<b>8,570.42</b>	<b>16,670.91</b>	<b>16,261.67</b>	<b>15,893.02</b>	<b>15,559.36</b>	<b>15,255.01</b>	<b>14,976.76</b>	<b>14,541.46</b>	<b>14,109.59</b>	<b>13,698.13</b>	<b>13,304.87</b>	<b>12,929.02</b>	<b>12,570.11</b>	<b>12,226.10</b>	<b>11,894.89</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,675.69	2,412.93	2,150.16	1,887.38	1,624.61	1,361.84	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	7,550.53	7,505.30	7,470.09	7,441.30	7,417.81	7,398.68	7,382.50	7,370.54	7,360.79	7,352.68	7,345.76	7,339.76	7,339.76	7,339.76	7,339.76	7,339.76
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	80.45	74.04	67.62	61.21	54.80	48.39	41.97	41.97	41.97	41.97	41.97	41.97	41.97	41.97	41.97	41.97
<b>Total</b>	<b>10,997.34</b>	<b>11,286.36</b>	<b>10,981.96</b>	<b>10,683.98</b>	<b>10,391.30</b>	<b>10,102.99</b>	<b>9,817.62</b>	<b>9,805.66</b>	<b>9,795.91</b>	<b>9,787.80</b>	<b>9,780.88</b>	<b>9,774.88</b>	<b>9,774.88</b>	<b>9,774.88</b>	<b>9,774.88</b>	<b>9,774.88</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Units are in MT CO<sub>2</sub>e.

**IBEC Project Operations Emissions**  
**with**  
**Local, Direct GHG Reduction Measures**

**Reduction Achieved through 50% of LEED Gold Project Design Features**

50%

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	101.97	201.42	198.95	196.48	194.01	191.55	189.08	179.37	169.65	159.94	150.23	140.51	130.80	121.09	111.38
Water	18.61	36.77	36.34	35.91	35.47	35.04	34.61	32.90	31.19	29.48	27.78	26.07	24.36	22.65	20.95
<b>Total</b>	<b>120.58</b>	<b>238.19</b>	<b>235.29</b>	<b>232.39</b>	<b>229.49</b>	<b>226.59</b>	<b>223.68</b>	<b>212.26</b>	<b>200.84</b>	<b>189.42</b>	<b>178.00</b>	<b>166.58</b>	<b>155.16</b>	<b>143.74</b>	<b>132.32</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	101.66	91.95	82.24	72.53	62.81	53.10	43.39	43.39	43.39	43.39	43.39	43.39	43.39	43.39	43.39	43.39
Water	19.24	17.53	15.82	14.12	12.41	10.70	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99
<b>Total</b>	<b>120.90</b>	<b>109.48</b>	<b>98.06</b>	<b>86.64</b>	<b>75.22</b>	<b>63.80</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>	<b>52.38</b>

**Proposed IBEC Project Operational Emissions**

Total Reductions Achieved Through LEED

**7,924.96**

Project Condition: With TDM and 50% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,823.35	5,575.75	5,506.53	5,437.31	5,368.09	5,298.87	5,229.66	4,957.17	4,684.68	4,412.20	4,139.71	3,867.22	3,594.75	3,322.29	3,049.82
Area	0.04	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	5,128.01	9,856.18	9,515.32	9,215.05	8,949.78	8,713.80	8,503.93	8,337.82	8,175.13	8,032.86	7,908.79	7,802.12	7,712.38	7,637.54	7,575.50
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	92.60	183.08	181.02	178.96	176.90	174.83	172.77	164.65	156.53	148.41	140.29	132.17	124.05	115.93	107.81
<b>Total</b>	<b>8,690.96</b>	<b>16,909.10</b>	<b>16,496.95</b>	<b>16,125.41</b>	<b>15,788.85</b>	<b>15,481.60</b>	<b>15,200.44</b>	<b>14,753.72</b>	<b>14,310.43</b>	<b>13,887.55</b>	<b>13,482.87</b>	<b>13,095.60</b>	<b>12,725.27</b>	<b>12,369.84</b>	<b>12,027.21</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,777.35	2,504.88	2,232.40	1,959.91	1,687.42	1,414.94	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	7,550.53	7,505.30	7,470.09	7,441.30	7,417.81	7,398.68	7,382.50	7,370.54	7,360.79	7,352.68	7,345.76	7,339.76	7,339.76	7,339.76	7,339.76	7,339.76
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	99.69	91.57	83.45	75.33	67.21	59.09	50.97	50.97	50.97	50.97	50.97	50.97	50.97	50.97	50.97	50.97
<b>Total</b>	<b>11,118.24</b>	<b>11,395.84</b>	<b>11,080.03</b>	<b>10,770.62</b>	<b>10,466.52</b>	<b>10,166.79</b>	<b>9,870.01</b>	<b>9,858.04</b>	<b>9,848.29</b>	<b>9,840.19</b>	<b>9,833.26</b>	<b>9,827.26</b>	<b>9,827.26</b>	<b>9,827.26</b>	<b>9,827.26</b>	<b>9,827.26</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Units are in MT CO<sub>2</sub>e.

## **Mobile Source Emission Estimates**



Mobile Source Emissions

IRIS: Average Event Attendees - Light Duty Vehicles (Auto and TMC Trips)

Land Use	Site	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (Employed)	Varies	0	0	0	0	0
Arena (Attendees)	Varies	0	0	0	0	0
LA Clippers Organization Office	275 EMP	43,256	33,834	0	0	80,090
LA Clippers Team Practice & Training Facility	54 EMP	3,347	2,861	0	0	6,208
Sports Medicine Clinic	25 EMP	1,023	7,233	0	0	8,256
Community Space	15 TSP	38,426	20,813	0	0	67,439
Full-Service Plaza Restaurant/Bar	7 TSP	47,200	45,058	10,283	6,249	113,390
Full-Service Rooftop Restaurant/ Lounge	5 TSP	56,029	18,067	24,607	7,141	126,044
Coffee Shop	7 TSP	130,647	130,647	18,007	15,778	375,630
Quick-Service Restaurant (no drive thru)	6 TSP	102,610	105,383	15,047	13,622	356,532
LA Clippers Team Store	7 TSP	13,279	14,120	1,296	1,396	30,790
Other General Retail & Service	17 TSP	42,386	34,390	2,668	2,853	94,139
Hotel (no full service, no restaurant)	180 RM	91,564	85,134	84,873	7,839	310,492
<b>Total</b>		<b>1,558,820</b>	<b>595,113</b>	<b>831,030</b>	<b>58,280</b>	<b>3,043,243</b>

Land Use	Site	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (Employed)	Varies	0	0	0	0	0
Arena (Attendees)	Varies	0	0	0	0	0
LA Clippers Organization Office	275 EMP	44,729	32,348	0	0	76,877
LA Clippers Team Practice & Training Facility	54 EMP	3,347	2,861	0	0	6,208
Sports Medicine Clinic	25 EMP	1,023	7,233	0	0	8,256
Community Space	15 TSP	38,426	20,813	0	0	67,039
Full-Service Plaza Restaurant/Bar	7 TSP	43,663	41,605	10,294	5,937	102,159
Full-Service Rooftop Restaurant/ Lounge	5 TSP	55,649	18,897	24,607	7,281	126,044
Coffee Shop	7 TSP	128,142	128,142	18,553	15,339	371,999
Quick-Service Restaurant (no drive thru)	6 TSP	106,962	109,114	15,693	12,751	294,320
LA Clippers Team Store	7 TSP	13,411	13,844	1,296	1,396	30,512
Other General Retail & Service	17 TSP	32,652	25,214	2,668	2,853	93,930
Hotel (no full service, no restaurant)	180 RM	91,698	85,134	84,873	7,839	310,492
<b>Total</b>		<b>1,302,095</b>	<b>568,615</b>	<b>675,278</b>	<b>55,758</b>	<b>2,601,748</b>

Year	GHG Emissions without TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (Employed)	695.23	581.73	502.97	547.24	526.60	512.31	499.71	485.62	479.73	471.10	463.50	457.15	451.07	445.10	443.32	442.21	437.83	435.65	434.04	432.75	431.72	430.87	430.20	429.60	429.22	428.06	428.55
Arena (Attendees)	7795.54	7438.18	7161.56	6999.81	6793.54	6541.26	6374.47	6206.60	6134.82	6014.26	5918.30	5836.19	5766.18	5707.87	5651.63	5610.90	5581.40	5561.45	5541.14	5524.58	5511.46	5500.28	5491.40	5484.90	5479.56	5474.96	5470.59
LA Clippers Organization Office	237.76	304.25	312.76	309.54	295.87	285.61	278.50	272.92	267.43	262.60	258.43	254.73	251.37	248.23	245.23	242.33	241.12	240.30	239.60	239.00	238.50	238.10	237.70	237.30	236.90	236.50	236.10
LA Clippers Team Practice & Training Facility	58.69	55.53	54.52	52.75	51.18	49.10	48.57	47.58	46.62	45.70	45.06	44.43	43.90	43.45	43.09	42.78	42.54	42.34	42.18	42.06	41.95	41.87	41.81	41.76	41.71	41.68	41.65
Sports Medicine Clinic	413.70	397.16	383.01	374.50	365.58	349.53	341.18	334.29	327.54	321.65	316.52	312.12	308.38	305.26	302.68	300.54	298.83	297.45	296.34	295.44	294.76	294.18	293.72	293.35	293.05	292.80	292.59
Community Space	1102.86	1544.42	1442.92	1391.81	1364.62	1324.60	1291.99	1273.78	1256.80	1240.07	1224.36	1209.50	1195.49	1182.29	1169.89	1158.29	1147.50	1137.50	1128.29	1119.76	1111.90	1104.66	1097.99	1091.86	1086.22	1081.06	1076.33
Full-Service Plaza Restaurant/Bar	318.16	305.44	294.55	284.93	276.54	269.04	262.39	257.09	252.00	247.19	242.63	240.04	237.10	234.70	232.78	231.15	229.82	228.76	227.91	227.22	226.69	226.24	225.89	225.60	225.37	225.19	225.02
Full-Service Rooftop Restaurant/ Lounge	336.63	343.07	336.63	328.49	316.64	307.47	299.67	293.81	289.18	284.70	281.20	278.20	274.31	271.04	268.30	266.03	264.17	262.65	261.44	260.46	259.69	259.07	258.56	258.15	257.83	257.57	257.37
Coffee Shop	893.98	862.14	829.49	802.54	778.76	757.69	738.21	724.94	709.37	696.61	685.50	675.78	667.87	661.12	655.53	650.94	647.29	644.51	641.61	639.69	637.72	635.72	633.72	631.72	629.72	627.72	625.72
Quick-Service Restaurant (no drive thru)	638.41	656.11	632.16	632.16	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63	644.63
LA Clippers Team Store	92.44	83.74	85.58	82.80	80.35	78.17	76.23	74.69	73.17	71.67	70.32	69.24	68.41	67.71	67.13	66.65	66.27	65.95	65.68	65.45	65.26	65.10	64.96	64.84	64.74	64.66	64.59
Other General Retail & Service	224.49	215.52	207.84	201.09	195.12	189.83	185.14	181.40	177.74	174.54	171.76	169.37	167.34	165.63	164.25	163.10	162.16	161.41	160.81	160.33	159.95	159.63	159.36	159.12	158.91	158.71	158.52
Hotel (no full service, no restaurant)	5333.53	5022.60	486.69	468.69	453.44	442.71	433.76	426.04	419.54	414.26	409.18	404.30	399.59	395.03	390.60	386.39	382.37	378.52	374.82	371.25	367.81	364.48	361.25	358.11	355.05	352.05	349.11
<b>Total</b>	<b>17014.33</b>	<b>15917.88</b>	<b>15103.39</b>	<b>14513.66</b>	<b>13920.72</b>	<b>13326.58</b>	<b>12832.24</b>	<b>12437.80</b>	<b>12043.46</b>	<b>11649.22</b>	<b>11255.08</b>	<b>10861.04</b>	<b>10467.10</b>	<b>10073.26</b>	<b>9679.52</b>	<b>9285.88</b>	<b>8892.34</b>	<b>8498.90</b>	<b>8105.56</b>	<b>7712.32</b>	<b>7319.18</b>	<b>6926.14</b>	<b>6533.20</b>	<b>6140.36</b>	<b>5747.62</b>	<b>5354.98</b>	<b>4962.44</b>

Year	GHG Emissions with TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (Employed)	424.74	467.76	393.33	382.45	369.17	359.17	350.29	343.21	336.28	330.23	324.97	320.45	316.61	313.41	310.76	308.58	306.80	305.39	304.25	303.34	302.62	302.03	301.56	301.18	300.87	300.62	300.40
Arena (Attendees)	5409.48	5219.15	5028.18	4845.34	4701.79	4524.31	4411.18	4317.06	4233.31	4159.31	4094.75	4039.24	3982.32	3933.53	3892.38	3858.41	3830.21	3807.43	3789.84	3773.26	3757.50	3742.50	3728.20	3714.50	3701.40	3688.40	3675.50
LA Clippers Organization Office	300.27	305.04	297.06	287.41	278.89	271.33	264.52	258.04	252.00	246.47	241.40	236.78	232.50	228.56	224.94	221.64	218.64	215.92	213.47	211.28	209.34	207.64	206.16	204.88	203.70	202.60	201.58
LA Clippers Team Practice & Training Facility	55.25	53.71	51.79	50.11	48.67	47.31	46.14	45.21	44.29	43.50	42.80	42.21	41.70	41.29	40.93	40.65	40.41	40.22	40.08	39.96	39.86	39.78	39.71	39.67	39.63	39.60	39.57
Sports Medicine Clinic	405.05	388.65	375.00	367.81	361.61	349.51	341.51	334.01	327.36	321.30	315.78	310.63	305.80	301.33	297.18	293.33	289.76	286.44	283.34	280.44	277.72	275.16	272.74	270.44	268.24	266.14	264.14
Community Space	1575.51	151.22	145.83	141.09	136.51	132.20	128.17	124.27	120.51	116.84	113.21	111.41	111.33	111.34	111.44	111.54	111.63	111.73	111.83	111.93	112.03	112.13	112.23	112.33	112.43	112.53	112.63
Full-Service Plaza Restaurant/Bar	315.70	303.05	292.78	282.78	274.40	266.96	260.36	254.10	248.19	242.54	237.14	232.00	227.10	222.42	217.94	213.64	209.50	205.60	201.92	198.44	195.14	192.00	189.00	186.14	183.40	180.76	178.20
Full-Service Rooftop Restaurant/ Lounge	360.80	341.37	324.93	313.60	303.60	294.50	286.04	278.14	270.70	263.64	256.84	250.26	243.89	237.72	231.74	225.94	220.30	214.80	209.44	204.20	199.06	194.00	189.00	184.00	179.00	174.00	169.00
Coffee Shop	587.20	601.81	618.46	637.21	658.01	680.81	705.61	732.41	761.21	792.01	824.81	859.61	896.41	935.21	976.01	1018.81	1063.61	1110.41	1159.21	1210.01	1262.81	1317.61	1374.41	1433.21	1494.01	1556.81	1621.61
Quick-Service Restaurant (no drive thru)	678.16	654.04	627.84	607.44	589.44	573.45	559.28	547.98	538.92	532.26	526.86	521.66	516.66	511.86	507.44	493.44	489.86	487.60	485.78	484.33	483.18	482.23	481.48	480.83	480.39	479.98	479.63
LA Clippers Team Store	91.86	86.13	85.04	82.29	79.98	77.89	75.76	73.23	72.73	71.42	70.28	69.30	68.47	67.79	67.21	66.74	66.36	66.05	65.80	65.59	65.42	65.27	65.14	65.01	64.89	64.79	64.70
Other General Retail & Service	293.00	284.17	280.54	276.54	273.00	269.82	266.95	264.36	262.00	259.84	257.84	256.00	254.32	252.78	251.36	250.04	248.82	247.70	246.66	245.68	244.76	243.88	243.04	242.24	241.48	240.76	240.08
Hotel (no full service, no restaurant)	5333.53	5022.60	486.69	468.64	453.44	442.71	433.76	426.04	419.54	414.26	409.18	404.30	399.59	395.03	390.60	386.39	382.37	378.52	374.82	371.25	367.81	364.48	361.25	358.11	355.05	352.05	349.11
<b>Total</b>	<b>9856.05</b>	<b>9159.87</b>	<b>8727.88</b>	<b>8426.39</b>	<b>8146.96</b>	<b>7887.30</b>	<b>7647.64</b>	<b>7427.00</b>	<b>7225.36</b>	<b>7042.72</b>	<b>6879.08</b>	<b>6724.44</b>	<b>6578.80</b>	<b>6441.16</b>	<b>6311.52</b>	<b>6189.88</b>	<b></b>										



Mobile Sources - Delivery Trips

Trip Type	Daily Delivery Trips	Total Vehicle Trips per Year	Trip Length	Total VMT	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Delivery Trips	50	25,987	6.9	179,307.43	132.96	131.19	130.02	128.85	127.68	126.51	125.35	124.78	124.21	123.65	123.08	122.51	122.49	122.47	122.45

Notes:

Daily delivery trips assumes 5 days per week for 52 weeks per year

CalEEMod Default Trip Length for Commercial-Nonwork trips in Los Angeles County

Delivery trips associated with the main event center are assumed to be 8 per day.

Delivery trips for all other ancillary land uses based NCHRP Synthesis 298: 2001

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
122.43	122.41	122.61	122.82	123.02	123.22	123.43	123.81	124.20	124.58	124.97	125.36	125.36	125.36	125.36	125.36

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
EMFAC2014 CO <sub>2</sub> Emission Factors (gram per mile)	741.4965416	731.6247535	725.1112381	718.5977	712.0842	705.5707	699.0572	695.8966	692.736	689.5755	686.4149	683.2543	683.1398648	683.0254	682.9109
EMFAC2014 CO <sub>2</sub> Emission Factors (MT per mile)	0.000741497	0.000731625	0.000725111	0.000719	0.000712	0.000706	0.000699	0.000696	0.000693	0.00069	0.000686	0.000683	0.00068314	0.000683	0.000683

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
682.7964676	682.6820018	683.8153	684.9487	686.082	687.2153	688.3487	690.5012	692.6538	694.8063	696.9589	699.114719	699.1115	699.1115	699.1115	699.1115
0.000682796	0.000682682	0.000684	0.000685	0.000686	0.000687	0.000688	0.000691	0.000693	0.000695	0.000697	0.000699111	0.000699	0.000699	0.000699	0.000699

Conversion Factors	
gram	MT
1000000	1

Delivery Trips Assumptions				
Land Use	Truck Trip Rate per 1,000 SF	Land Use (SF)	1000 SF	Trips
Fast Food	0.77	9,000.00	9.00	6.93
Hotel	0.034	217,800.00	217.80	7.41
Quality Restaurant	1.209	15,000.00	15.00	18.14
Retail	0.396	24,000.00	24.00	9.50

Source: NCHRP 2001

**Mobile Source Emissions**

Arena rows include trips associated with LA Clippers NBA Games only.

Existing (Average Event Attendees)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	44,282	0	19,534	0	63,816
Arena (attendees)	Varies	410,158	0	164,736	0	574,894
LA Clippers Organization Office	275 EMP	25,506	45,042	0	0	70,548
LA Clippers Team Practice & Training Facility	54 EMP	5,010	7,300	0	0	12,310
	<b>Total</b>	<b>484,956</b>	<b>52,342</b>	<b>184,270</b>	<b>0</b>	<b>721,568</b>

Existing NBA Games GHG EMISSIONS
<b>2018</b>
328.856159
3905.715588
363.5474538
63.43580478
<b>4,661.56</b>

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	2018
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	350.5573
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.000351

**Mobile Source Emissions**

Arena rows include trips associated with 50% market-shifted events only

Existing (Average Event Attendees) (Tables 1 and 2)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	12,628	0	11,920	0	24,548
Arena (attendees)	Varies	120,982	0	108,488	0	229,470
LA Clippers Organization Office	275 EMP	25,506	45,042	0	0	70,548
LA Clippers Team Practice & Training Facility	54 EMP	5,010	7,300	0	0	12,310
	<b>Total</b>	<b>164,126</b>	<b>52,342</b>	<b>120,408</b>	<b>0</b>	<b>336,876</b>

Existing Market Shifted GHG EMISSIONS
<b>2018</b>
126.5005797
1558.973578
363.5474538
63.43580478
<b>2,112.46</b>

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	2018
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	350.5573
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.000351

## **Water Consumption Estimates**

**Water Consumption Estimates by Land Use**

Component	Size	Estimated Demand (Mgal / year)	
		Indoor	Outdoor
Arena	915,000 SF	7.42002	0.852384
Restaurant / Bar / Lounge	15,000 SF	4.55301	0.290617
Office	71,000 SF	12.61910	7.734280
Quick-Service Restaurant and Coffee Shop	9,000 SF	2.73180	0.174370
Practice and Training Facility	85,000 SF	5.02717	3.081170
Sports Medicine Clinic	25,000 SF	3.13701	0.597526
Team Store and Retail	24,000 SF	1.77774	1.089580
Community Space	15,000 SF	2.97990	1.826390
Hotel	150 rooms	3.80502	0.422779
<b>TOTAL</b>		<b>44.05077</b>	<b>16.069096</b>

Notes: SF = square feet; Mgal= million gallons

## **CalEEMod Run Outputs**



**IBEC Project Operations  
CalEEMod Run Outputs**

IBEC Operations - Los Angeles-South Coast County, Annual

**IBEC Operations**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	476.2	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

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tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	5,843.6293	5,843.6293	0.0226	0.0216	5,850.6345
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	162.4569	176.4321	1.4354	0.0339	222.4170
<b>Total</b>	<b>5.9949</b>	<b>1.6985</b>	<b>1.3318</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>501.1008</b>	<b>6,070.0470</b>	<b>6,571.1478</b>	<b>30.2556</b>	<b>0.0555</b>	<b>7,344.0781</b>

IBEC Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	5,436.2541	5,436.2541	0.0209	0.0200	5,442.7467
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	106.0074	115.7901	1.0048	0.0237	147.9795
<b>Total</b>	<b>5.9862</b>	<b>1.6193</b>	<b>1.2652</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>496.9082</b>	<b>5,606.2224</b>	<b>6,103.1306</b>	<b>29.8233</b>	<b>0.0438</b>	<b>6,861.7528</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	4.67	5.00	6.69	0.00	5.86	5.86	0.00	5.86	5.86	0.84	7.64	7.12	1.43	21.17	6.57

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction







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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		



## IBEC Operations - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

## 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	4,343.6839	4,343.6839	0.0000	0.0000	4,343.6839
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,664.7961	4,664.7961	0.0000	0.0000	4,664.7961
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003			0.0763	0.0763		0.0763	0.0763	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003			0.0823	0.0823		0.0823	0.0823	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1191</b>	<b>1.0829</b>	<b>0.9096</b>	<b>6.4900e-003</b>		<b>0.0823</b>	<b>0.0823</b>		<b>0.0823</b>	<b>0.0823</b>	<b>0.0000</b>	<b>1,178.8332</b>	<b>1,178.8332</b>	<b>0.0226</b>	<b>0.0216</b>	<b>1,185.8384</b>

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1104</b>	<b>1.0036</b>	<b>0.8430</b>	<b>6.0200e-003</b>		<b>0.0763</b>	<b>0.0763</b>		<b>0.0763</b>	<b>0.0763</b>	<b>0.0000</b>	<b>1,092.5702</b>	<b>1,092.5702</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,099.0628</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	3,820.3933	0.0000	0.0000	3,820.3933
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	425.2863	0.0000	0.0000	425.2863
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	9.5256	0.0000	0.0000	9.5256
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	409.5908	0.0000	0.0000	409.5908
<b>Total</b>		<b>4,664.7961</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,664.7961</b>

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	3,728.6456	0.0000	0.0000	3,728.6456
Enclosed Parking Structure	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Fast Food Restaurant w/o Drive Thru	-83461.5	-18.0278	0.0000	0.0000	-18.0278
General Office Building	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Government (Civic Center)	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Health Club	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Hotel	1.82512e+006	394.2271	0.0000	0.0000	394.2271
Medical Office Building	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Other Non-Asphalt Surfaces	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Parking Lot	-39361.5	-8.5021	0.0000	0.0000	-8.5021
Quality Restaurant	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Strip Mall	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Unenclosed Parking Structure	1.81279e+006	391.5630	0.0000	0.0000	391.5630
<b>Total</b>		<b>4,343.6839</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,343.6839</b>

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Unmitigated	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484



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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-003	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
<b>Total</b>	<b>5.7383</b>	<b>6.5000e-004</b>	<b>0.0715</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1484</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-003	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
<b>Total</b>	<b>5.7383</b>	<b>6.5000e-004</b>	<b>0.0715</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1484</b>

7.0 Water Detail

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	115.7901	1.0048	0.0237	147.9795
Unmitigated	176.4321	1.4354	0.0339	222.4170

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	25.2687	0.2418	5.7100e-003	33.0145
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	8.9684	0.0890	2.1000e-003	11.8202
General Office Building	12.6191 / 7.73428	58.0557	0.4112	9.7100e-003	71.2289
Government (Civic Center)	2.9799 / 1.82639	13.7094	0.0971	2.2900e-003	16.8201
Health Club	5.02717 / 3.08117	23.1281	0.1638	3.8700e-003	28.3760
Hotel	3.80502 / 0.422779	12.9235	0.1240	2.9300e-003	16.8956
Medical Office Building	3.13701 / 0.597526	11.2522	0.1022	2.4100e-003	14.5269
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	14.9474	0.1484	3.5000e-003	19.7003
Strip Mall	1.77774 / 1.08958	8.1787	0.0579	1.3700e-003	10.0345
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>176.4322</b>	<b>1.4354</b>	<b>0.0339</b>	<b>222.4170</b>

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	17.2790	0.1693	4.0000e-003	22.7011
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	6.1942	0.0623	1.4700e-003	8.1905
General Office Building	8.83337 / 3.86714	36.9269	0.2878	6.8000e-003	46.1481
Government (Civic Center)	2.08593 / 0.913194	8.7200	0.0680	1.6000e-003	10.8975
Health Club	3.51902 / 1.54058	14.7109	0.1147	2.7100e-003	18.3844
Hotel	2.66351 / 0.21139	8.8435	0.0868	2.0500e-003	11.6240
Medical Office Building	2.19591 / 0.298763	7.5897	0.0716	1.6900e-003	9.8820
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	10.3237	0.1039	2.4500e-003	13.6507
Strip Mall	1.24442 / 0.544791	5.2022	0.0406	9.6000e-004	6.5012
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>115.7901</b>	<b>1.0048</b>	<b>0.0237</b>	<b>147.9795</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

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**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>



IBEC Operations - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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IBEC Operations - Los Angeles-South Coast County, Annual

**IBEC Operations**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	468.7	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	468.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

## 2.0 Emissions Summary

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IBEC Operations - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	5,770.1602	5,770.1602	0.0226	0.0216	5,777.1654
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	159.8982	173.8735	1.4354	0.0339	219.8584
<b>Total</b>	<b>5.9949</b>	<b>1.6985</b>	<b>1.3317</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>501.1008</b>	<b>5,994.0193</b>	<b>6,495.1201</b>	<b>30.2556</b>	<b>0.0555</b>	<b>7,268.0504</b>

IBEC Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	5,367.8425	5,367.8425	0.0209	0.0200	5,374.3351
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	104.3378	114.1205	1.0048	0.0237	146.3099
<b>Total</b>	<b>5.9862</b>	<b>1.6193</b>	<b>1.2651</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>496.9082</b>	<b>5,536.1411</b>	<b>6,033.0494</b>	<b>29.8233</b>	<b>0.0438</b>	<b>6,791.6715</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	4.67	5.00	6.69	0.00	5.86	5.86	0.00	5.86	5.86	0.84	7.64	7.11	1.43	21.17	6.55

3.0 Construction Detail

Construction Phase

IBEC Operations - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction







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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		



## IBEC Operations - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

## IBEC Operations - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

## 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,275.2723	4,275.2723	0.0000	0.0000	4,275.2723
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,591.3270	4,591.3270	0.0000	0.0000	4,591.3270
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1191</b>	<b>1.0829</b>	<b>0.9096</b>	<b>6.4900e-003</b>		<b>0.0823</b>	<b>0.0823</b>		<b>0.0823</b>	<b>0.0823</b>	<b>0.0000</b>	<b>1,178.8332</b>	<b>1,178.8332</b>	<b>0.0226</b>	<b>0.0216</b>	<b>1,185.8384</b>

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1104</b>	<b>1.0036</b>	<b>0.8430</b>	<b>6.0200e-003</b>		<b>0.0763</b>	<b>0.0763</b>		<b>0.0763</b>	<b>0.0763</b>	<b>0.0000</b>	<b>1,092.5702</b>	<b>1,092.5702</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,099.0628</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.7687e+007	3,760.2234	0.0000	0.0000	3,760.2234
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	418.5882	0.0000	0.0000	418.5882
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	9.3756	0.0000	0.0000	9.3756
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	403.1398	0.0000	0.0000	403.1398
<b>Total</b>		<b>4,591.3270</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,591.3270</b>

IBEC Operations - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	3,669.9207	0.0000	0.0000	3,669.9207
Enclosed Parking Structure	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Fast Food Restaurant w/o Drive Thru	-83461.5	-17.7438	0.0000	0.0000	-17.7438
General Office Building	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Government (Civic Center)	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Health Club	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Hotel	1.82512e+006	388.0182	0.0000	0.0000	388.0182
Medical Office Building	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Other Non-Asphalt Surfaces	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Parking Lot	-39361.5	-8.3682	0.0000	0.0000	-8.3682
Quality Restaurant	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Strip Mall	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Unenclosed Parking Structure	1.81279e+006	385.3960	0.0000	0.0000	385.3960
<b>Total</b>		<b>4,275.2723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,275.2723</b>

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Unmitigated	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483



IBEC Operations - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5800e-003	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
<b>Total</b>	<b>5.7382</b>	<b>6.5000e-004</b>	<b>0.0714</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1483</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5800e-003	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
<b>Total</b>	<b>5.7382</b>	<b>6.5000e-004</b>	<b>0.0714</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1483</b>

7.0 Water Detail

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	114.1205	1.0048	0.0237	146.3099
Unmitigated	173.8735	1.4354	0.0339	219.8584

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	24.9078	0.2418	5.7100e-003	32.6536
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	8.8408	0.0890	2.1000e-003	11.6926
General Office Building	12.6191 / 7.73428	57.2044	0.4112	9.7100e-003	70.3776
Government (Civic Center)	2.9799 / 1.82639	13.5084	0.0971	2.2900e-003	16.6191
Health Club	5.02717 / 3.08117	22.7890	0.1638	3.8700e-003	28.0369
Hotel	3.80502 / 0.422779	12.7390	0.1240	2.9300e-003	16.7111
Medical Office Building	3.13701 / 0.597526	11.0906	0.1022	2.4100e-003	14.3654
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	14.7347	0.1484	3.5000e-003	19.4877
Strip Mall	1.77774 / 1.08958	8.0588	0.0579	1.3700e-003	9.9146
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>173.8735</b>	<b>1.4354</b>	<b>0.0339</b>	<b>219.8584</b>

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	17.0328	0.1693	4.0000e-003	22.4549
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	6.1062	0.0623	1.4700e-003	8.1024
General Office Building	8.83337 / 3.86714	36.3895	0.2878	6.8000e-003	45.6107
Government (Civic Center)	2.08593 / 0.913194	8.5931	0.0680	1.6000e-003	10.7706
Health Club	3.51902 / 1.54058	14.4968	0.1147	2.7100e-003	18.1703
Hotel	2.66351 / 0.21139	8.7176	0.0868	2.0500e-003	11.4980
Medical Office Building	2.19591 / 0.298763	7.4812	0.0716	1.6900e-003	9.7735
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	10.1770	0.1039	2.4500e-003	13.5041
Strip Mall	1.24442 / 0.544791	5.1264	0.0406	9.6000e-004	6.4255
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>114.1205</b>	<b>1.0048</b>	<b>0.0237</b>	<b>146.3099</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>



IBEC Operations - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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## IBEC Operations - Los Angeles-South Coast County, Annual

## IBEC Operations

### Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	432.11	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	432.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

## 2.0 Emissions Summary

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IBEC Operations - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	5,411.729 1	5,411.729 1	0.0226	0.0216	5,418.734 3
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.832 9
Water						0.0000	0.0000		0.0000	0.0000	13.9753	147.4154	161.3907	1.4354	0.0339	207.3756
<b>Total</b>	<b>5.9948</b>	<b>1.6985</b>	<b>1.3315</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>501.1008</b>	<b>5,623.105 4</b>	<b>6,124.206 2</b>	<b>30.2556</b>	<b>0.0555</b>	<b>6,897.136 4</b>

IBEC Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	5,034.0848	5,034.0848	0.0209	0.0200	5,040.5774
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	96.1925	105.9752	1.0048	0.0237	138.1646
<b>Total</b>	<b>5.9861</b>	<b>1.6193</b>	<b>1.2650</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>496.9082</b>	<b>5,194.2381</b>	<b>5,691.1464</b>	<b>29.8233</b>	<b>0.0438</b>	<b>6,449.7684</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	4.67	5.00	6.69	0.00	5.86	5.86	0.00	5.86	5.86	0.84	7.63	7.07	1.43	21.17	6.49

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		



## IBEC Operations - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

## IBEC Operations - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

## 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	3,941.5146	3,941.5146	0.0000	0.0000	3,941.5146
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,232.8959	4,232.8959	0.0000	0.0000	4,232.8959
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003			0.0763	0.0763		0.0763	0.0763	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003			0.0823	0.0823		0.0823	0.0823	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1191</b>	<b>1.0829</b>	<b>0.9096</b>	<b>6.4900e-003</b>		<b>0.0823</b>	<b>0.0823</b>		<b>0.0823</b>	<b>0.0823</b>	<b>0.0000</b>	<b>1,178.8332</b>	<b>1,178.8332</b>	<b>0.0226</b>	<b>0.0216</b>	<b>1,185.8384</b>

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1104</b>	<b>1.0036</b>	<b>0.8430</b>	<b>6.0200e-003</b>		<b>0.0763</b>	<b>0.0763</b>		<b>0.0763</b>	<b>0.0763</b>	<b>0.0000</b>	<b>1,092.5702</b>	<b>1,092.5702</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,099.0628</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.7687e+007	3,466.6740	0.0000	0.0000	3,466.6740
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	385.9103	0.0000	0.0000	385.9103
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	8.6437	0.0000	0.0000	8.6437
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	371.6679	0.0000	0.0000	371.6679
<b>Total</b>		<b>4,232.8959</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,232.8959</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	3,383.4210	0.0000	0.0000	3,383.4210
Enclosed Parking Structure	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Fast Food Restaurant w/o Drive Thru	-83461.5	-16.3586	0.0000	0.0000	-16.3586
General Office Building	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Government (Civic Center)	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Health Club	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Hotel	1.82512e+006	357.7268	0.0000	0.0000	357.7268
Medical Office Building	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Other Non-Asphalt Surfaces	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Parking Lot	-39361.5	-7.7149	0.0000	0.0000	-7.7149
Quality Restaurant	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Strip Mall	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Unenclosed Parking Structure	1.81279e+006	355.3093	0.0000	0.0000	355.3093
<b>Total</b>		<b>3,941.5146</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,941.5146</b>

IBEC Operations - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Unmitigated	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483



IBEC Operations - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0713</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1483</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0713</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1483</b>

7.0 Water Detail

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	105.9752	1.0048	0.0237	138.1646
Unmitigated	161.3907	1.4354	0.0339	207.3756

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	23.1471	0.2418	5.7100e-003	30.8929
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	8.2183	0.0890	2.1000e-003	11.0701
General Office Building	12.6191 / 7.73428	53.0512	0.4112	9.7100e-003	66.2243
Government (Civic Center)	2.9799 / 1.82639	12.5276	0.0971	2.2900e-003	15.6383
Health Club	5.02717 / 3.08117	21.1344	0.1638	3.8700e-003	26.3823
Hotel	3.80502 / 0.422779	11.8387	0.1240	2.9300e-003	15.8108
Medical Office Building	3.13701 / 0.597526	10.3025	0.1022	2.4100e-003	13.5772
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	13.6972	0.1484	3.5000e-003	18.4501
Strip Mall	1.77774 / 1.08958	7.4737	0.0579	1.3700e-003	9.3295
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>161.3907</b>	<b>1.4354</b>	<b>0.0339</b>	<b>207.3756</b>

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	15.8318	0.1693	4.0000e-003	21.2538
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	5.6769	0.0623	1.4700e-003	7.6731
General Office Building	8.83337 / 3.86714	33.7674	0.2878	6.8000e-003	42.9886
Government (Civic Center)	2.08593 / 0.913194	7.9739	0.0680	1.6000e-003	10.1514
Health Club	3.51902 / 1.54058	13.4522	0.1147	2.7100e-003	17.1257
Hotel	2.66351 / 0.21139	8.1030	0.0868	2.0500e-003	10.8834
Medical Office Building	2.19591 / 0.298763	6.9515	0.0716	1.6900e-003	9.2438
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	9.4615	0.1039	2.4500e-003	12.7885
Strip Mall	1.24442 / 0.544791	4.7571	0.0406	9.6000e-004	6.0561
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>105.9752</b>	<b>1.0048</b>	<b>0.0237</b>	<b>138.1646</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>



IBEC Operations - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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## IBEC Operations - Los Angeles-South Coast County, Annual

## IBEC Operations

### Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	288.07	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

IBEC Operations - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	288.07
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	4,000.7312	4,000.7312	0.0226	0.0216	4,007.7364
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	98.2758	112.2511	1.4354	0.0339	158.2360
<b>Total</b>	<b>5.9948</b>	<b>1.6985</b>	<b>1.3315</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>501.1008</b>	<b>4,162.9679</b>	<b>4,664.0687</b>	<b>30.2556</b>	<b>0.0555</b>	<b>5,436.9988</b>

IBEC Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	3,720.2162	3,720.2162	0.0209	0.0200	3,726.7088
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	64.1276	73.9103	1.0048	0.0237	106.0997
<b>Total</b>	<b>5.9861</b>	<b>1.6193</b>	<b>1.2649</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>496.9082</b>	<b>3,848.3046</b>	<b>4,345.2129</b>	<b>29.8233</b>	<b>0.0438</b>	<b>5,103.8349</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	4.67	5.00	6.69	0.00	5.86	5.86	0.00	5.86	5.86	0.84	7.56	6.84	1.43	21.17	6.13

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		



## IBEC Operations - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

## IBEC Operations - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

## 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,627.6460	2,627.6460	0.0000	0.0000	2,627.6460
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,821.8980	2,821.8980	0.0000	0.0000	2,821.8980
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1191</b>	<b>1.0829</b>	<b>0.9096</b>	<b>6.4900e-003</b>		<b>0.0823</b>	<b>0.0823</b>		<b>0.0823</b>	<b>0.0823</b>	<b>0.0000</b>	<b>1,178.8332</b>	<b>1,178.8332</b>	<b>0.0226</b>	<b>0.0216</b>	<b>1,185.8384</b>

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1104</b>	<b>1.0036</b>	<b>0.8430</b>	<b>6.0200e-003</b>		<b>0.0763</b>	<b>0.0763</b>		<b>0.0763</b>	<b>0.0763</b>	<b>0.0000</b>	<b>1,092.5702</b>	<b>1,092.5702</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,099.0628</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.7687e+007	2,311.0893	0.0000	0.0000	2,311.0893
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	257.2706	0.0000	0.0000	257.2706
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	5.7624	0.0000	0.0000	5.7624
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	247.7758	0.0000	0.0000	247.7758
<b>Total</b>		<b>2,821.8980</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2,821.8980</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	2,255.5879	0.0000	0.0000	2,255.5879
Enclosed Parking Structure	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Fast Food Restaurant w/o Drive Thru	-83461.5	-10.9056	0.0000	0.0000	-10.9056
General Office Building	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Government (Civic Center)	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Health Club	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Hotel	1.82512e+006	238.4818	0.0000	0.0000	238.4818
Medical Office Building	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Other Non-Asphalt Surfaces	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Parking Lot	-39361.5	-5.1432	0.0000	0.0000	-5.1432
Quality Restaurant	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Strip Mall	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Unenclosed Parking Structure	1.81279e+006	236.8701	0.0000	0.0000	236.8701
<b>Total</b>		<b>2,627.6461</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2,627.6461</b>

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Unmitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482



IBEC Operations - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0712</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1482</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0712</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1482</b>

7.0 Water Detail

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	73.9103	1.0048	0.0237	106.0997
Unmitigated	112.2511	1.4354	0.0339	158.2360

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	16.2159	0.2418	5.7100e-003	23.9617
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	5.7677	0.0890	2.1000e-003	8.6195
General Office Building	12.6191 / 7.73428	36.7016	0.4112	9.7100e-003	49.8747
Government (Civic Center)	2.9799 / 1.82639	8.6668	0.0971	2.2900e-003	11.7775
Health Club	5.02717 / 3.08117	14.6211	0.1638	3.8700e-003	19.8690
Hotel	3.80502 / 0.422779	8.2948	0.1240	2.9300e-003	12.2669
Medical Office Building	3.13701 / 0.597526	7.2000	0.1022	2.4100e-003	10.4748
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	9.6129	0.1484	3.5000e-003	14.3658
Strip Mall	1.77774 / 1.08958	5.1704	0.0579	1.3700e-003	7.0262
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>112.2511</b>	<b>1.4354</b>	<b>0.0339</b>	<b>158.2360</b>

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	11.1037	0.1693	4.0000e-003	16.5257
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	3.9868	0.0623	1.4700e-003	5.9830
General Office Building	8.83337 / 3.86714	23.4455	0.2878	6.8000e-003	32.6667
Government (Civic Center)	2.08593 / 0.913194	5.5365	0.0680	1.6000e-003	7.7140
Health Club	3.51902 / 1.54058	9.3402	0.1147	2.7100e-003	13.0137
Hotel	2.66351 / 0.21139	5.6836	0.0868	2.0500e-003	8.4641
Medical Office Building	2.19591 / 0.298763	4.8665	0.0716	1.6900e-003	7.1588
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	6.6446	0.1039	2.4500e-003	9.9717
Strip Mall	1.24442 / 0.544791	3.3029	0.0406	9.6000e-004	4.6020
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>73.9103</b>	<b>1.0048</b>	<b>0.0237</b>	<b>106.0997</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>



IBEC Operations - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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## IBEC Operations - Los Angeles-South Coast County, Annual

**IBEC Operations**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	144.04	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	144.04
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

## 2.0 Emissions Summary

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IBEC Operations - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	2,589.831 2	2,589.831 2	0.0226	0.0216	2,596.836 4
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.832 9
Water						0.0000	0.0000		0.0000	0.0000	13.9753	49.1396	63.1149	1.4354	0.0339	109.0998
<b>Total</b>	<b>5.9948</b>	<b>1.6985</b>	<b>1.3314</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>501.1008</b>	<b>2,702.931 7</b>	<b>3,204.032 5</b>	<b>30.2556</b>	<b>0.0555</b>	<b>3,976.962 6</b>

IBEC Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	2,406.4388	2,406.4388	0.0209	0.0200	2,412.9314
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	32.0649	41.8476	1.0048	0.0237	74.0370
<b>Total</b>	<b>5.9861</b>	<b>1.6193</b>	<b>1.2649</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>496.9082</b>	<b>2,502.4646</b>	<b>2,999.3728</b>	<b>29.8233</b>	<b>0.0438</b>	<b>3,757.9949</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	4.67	5.00	6.69	0.00	5.86	5.86	0.00	5.86	5.86	0.84	7.42	6.39	1.43	21.17	5.51

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







IBEC Operations - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		



## IBEC Operations - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

## IBEC Operations - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

## 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,313.8686	1,313.8686	0.0000	0.0000	1,313.8686
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,410.9980	1,410.9980	0.0000	0.0000	1,410.9980
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1191</b>	<b>1.0829</b>	<b>0.9096</b>	<b>6.4900e-003</b>		<b>0.0823</b>	<b>0.0823</b>		<b>0.0823</b>	<b>0.0823</b>	<b>0.0000</b>	<b>1,178.8332</b>	<b>1,178.8332</b>	<b>0.0226</b>	<b>0.0216</b>	<b>1,185.8384</b>

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1104</b>	<b>1.0036</b>	<b>0.8430</b>	<b>6.0200e-003</b>		<b>0.0763</b>	<b>0.0763</b>		<b>0.0763</b>	<b>0.0763</b>	<b>0.0000</b>	<b>1,092.5702</b>	<b>1,092.5702</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,099.0628</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.7687e+007	1,155.5848	0.0000	0.0000	1,155.5848
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	128.6397	0.0000	0.0000	128.6397
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	2.8813	0.0000	0.0000	2.8813
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	123.8922	0.0000	0.0000	123.8922
<b>Total</b>		<b>1,410.9980</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,410.9980</b>

IBEC Operations - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	1,127.8331	0.0000	0.0000	1,127.8331
Enclosed Parking Structure	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Fast Food Restaurant w/o Drive Thru	-83461.5	-5.4530	0.0000	0.0000	-5.4530
General Office Building	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Government (Civic Center)	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Health Club	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Hotel	1.82512e+006	119.2450	0.0000	0.0000	119.2450
Medical Office Building	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Other Non-Asphalt Surfaces	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Parking Lot	-39361.5	-2.5717	0.0000	0.0000	-2.5717
Quality Restaurant	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Strip Mall	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Unenclosed Parking Structure	1.81279e+006	118.4392	0.0000	0.0000	118.4392
<b>Total</b>		<b>1,313.8686</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,313.8686</b>

IBEC Operations - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Unmitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482



IBEC Operations - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0712</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1482</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0712</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1482</b>

7.0 Water Detail

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.8476	1.0048	0.0237	74.0370
Unmitigated	63.1149	1.4354	0.0339	109.0998

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	9.2852	0.2418	5.7100e-003	17.0310
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	3.3173	0.0890	2.1000e-003	6.1690
General Office Building	12.6191 / 7.73428	20.3531	0.4112	9.7100e-003	33.5262
Government (Civic Center)	2.9799 / 1.82639	4.8062	0.0971	2.2900e-003	7.9170
Health Club	5.02717 / 3.08117	8.1082	0.1638	3.8700e-003	13.3561
Hotel	3.80502 / 0.422779	4.7511	0.1240	2.9300e-003	8.7232
Medical Office Building	3.13701 / 0.597526	4.0977	0.1022	2.4100e-003	7.3725
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	5.5288	0.1484	3.5000e-003	10.2817
Strip Mall	1.77774 / 1.08958	2.8673	0.0579	1.3700e-003	4.7231
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>63.1149</b>	<b>1.4354</b>	<b>0.0339</b>	<b>109.0998</b>

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	6.3759	0.1693	4.0000e-003	11.7980
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	2.2968	0.0623	1.4700e-003	4.2930
General Office Building	8.83337 / 3.86714	13.1243	0.2878	6.8000e-003	22.3455
Government (Civic Center)	2.08593 / 0.913194	3.0992	0.0680	1.6000e-003	5.2767
Health Club	3.51902 / 1.54058	5.2284	0.1147	2.7100e-003	8.9020
Hotel	2.66351 / 0.21139	3.2644	0.0868	2.0500e-003	6.0449
Medical Office Building	2.19591 / 0.298763	2.7817	0.0716	1.6900e-003	5.0740
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	3.8280	0.1039	2.4500e-003	7.1550
Strip Mall	1.24442 / 0.544791	1.8489	0.0406	9.6000e-004	3.1480
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>41.8476</b>	<b>1.0048</b>	<b>0.0237</b>	<b>74.0370</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>



IBEC Operations - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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## IBEC Operations - Los Angeles-South Coast County, Annual

**IBEC Operations**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2045
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

IBEC Operations - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

## IBEC Operations - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

## 2.0 Emissions Summary

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IBEC Operations - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	0.0000	13.9753	1.4354	0.0339	59.9602
<b>Total</b>	<b>5.9948</b>	<b>1.6985</b>	<b>1.3314</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>	<b>501.1008</b>	<b>1,242.7941</b>	<b>1,743.8949</b>	<b>30.2556</b>	<b>0.0555</b>	<b>2,516.8251</b>

IBEC Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	0.0000	9.7827	1.0048	0.0237	41.9721
<b>Total</b>	<b>5.9861</b>	<b>1.6193</b>	<b>1.2649</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>0.0000</b>	<b>0.0968</b>	<b>0.0968</b>	<b>496.9082</b>	<b>1,156.5311</b>	<b>1,653.4393</b>	<b>29.8233</b>	<b>0.0438</b>	<b>2,412.0614</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	4.67	5.00	6.69	0.00	5.86	5.86	0.00	5.86	5.86	0.84	6.94	5.19	1.43	21.17	4.16

3.0 Construction Detail

Construction Phase

IBEC Operations - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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IBEC Operations - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		



## IBEC Operations - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1191</b>	<b>1.0829</b>	<b>0.9096</b>	<b>6.4900e-003</b>		<b>0.0823</b>	<b>0.0823</b>		<b>0.0823</b>	<b>0.0823</b>	<b>0.0000</b>	<b>1,178.8332</b>	<b>1,178.8332</b>	<b>0.0226</b>	<b>0.0216</b>	<b>1,185.8384</b>

IBEC Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1104</b>	<b>1.0036</b>	<b>0.8430</b>	<b>6.0200e-003</b>		<b>0.0763</b>	<b>0.0763</b>		<b>0.0763</b>	<b>0.0763</b>	<b>0.0000</b>	<b>1,092.5702</b>	<b>1,092.5702</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,099.0628</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Arena	1.7687e+007	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	-83461.5	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	-83461.5	0.0000	0.0000	0.0000	0.0000
General Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	-83461.5	0.0000	0.0000	0.0000	0.0000
Health Club	-83461.5	0.0000	0.0000	0.0000	0.0000
Hotel	1.82512e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	-83461.5	0.0000	0.0000	0.0000	0.0000
Parking Lot	-39361.5	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	-83461.5	0.0000	0.0000	0.0000	0.0000
Strip Mall	-83461.5	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.81279e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Operations - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Unmitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482



IBEC Operations - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0712</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1482</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
<b>Total</b>	<b>5.7382</b>	<b>6.4000e-004</b>	<b>0.0712</b>	<b>1.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.1393</b>	<b>0.1393</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.1482</b>

7.0 Water Detail

IBEC Operations - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.7827	1.0048	0.0237	41.9721
Unmitigated	13.9753	1.4354	0.0339	59.9602

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	2.3540	0.2418	5.7100e-003	10.0999
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	0.8667	0.0890	2.1000e-003	3.7184
General Office Building	12.6191 / 7.73428	4.0035	0.4112	9.7100e-003	17.1766
Government (Civic Center)	2.9799 / 1.82639	0.9454	0.0971	2.2900e-003	4.0561
Health Club	5.02717 / 3.08117	1.5949	0.1638	3.8700e-003	6.8428
Hotel	3.80502 / 0.422779	1.2072	0.1240	2.9300e-003	5.1792
Medical Office Building	3.13701 / 0.597526	0.9952	0.1022	2.4100e-003	4.2700
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	1.4445	0.1484	3.5000e-003	6.1974
Strip Mall	1.77774 / 1.08958	0.5640	0.0579	1.3700e-003	2.4198
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.9753</b>	<b>1.4354</b>	<b>0.0339</b>	<b>59.9602</b>

IBEC Operations - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	1.6478	0.1693	4.0000e-003	7.0699
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	0.6067	0.0623	1.4700e-003	2.6029
General Office Building	8.83337 / 3.86714	2.8024	0.2878	6.8000e-003	12.0236
Government (Civic Center)	2.08593 / 0.913194	0.6618	0.0680	1.6000e-003	2.8393
Health Club	3.51902 / 1.54058	1.1164	0.1147	2.7100e-003	4.7900
Hotel	2.66351 / 0.21139	0.8450	0.0868	2.0500e-003	3.6255
Medical Office Building	2.19591 / 0.298763	0.6967	0.0716	1.6900e-003	2.9890
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	1.0111	0.1039	2.4500e-003	4.3382
Strip Mall	1.24442 / 0.544791	0.3948	0.0406	9.6000e-004	1.6939
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.7827</b>	<b>1.0048</b>	<b>0.0237</b>	<b>41.9721</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Los Angeles-South Coast County, Annual

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>



IBEC Operations - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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Additional Generator Run - Los Angeles-South Coast County, Annual

**Additional Generator Run  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	476.2	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Run only includes emissions with additional emergency generators.

Land Use - Operational emissions only for additional emergency generators.

Construction Phase - Operational emissions only for additional emergency generators.

Off-road Equipment - Operational emissions only for additional emergency generators.

Off-road Equipment - Operational emissions only for additional emergency generators.

Trips and VMT - Operational emissions only for additional emergency generators.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes additional generators totaling 750 kW from one 100 kW, one 400 kW, and one 250kW emergency generators for the West parking garage, hotel, and plaza buildings, respectively. Assumes 50 hours per year for maintenance and testing.

## Additional Generator Run - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,207.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

## 2.0 Emissions Summary

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Additional Generator Run - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Additional Generator Run - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/30/2018	10/29/2018	5	0	
2	Architectural Coating	Architectural Coating	10/30/2018	10/29/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Additional Generator Run - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Additional Generator Run - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





Additional Generator Run - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Additional Generator Run - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



Additional Generator Run - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Additional Generator Run - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Additional Generator Run - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Additional Generator Run - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	1207	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>		<b>7.2800e-003</b>	<b>7.2800e-003</b>		<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

**11.0 Vegetation**

**Baseline Emissions**  
**CalEEMod Run Outputs**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**Existing On-Site Buildings Operations Base Case**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	28.81	1000sqft	1.03	28,809.00	0
Fast Food Restaurant with Drive Thru	1.12	1000sqft	0.33	1,118.00	0
Motel	38.00	Room	0.66	16,806.00	0
Strip Mall	1.13	1000sqft	0.19	1,134.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	524.7	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only from on-site buildings proposed to be demolished. SCE 2018 CO2e intensity factor per RPS goals.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.



## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	23,934.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	71,801.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblLandUse	LandUseSquareFeet	28,810.00	28,809.00
tblLandUse	LandUseSquareFeet	1,120.00	1,118.00
tblLandUse	LandUseSquareFeet	74,487.60	16,806.00
tblLandUse	LandUseSquareFeet	1,130.00	1,134.00
tblLandUse	LotAcreage	0.66	1.03
tblLandUse	LotAcreage	0.03	0.33
tblLandUse	LotAcreage	1.71	0.66
tblLandUse	LotAcreage	0.03	0.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	524.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	Worker TripNumber	4.00	0.00

## 2.0 Emissions Summary

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Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	205.3312	205.3312	1.5800e-003	1.5100e-003	205.8207
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	25.4229	27.9767	0.2623	6.1900e-003	36.3801
<b>Total</b>	<b>0.5528</b>	<b>1.5939</b>	<b>3.9722</b>	<b>0.0105</b>	<b>0.7206</b>	<b>0.0182</b>	<b>0.7388</b>	<b>0.1932</b>	<b>0.0174</b>	<b>0.2107</b>	<b>16.8871</b>	<b>1,154.0410</b>	<b>1,170.9280</b>	<b>1.1726</b>	<b>7.7000e-003</b>	<b>1,202.5377</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	205.3312	205.3312	1.5800e-003	1.5100e-003	205.8207
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	25.4229	27.9767	0.2623	6.1900e-003	36.3801
<b>Total</b>	<b>0.5528</b>	<b>1.5939</b>	<b>3.9722</b>	<b>0.0105</b>	<b>0.7206</b>	<b>0.0182</b>	<b>0.7388</b>	<b>0.1932</b>	<b>0.0174</b>	<b>0.2107</b>	<b>16.8871</b>	<b>1,154.0410</b>	<b>1,170.9280</b>	<b>1.1726</b>	<b>7.7000e-003</b>	<b>1,202.5377</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/8/2018	10/7/2018	5	0	
2	Architectural Coating	Architectural Coating	10/11/2018	10/10/2018	5	0	

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Unmitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	555.65	808.67	607.85	630,650	630,650
General Light Industry	200.81	38.03	19.59	671,611	671,611
Motel	213.94	213.94	213.94	508,773	508,773
Strip Mall	50.08	47.51	23.09	87,247	87,247
Total	1,020.48	1,108.15	864.46	1,898,281	1,898,281

4.3 Trip Type Information

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Motel	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Strip Mall	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	122.9488	122.9488	0.0000	0.0000	122.9488
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	122.9488	122.9488	0.0000	0.0000	122.9488
Natural Gas Mitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719
Natural Gas Unmitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
<b>Total</b>		<b>8.3100e-003</b>	<b>0.0757</b>	<b>0.0636</b>	<b>4.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>82.3824</b>	<b>82.3824</b>	<b>1.5700e-003</b>	<b>1.5100e-003</b>	<b>82.8719</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
<b>Total</b>		<b>8.3100e-003</b>	<b>0.0757</b>	<b>0.0636</b>	<b>4.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>82.3824</b>	<b>82.3824</b>	<b>1.5700e-003</b>	<b>1.5100e-003</b>	<b>82.8719</b>

## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	10.7977	0.0000	0.0000	10.7977
General Light Industry	278007	66.1656	0.0000	0.0000	66.1656
Motel	177976	42.3582	0.0000	0.0000	42.3582
Strip Mall	15241	3.6274	0.0000	0.0000	3.6274
<b>Total</b>		<b>122.9488</b>	<b>0.0000</b>	<b>0.0000</b>	<b>122.9488</b>

## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	10.7977	0.0000	0.0000	10.7977
General Light Industry	278007	66.1656	0.0000	0.0000	66.1656
Motel	177976	42.3582	0.0000	0.0000	42.3582
Strip Mall	15241	3.6274	0.0000	0.0000	3.6274
<b>Total</b>		<b>122.9488</b>	<b>0.0000</b>	<b>0.0000</b>	<b>122.9488</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Unmitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Total	0.1953	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003



Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.1953</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.9767	0.2623	6.1900e-003	36.3801
Unmitigated	27.9767	0.2623	6.1900e-003	36.3801

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2188	0.0111	2.6000e-004	1.5736
General Light Industry	6.66231 / 0	22.7601	0.2171	5.1300e-003	29.7150
Motel	0.963937 / 0.107104	3.5763	0.0314	7.4000e-004	4.5825
Strip Mall	0.0837019 / 0.0513012	0.4216	2.7300e-003	6.0000e-005	0.5090
<b>Total</b>		<b>27.9767</b>	<b>0.2623</b>	<b>6.1900e-003</b>	<b>36.3801</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2188	0.0111	2.6000e-004	1.5736
General Light Industry	6.66231 / 0	22.7601	0.2171	5.1300e-003	29.7150
Motel	0.963937 / 0.107104	3.5763	0.0314	7.4000e-004	4.5825
Strip Mall	0.0837019 / 0.0513012	0.4216	2.7300e-003	6.0000e-005	0.5090
<b>Total</b>		<b>27.9767</b>	<b>0.2623</b>	<b>6.1900e-003</b>	<b>36.3801</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.3332	0.8471	0.0000	35.5099
Unmitigated	14.3332	0.8471	0.0000	35.5099

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
<b>Total</b>		<b>14.3332</b>	<b>0.8471</b>	<b>0.0000</b>	<b>35.5099</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
<b>Total</b>		<b>14.3332</b>	<b>0.8471</b>	<b>0.0000</b>	<b>35.5099</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Equipment Type	Number
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## 11.0 Vegetation

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**Existing Onsite Buildings Operations Alternate Case Parcels**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	3.00	Dwelling Unit	0.10	1,629.00	9
Single Family Housing	1.00	Dwelling Unit	0.10	795.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	524.7	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only for additional parcels to be demolished under alternate case. SCE 2018 CO2e intensity factor per RPS goals.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Grading - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.



## Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,636.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	4,909.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	3/27/2019	3/20/2019
tblConstructionPhase	PhaseEndDate	10/22/2018	10/19/2018
tblEnergyUse	T24E	197.46	197.46
tblEnergyUse	T24E	505.85	505.85
tblEnergyUse	T24NG	9,159.53	9,159.53
tblEnergyUse	T24NG	25,627.22	25,627.22
tblLandUse	LandUseSquareFeet	3,000.00	1,629.00
tblLandUse	LandUseSquareFeet	1,800.00	795.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	0.32	0.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	524.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	Worker TripNumber	1.00	0.00

## 2.0 Emissions Summary

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	7.8579	7.8579	7.0000e-005	6.0000e-005	7.8789
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2421	1.3248	8.4900e-003	2.0000e-004	1.5968
<b>Total</b>	<b>0.0372</b>	<b>0.0681</b>	<b>0.2484</b>	<b>6.0000e-004</b>	<b>0.0379</b>	<b>4.9200e-003</b>	<b>0.0429</b>	<b>0.0102</b>	<b>4.8800e-003</b>	<b>0.0151</b>	<b>1.0374</b>	<b>56.7528</b>	<b>57.7901</b>	<b>0.0441</b>	<b>2.9000e-004</b>	<b>58.9803</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	7.8579	7.8579	7.0000e-005	6.0000e-005	7.8789
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2421	1.3248	8.4900e-003	2.0000e-004	1.5968
<b>Total</b>	<b>0.0372</b>	<b>0.0681</b>	<b>0.2484</b>	<b>6.0000e-004</b>	<b>0.0379</b>	<b>4.9200e-003</b>	<b>0.0429</b>	<b>0.0102</b>	<b>4.8800e-003</b>	<b>0.0151</b>	<b>1.0374</b>	<b>56.7528</b>	<b>57.7901</b>	<b>0.0441</b>	<b>2.9000e-004</b>	<b>58.9803</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/20/2018	10/19/2018	5	0	
2	Architectural Coating	Architectural Coating	3/21/2019	3/20/2019	5	0	

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Unmitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	19.77	21.48	18.21	67,630	67,630
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	29.29	31.39	26.83	99,913	99,913

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Single Family Housing	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.3135	4.3135	0.0000	0.0000	4.3135
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.3135	4.3135	0.0000	0.0000	4.3135
NaturalGas Mitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654
NaturalGas Unmitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
<b>Total</b>		<b>3.6000e-004</b>	<b>3.0600e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.5444</b>	<b>3.5444</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>3.5654</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
<b>Total</b>		<b>3.6000e-004</b>	<b>3.0600e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.5444</b>	<b>3.5444</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>3.5654</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.5988	0.0000	0.0000	2.5988
Single Family Housing	7204.5	1.7147	0.0000	0.0000	1.7147
<b>Total</b>		<b>4.3135</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3135</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.5988	0.0000	0.0000	2.5988
Single Family Housing	7204.5	1.7147	0.0000	0.0000	1.7147
<b>Total</b>		<b>4.3135</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3135</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Unmitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
<b>Total</b>	<b>0.0239</b>	<b>1.5200e-003</b>	<b>0.0670</b>	<b>6.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.4249</b>	<b>0.8839</b>	<b>1.3087</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3507</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
<b>Total</b>	<b>0.0239</b>	<b>1.5200e-003</b>	<b>0.0670</b>	<b>6.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.4249</b>	<b>0.8839</b>	<b>1.3087</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3507</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.3248	8.4900e-003	2.0000e-004	1.5968
Unmitigated	1.3248	8.4900e-003	2.0000e-004	1.5968

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	0.9936	6.3700e-003	1.5000e-004	1.1976
Single Family Housing	0.065154 / 0.0410754	0.3312	2.1200e-003	5.0000e-005	0.3992
<b>Total</b>		<b>1.3248</b>	<b>8.4900e-003</b>	<b>2.0000e-004</b>	<b>1.5968</b>



Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	0.9936	6.3700e-003	1.5000e-004	1.1976
Single Family Housing	0.065154 / 0.0410754	0.3312	2.1200e-003	5.0000e-005	0.3992
<b>Total</b>		<b>1.3248</b>	<b>8.4900e-003</b>	<b>2.0000e-004</b>	<b>1.5968</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.5298	0.0313	0.0000	1.3126
Unmitigated	0.5298	0.0313	0.0000	1.3126

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.5298</b>	<b>0.0313</b>	<b>0.0000</b>	<b>1.3126</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.5298</b>	<b>0.0313</b>	<b>0.0000</b>	<b>1.3126</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

**LA Clippers Existing Operations**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0
Health Club	42.69	1000sqft	0.98	42,691.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	837.96	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

Project Characteristics - Accounts for existing practice facility and team offices. LADWP specific 2016 CO2e intensity rate per RPS goals.

Land Use - Based on existing building sf.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy usage data used for team offices. Practice facility energy usage rates scaled based on annual electricity usage per LADWP energy bills.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	31,276.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	93,827.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblEnergyUse	LightingElect	3.85	6.50
tblEnergyUse	NT24E	5.75	9.71
tblEnergyUse	NT24NG	4.45	3.21
tblEnergyUse	T24E	2.94	4.96
tblEnergyUse	T24NG	15.35	11.07
tblLandUse	LandUseSquareFeet	42,690.00	42,691.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	837.96
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00

## 2.0 Emissions Summary

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LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Energy	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	504.2835	504.2835	8.8000e-004	8.4000e-004	504.5551
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	53.1430	0.0000	53.1430	3.1407	0.0000	131.6596
Water						0.0000	0.0000		0.0000	0.0000	1.9209	45.6358	47.5567	0.1973	4.6600e-003	53.8771
<b>Total</b>	<b>0.2597</b>	<b>0.0420</b>	<b>0.0361</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>55.0639</b>	<b>549.9208</b>	<b>604.9847</b>	<b>3.3388</b>	<b>5.5000e-003</b>	<b>690.0935</b>



LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Energy	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	504.2835	504.2835	8.8000e-004	8.4000e-004	504.5551
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	53.1430	0.0000	53.1430	3.1407	0.0000	131.6596
Water						0.0000	0.0000		0.0000	0.0000	1.9209	45.6358	47.5567	0.1973	4.6600e-003	53.8771
<b>Total</b>	<b>0.2597</b>	<b>0.0420</b>	<b>0.0361</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>55.0639</b>	<b>549.9208</b>	<b>604.9847</b>	<b>3.3388</b>	<b>5.5000e-003</b>	<b>690.0935</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/2/2018	11/1/2018	5	0	
2	Architectural Coating	Architectural Coating	8/31/2019	8/30/2019	5	0	

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9

4.4 Fleet Mix

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Health Club	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	458.5689	458.5689	0.0000	0.0000	458.5689
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	458.5689	458.5689	0.0000	0.0000	458.5689
NaturalGas Mitigated	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.7146	45.7146	8.8000e-004	8.4000e-004	45.9862
NaturalGas Unmitigated	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.7146	45.7146	8.8000e-004	8.4000e-004	45.9862



LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Health Club	609600	3.2900e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5306	32.5306	6.2000e-004	6.0000e-004	32.7239
<b>Total</b>		<b>4.6200e-003</b>	<b>0.0420</b>	<b>0.0353</b>	<b>2.5000e-004</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>45.7146</b>	<b>45.7146</b>	<b>8.7000e-004</b>	<b>8.4000e-004</b>	<b>45.9862</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Health Club	609600	3.2900e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5306	32.5306	6.2000e-004	6.0000e-004	32.7239
<b>Total</b>		<b>4.6200e-003</b>	<b>0.0420</b>	<b>0.0353</b>	<b>2.5000e-004</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>45.7146</b>	<b>45.7146</b>	<b>8.7000e-004</b>	<b>8.4000e-004</b>	<b>45.9862</b>

## LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
Health Club	903801	343.5277	0.0000	0.0000	343.5277
<b>Total</b>		<b>458.5689</b>	<b>0.0000</b>	<b>0.0000</b>	<b>458.5689</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
Health Club	903801	343.5277	0.0000	0.0000	343.5277
<b>Total</b>		<b>458.5689</b>	<b>0.0000</b>	<b>0.0000</b>	<b>458.5689</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Unmitigated	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
<b>Total</b>	<b>0.2551</b>	<b>1.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5500e-003</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6600e-003</b>

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
<b>Total</b>	<b>0.2551</b>	<b>1.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5500e-003</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6600e-003</b>

7.0 Water Detail

7.1 Mitigation Measures Water

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	47.5567	0.1973	4.6600e-003	53.8771
Unmitigated	47.5567	0.1973	4.6600e-003	53.8771

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
Health Club	2.52482 / 1.54747	19.8315	0.0823	1.9400e-003	22.4672
<b>Total</b>		<b>47.5567</b>	<b>0.1973</b>	<b>4.6600e-003</b>	<b>53.8771</b>

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
Health Club	2.52482 / 1.54747	19.8315	0.0823	1.9400e-003	22.4672
<b>Total</b>		<b>47.5567</b>	<b>0.1973</b>	<b>4.6600e-003</b>	<b>53.8771</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	53.1430	3.1407	0.0000	131.6596
Unmitigated	53.1430	3.1407	0.0000	131.6596

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
Health Club	243.33	49.3938	2.9191	0.0000	122.3710
<b>Total</b>		<b>53.1430</b>	<b>3.1407</b>	<b>0.0000</b>	<b>131.6596</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
Health Club	243.33	49.3938	2.9191	0.0000	122.3710
<b>Total</b>		<b>53.1430</b>	<b>3.1407</b>	<b>0.0000</b>	<b>131.6596</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**Backfilled LA Clippers Organization Office**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	837.96	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Accounts for backfilling with general office use. LADWP adjusted CO2e intensity per RPS mandates.

Land Use - Based on existing square footage.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Grading - Operations only run.

Trips and VMT - Operations only run.

Architectural Coating - Operations only run.

Energy Use - Historical energy usage data

## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	6/20/2018	6/13/2018
tblConstructionPhase	PhaseEndDate	1/15/2018	1/12/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	837.96
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	128.2251	128.2251	2.5000e-004	2.4000e-004	128.3035
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	26.6053	27.7252	0.1150	2.7200e-003	31.4100
<b>Total</b>	<b>0.1260</b>	<b>0.2154</b>	<b>0.6029</b>	<b>2.4000e-003</b>	<b>0.2035</b>	<b>2.7000e-003</b>	<b>0.2062</b>	<b>0.0545</b>	<b>2.5700e-003</b>	<b>0.0571</b>	<b>4.8691</b>	<b>370.4645</b>	<b>375.3336</b>	<b>0.3471</b>	<b>2.9600e-003</b>	<b>384.8934</b>

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	128.2251	128.2251	2.5000e-004	2.4000e-004	128.3035
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	26.6053	27.7252	0.1150	2.7200e-003	31.4100
<b>Total</b>	<b>0.1260</b>	<b>0.2154</b>	<b>0.6029</b>	<b>2.4000e-003</b>	<b>0.2035</b>	<b>2.7000e-003</b>	<b>0.2062</b>	<b>0.0545</b>	<b>2.5700e-003</b>	<b>0.0571</b>	<b>4.8691</b>	<b>370.4645</b>	<b>375.3336</b>	<b>0.3471</b>	<b>2.9600e-003</b>	<b>384.8934</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/13/2018	1/12/2018	5	0	
2	Architectural Coating	Architectural Coating	6/14/2018	6/13/2018	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Unmitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	219.06	48.86	20.85	536,137	536,137
Total	219.06	48.86	20.85	536,137	536,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.0412	115.0412	0.0000	0.0000	115.0412
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.0412	115.0412	0.0000	0.0000	115.0412
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
<b>Total</b>		<b>115.0412</b>	<b>0.0000</b>	<b>0.0000</b>	<b>115.0412</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
<b>Total</b>		<b>115.0412</b>	<b>0.0000</b>	<b>0.0000</b>	<b>115.0412</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

7.0 Water Detail

7.1 Mitigation Measures Water



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.7252	0.1150	2.7200e-003	31.4100
Unmitigated	27.7252	0.1150	2.7200e-003	31.4100

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
<b>Total</b>		<b>27.7252</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>31.4100</b>

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**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
<b>Total</b>		<b>27.7252</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>31.4100</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	837.96	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Existing operational run to estimate existing emissions from NBA related events and market shifted events.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblConstructionPhase	PhaseEndDate	9/29/2042	6/24/2041
tblConstructionPhase	PhaseEndDate	8/10/2020	12/2/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	837.96
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	5,345.4776	5,345.4776	0.0186	0.0178	5,351.2416
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	2,063.7283	2,189.1854	12.8856	0.3043	2,601.9954
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7603</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>7,409.2287</b>	<b>7,775.0718</b>	<b>27.1107</b>	<b>0.3220</b>	<b>8,548.8074</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	5,345.4776	5,345.4776	0.0186	0.0178	5,351.2416
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	2,063.7283	2,189.1854	12.8856	0.3043	2,601.9954
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7603</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>7,409.2287</b>	<b>7,775.0718</b>	<b>27.1107</b>	<b>0.3220</b>	<b>8,548.8074</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944



Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,375.5157	4,375.5157	0.0000	0.0000	4,375.5157
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,375.5157	4,375.5157	0.0000	0.0000	4,375.5157
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	4,375.5157	0.0000	0.0000	4,375.5157
<b>Total</b>		<b>4,375.5157</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,375.5157</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	4,375.5157	0.0000	0.0000	4,375.5157
<b>Total</b>		<b>4,375.5157</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,375.5157</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Unmitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0244</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0244</b>

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,189.185 4	12.8856	0.3043	2,601.995 4
Unmitigated	2,189.185 4	12.8856	0.3043	2,601.995 4

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	2,189.185 4	12.8856	0.3043	2,601.995 4
<b>Total</b>		<b>2,189.185 4</b>	<b>12.8856</b>	<b>0.3043</b>	<b>2,601.995 4</b>

Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	2,189.185 4	12.8856	0.3043	2,601.995 4
<b>Total</b>		<b>2,189.185 4</b>	<b>12.8856</b>	<b>0.3043</b>	<b>2,601.995 4</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Staples Center - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**The Forum Existing Emissions**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	346.00	1000sqft	111.21	346,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	524.7	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Project Characteristics - Existing emissions at The Forum. SCE CO2e intensity rate adjusted to 2018 per RPS mandates.

Land Use - Based on actual square footage.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Renovated in 2014. CalEEMod defaults for energy usage.

Solid Waste - Based on 1.29 tons/1000 sq ft.

## The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	173,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	519,000.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblConstructionPhase	PhaseEndDate	12/23/2033	2/18/2033
tblConstructionPhase	PhaseEndDate	3/22/2019	10/5/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	524.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	9.52	446.34
tblTripsAndVMT	WorkerTripNumber	29.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,081.7354	1,081.7354	7.4000e-003	7.0700e-003	1,084.0286
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	487.0502	534.3358	4.8567	0.1147	689.9265
<b>Total</b>	<b>1.4501</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>1,568.7942</b>	<b>1,706.6827</b>	<b>10.2186</b>	<b>0.1218</b>	<b>1,998.4293</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,081.7354	1,081.7354	7.4000e-003	7.0700e-003	1,084.0286
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	487.0502	534.3358	4.8567	0.1147	689.9265
<b>Total</b>	<b>1.4501</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>1,568.7942</b>	<b>1,706.6827</b>	<b>10.2186</b>	<b>0.1218</b>	<b>1,998.4293</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/6/2018	10/5/2018	5	0	
2	Architectural Coating	Architectural Coating	2/19/2033	2/18/2033	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









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**3.3 Architectural Coating - 2033**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	695.8404	695.8404	0.0000	0.0000	695.8404
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	695.8404	695.8404	0.0000	0.0000	695.8404
NaturalGas Mitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
NaturalGas Unmitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	695.8404	0.0000	0.0000	695.8404
<b>Total</b>		<b>695.8404</b>	<b>0.0000</b>	<b>0.0000</b>	<b>695.8404</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	695.8404	0.0000	0.0000	695.8404
<b>Total</b>		<b>695.8404</b>	<b>0.0000</b>	<b>0.0000</b>	<b>695.8404</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



The Forum Existing Emissions - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Unmitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
<b>Total</b>	<b>1.4111</b>	<b>4.0000e-005</b>	<b>4.4800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1800e-003</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
<b>Total</b>	<b>1.4111</b>	<b>4.0000e-005</b>	<b>4.4800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1800e-003</b>

7.0 Water Detail

7.1 Mitigation Measures Water

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	534.3358	4.8567	0.1147	689.9265
Unmitigated	534.3358	4.8567	0.1147	689.9265

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	534.3358	4.8567	0.1147	689.9265
<b>Total</b>		<b>534.3358</b>	<b>4.8567</b>	<b>0.1147</b>	<b>689.9265</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	534.3358	4.8567	0.1147	689.9265
<b>Total</b>		<b>534.3358</b>	<b>4.8567</b>	<b>0.1147</b>	<b>689.9265</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6030	5.3545	0.0000	224.4651
Unmitigated	90.6030	5.3545	0.0000	224.4651

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Honda Center - Orange County, Annual

**Honda Center**  
**Orange County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	650.00	1000sqft	208.93	650,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MW hr)</b>	1203.54	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Honda Center - Orange County, Annual

Project Characteristics - Honda Center operational emissions. CO2e rate updated based on CURB model, based on 2017 APU power content label.

Land Use - Based Honda Center square footage

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emissions only.

Architectural Coating - Operational emissions only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Based on actual energy consumption provided in Honda Center Enhancement Project EIR

Solid Waste - Solid waste generation based on 1.29 ton/1000 sq ft.



## Honda Center - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	325,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	975,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.99	10.43
tblEnergyUse	NT24E	3.83	13.35
tblEnergyUse	NT24NG	6.86	6.57
tblEnergyUse	T24E	1.63	5.68
tblEnergyUse	T24NG	14.04	13.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1203.54
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	17.89	838.50
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Honda Center - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	11,149.9138	11,149.9138	0.0133	0.0128	11,154.0507
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	2,098.7487	2,187.5800	9.1238	0.2154	2,479.8747
<b>Total</b>	<b>2.7212</b>	<b>0.6396</b>	<b>0.5456</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>13,248.6786</b>	<b>13,507.7178</b>	<b>19.1962</b>	<b>0.2282</b>	<b>14,055.6255</b>

Honda Center - Orange County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	11,149.9138	11,149.9138	0.0133	0.0128	11,154.0507
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	2,098.7487	2,187.5800	9.1238	0.2154	2,479.8747
<b>Total</b>	<b>2.7212</b>	<b>0.6396</b>	<b>0.5456</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>13,248.6786</b>	<b>13,507.7178</b>	<b>19.1962</b>	<b>0.2282</b>	<b>14,055.6255</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/23/2019	2/22/2019	5	0	
2	Architectural Coating	Architectural Coating	9/15/2040	9/14/2040	5	0	

Honda Center - Orange County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Honda Center - Orange County, Annual

**3.3 Architectural Coating - 2040**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Honda Center - Orange County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

Honda Center - Orange County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10,453.7562	10,453.7562	0.0000	0.0000	10,453.7562
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10,453.7562	10,453.7562	0.0000	0.0000	10,453.7562
NaturalGas Mitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
NaturalGas Unmitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945

Honda Center - Orange County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

Honda Center - Orange County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	10,453.7562	0.0000	0.0000	10,453.7562
<b>Total</b>		<b>10,453.7562</b>	<b>0.0000</b>	<b>0.0000</b>	<b>10,453.7562</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	10,453.7562	0.0000	0.0000	10,453.7562
<b>Total</b>		<b>10,453.7562</b>	<b>0.0000</b>	<b>0.0000</b>	<b>10,453.7562</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Honda Center - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Unmitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6509</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>

Honda Center - Orange County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6509</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Honda Center - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,187.580 0	9.1238	0.2154	2,479.874 7
Unmitigated	2,187.580 0	9.1238	0.2154	2,479.874 7

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,187.580 0	9.1238	0.2154	2,479.874 7
<b>Total</b>		<b>2,187.580 0</b>	<b>9.1238</b>	<b>0.2154</b>	<b>2,479.874 7</b>



Honda Center - Orange County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,187.580 0	9.1238	0.2154	2,479.874 7
<b>Total</b>		<b>2,187.580 0</b>	<b>9.1238</b>	<b>0.2154</b>	<b>2,479.874 7</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.2079	10.0590	0.0000	421.6829
Unmitigated	170.2079	10.0590	0.0000	421.6829

Honda Center - Orange County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Honda Center - Orange County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**Construction**  
**CalEEMod Run Outputs**

IBEC Construction - Run 1 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**IBEC Construction - Run 1 (Tier 4 Final Equipment)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Construction Analysis for Operational Year 2024

Land Use - Land uses provided by the applicant.

Construction Phase - Construction phases and schedule provided by applicant.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Added project-specific construction equipment for the Building Construction phase.

Off-road Equipment - Added project-specific construction equipment for the Demolition phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Added project-specific construction equipment for the Excavation/Grading - Excavation/Retention System phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Trips and VMT - Project-specific construction trips.

Demolition - 5,175 tons of Demolition debris

Grading - 332,700 cubic yards of material exported during Excavation/Grading activities.

Vehicle Trips - Operational trip rates set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Area Coating - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Energy Use - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment required to meet Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	10.00	208.00
tblConstructionPhase	NumDays	30.00	172.00
tblConstructionPhase	NumDays	300.00	501.00
tblConstructionPhase	NumDays	20.00	459.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00

tblEnergyUse	LightingElect	3.03	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	3.24	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	2.77	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	29.10	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00





tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	512.00	4,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	HaulingTripNumber	41,588.00	51,072.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,224.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblTripsAndVMT	WorkerTripNumber	565.00	800.00
tblTripsAndVMT	WorkerTripNumber	113.00	1,200.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
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tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
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tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00



Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	5.7410	0.9445
2	10-1-2021	12-31-2021	7.7177	2.3464
3	1-1-2022	3-31-2022	9.4088	3.8419
4	4-1-2022	6-30-2022	8.7457	3.5726
5	7-1-2022	9-30-2022	4.6275	1.5122
6	10-1-2022	12-31-2022	5.0501	1.9013
7	1-1-2023	3-31-2023	5.5448	2.6606
8	4-1-2023	6-30-2023	5.5529	2.6366
9	7-1-2023	9-30-2023	5.6139	2.6656
10	10-1-2023	12-31-2023	2.2740	1.6597
11	1-1-2024	3-31-2024	1.5128	1.3999
12	4-1-2024	6-30-2024	0.9280	0.8572
		Highest	9.4088	3.8419

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/31/2021	6	53	
2	Site Preparation - Initial Site Development	Site Preparation	7/1/2021	2/28/2022	6	208	
3	Excavation/Grading - Excavation/Retention System	Grading	11/8/2021	5/26/2022	6	172	
4	Building Construction	Building Construction	3/11/2022	10/16/2023	6	501	
5	Architectural Coating	Architectural Coating	12/9/2022	5/27/2024	6	459	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,065,200; Non-Residential Outdoor: 688,400; Striped Parking**

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	14.00	81	0.73
Demolition	Crawler Tractors	1	14.00	275	0.43
Demolition	Excavators	3	14.00	158	0.38
Demolition	Excavators	1	14.00	200	0.38
Demolition	Rubber Tired Dozers	2	14.00	247	0.40
Site Preparation - Initial Site Development	Rubber Tired Dozers	3	14.00	247	0.40
Site Preparation - Initial Site Development	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Excavation/Grading - Excavation/Retention System	Bore/Drill Rigs	1	14.00	221	0.50
Excavation/Grading - Excavation/Retention System	Excavators	2	14.00	158	0.38
Excavation/Grading - Excavation/Retention System	Excavators	1	14.00	200	0.38
Excavation/Grading - Excavation/Retention System	Graders	1	14.00	187	0.41
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	247	0.40
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	215	0.40
Excavation/Grading - Excavation/Retention System	Scrapers	2	14.00	367	0.48
Excavation/Grading - Excavation/Retention System	Skid Steer Loaders	1	14.00	230	0.37
Excavation/Grading - Excavation/Retention System	Tractors/Loaders/Backhoes	2	14.00	97	0.37
Building Construction	Cranes	8	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Welders	1	14.00	46	0.45
Architectural Coating	Air Compressors	1	14.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	40.00	2.00	4,200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Initial Site	7	40.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation/Grading - Excavation/Retention	12	30.00	2.00	51,072.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	800.00	226.00	4,224.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,200.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	8.3800e-003	0.0000	8.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1843	1.8810	1.2645	2.5800e-003		0.0877	0.0877		0.0813	0.0813	0.0000	225.9160	225.9160	0.0665	0.0000	227.5772
<b>Total</b>	<b>0.1843</b>	<b>1.8810</b>	<b>1.2645</b>	<b>2.5800e-003</b>	<b>0.0554</b>	<b>0.0877</b>	<b>0.1430</b>	<b>8.3800e-003</b>	<b>0.0813</b>	<b>0.0897</b>	<b>0.0000</b>	<b>225.9160</b>	<b>225.9160</b>	<b>0.0665</b>	<b>0.0000</b>	<b>227.5772</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
<b>Total</b>	<b>0.0224</b>	<b>0.5901</b>	<b>0.1771</b>	<b>1.7600e-003</b>	<b>0.0480</b>	<b>1.8500e-003</b>	<b>0.0499</b>	<b>0.0131</b>	<b>1.7600e-003</b>	<b>0.0149</b>	<b>0.0000</b>	<b>171.8712</b>	<b>171.8712</b>	<b>0.0115</b>	<b>0.0000</b>	<b>172.1587</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.1342	1.4291	2.5800e-003		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	225.9157	225.9157	0.0665	0.0000	227.5769
<b>Total</b>	<b>0.0310</b>	<b>0.1342</b>	<b>1.4291</b>	<b>2.5800e-003</b>	<b>0.0216</b>	<b>4.1300e-003</b>	<b>0.0257</b>	<b>3.2700e-003</b>	<b>4.1300e-003</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>225.9157</b>	<b>225.9157</b>	<b>0.0665</b>	<b>0.0000</b>	<b>227.5769</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
<b>Total</b>	<b>0.0224</b>	<b>0.5901</b>	<b>0.1771</b>	<b>1.7600e-003</b>	<b>0.0480</b>	<b>1.8500e-003</b>	<b>0.0499</b>	<b>0.0131</b>	<b>1.7600e-003</b>	<b>0.0149</b>	<b>0.0000</b>	<b>171.8712</b>	<b>171.8712</b>	<b>0.0115</b>	<b>0.0000</b>	<b>172.1587</b>



### 3.3 Site Preparation - Initial Site Development - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4977	0.0000	2.4977	1.3729	0.0000	1.3729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5375	5.5987	2.9246	5.2600e-003		0.2827	0.2827		0.2600	0.2600	0.0000	462.2488	462.2488	0.1495	0.0000	465.9863
<b>Total</b>	<b>0.5375</b>	<b>5.5987</b>	<b>2.9246</b>	<b>5.2600e-003</b>	<b>2.4977</b>	<b>0.2827</b>	<b>2.7803</b>	<b>1.3729</b>	<b>0.2600</b>	<b>1.6330</b>	<b>0.0000</b>	<b>462.2488</b>	<b>462.2488</b>	<b>0.1495</b>	<b>0.0000</b>	<b>465.9863</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
<b>Total</b>	<b>0.0137</b>	<b>0.0122</b>	<b>0.1199</b>	<b>3.5000e-004</b>	<b>0.0348</b>	<b>2.9000e-004</b>	<b>0.0350</b>	<b>9.2300e-003</b>	<b>2.6000e-004</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>31.6841</b>	<b>31.6841</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.7078</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9741	0.0000	0.9741	0.5354	0.0000	0.5354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0644	0.2789	2.8851	5.2600e-003		8.5800e-003	8.5800e-003		8.5800e-003	8.5800e-003	0.0000	462.2482	462.2482	0.1495	0.0000	465.9858
<b>Total</b>	<b>0.0644</b>	<b>0.2789</b>	<b>2.8851</b>	<b>5.2600e-003</b>	<b>0.9741</b>	<b>8.5800e-003</b>	<b>0.9827</b>	<b>0.5354</b>	<b>8.5800e-003</b>	<b>0.5440</b>	<b>0.0000</b>	<b>462.2482</b>	<b>462.2482</b>	<b>0.1495</b>	<b>0.0000</b>	<b>465.9858</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
<b>Total</b>	<b>0.0137</b>	<b>0.0122</b>	<b>0.1199</b>	<b>3.5000e-004</b>	<b>0.0348</b>	<b>2.9000e-004</b>	<b>0.0350</b>	<b>9.2300e-003</b>	<b>2.6000e-004</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>31.6841</b>	<b>31.6841</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.7078</b>

### 3.3 Site Preparation - Initial Site Development - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7904	0.0000	0.7904	0.4345	0.0000	0.4345	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1387	1.4474	0.8618	1.6600e-003		0.0706	0.0706		0.0649	0.0649	0.0000	146.2973	146.2973	0.0473	0.0000	147.4802
<b>Total</b>	<b>0.1387</b>	<b>1.4474</b>	<b>0.8618</b>	<b>1.6600e-003</b>	<b>0.7904</b>	<b>0.0706</b>	<b>0.8610</b>	<b>0.4345</b>	<b>0.0649</b>	<b>0.4994</b>	<b>0.0000</b>	<b>146.2973</b>	<b>146.2973</b>	<b>0.0473</b>	<b>0.0000</b>	<b>147.4802</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
<b>Total</b>	<b>4.0400e-003</b>	<b>3.4900e-003</b>	<b>0.0350</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.6774</b>	<b>9.6774</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.6842</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3083	0.0000	0.3083	0.1694	0.0000	0.1694	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.0883	0.9130	1.6600e-003		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	146.2972	146.2972	0.0473	0.0000	147.4801
<b>Total</b>	<b>0.0204</b>	<b>0.0883</b>	<b>0.9130</b>	<b>1.6600e-003</b>	<b>0.3083</b>	<b>2.7200e-003</b>	<b>0.3110</b>	<b>0.1694</b>	<b>2.7200e-003</b>	<b>0.1722</b>	<b>0.0000</b>	<b>146.2972</b>	<b>146.2972</b>	<b>0.0473</b>	<b>0.0000</b>	<b>147.4801</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
<b>Total</b>	<b>4.0400e-003</b>	<b>3.4900e-003</b>	<b>0.0350</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.6774</b>	<b>9.6774</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.6842</b>

### 3.4 Excavation/Grading - Excavation/Retention System - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6655	0.0000	0.6655	0.1821	0.0000	0.1821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2294	2.5193	1.5605	3.5100e-003		0.1074	0.1074		0.0988	0.0988	0.0000	308.5991	308.5991	0.0998	0.0000	311.0943
<b>Total</b>	<b>0.2294</b>	<b>2.5193</b>	<b>1.5605</b>	<b>3.5100e-003</b>	<b>0.6655</b>	<b>0.1074</b>	<b>0.7728</b>	<b>0.1821</b>	<b>0.0988</b>	<b>0.2808</b>	<b>0.0000</b>	<b>308.5991</b>	<b>308.5991</b>	<b>0.0998</b>	<b>0.0000</b>	<b>311.0943</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
<b>Total</b>	<b>0.0620</b>	<b>1.9387</b>	<b>0.4783</b>	<b>5.4900e-003</b>	<b>0.3678</b>	<b>5.8500e-003</b>	<b>0.3736</b>	<b>0.0939</b>	<b>5.6000e-003</b>	<b>0.0995</b>	<b>0.0000</b>	<b>540.0501</b>	<b>540.0501</b>	<b>0.0372</b>	<b>0.0000</b>	<b>540.9800</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2595	0.0000	0.2595	0.0710	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.1871	1.7919	3.5100e-003		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	308.5988	308.5988	0.0998	0.0000	311.0939
<b>Total</b>	<b>0.0432</b>	<b>0.1871</b>	<b>1.7919</b>	<b>3.5100e-003</b>	<b>0.2595</b>	<b>5.7600e-003</b>	<b>0.2653</b>	<b>0.0710</b>	<b>5.7600e-003</b>	<b>0.0768</b>	<b>0.0000</b>	<b>308.5988</b>	<b>308.5988</b>	<b>0.0998</b>	<b>0.0000</b>	<b>311.0939</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
<b>Total</b>	<b>0.0620</b>	<b>1.9387</b>	<b>0.4783</b>	<b>5.4900e-003</b>	<b>0.3678</b>	<b>5.8500e-003</b>	<b>0.3736</b>	<b>0.0939</b>	<b>5.6000e-003</b>	<b>0.0995</b>	<b>0.0000</b>	<b>540.0501</b>	<b>540.0501</b>	<b>0.0372</b>	<b>0.0000</b>	<b>540.9800</b>

### 3.4 Excavation/Grading - Excavation/Retention System - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0765	0.0000	1.0765	0.4080	0.0000	0.4080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5224	5.5368	3.9007	9.3500e-003		0.2329	0.2329		0.2143	0.2143	0.0000	821.3300	821.3300	0.2656	0.0000	827.9709
<b>Total</b>	<b>0.5224</b>	<b>5.5368</b>	<b>3.9007</b>	<b>9.3500e-003</b>	<b>1.0765</b>	<b>0.2329</b>	<b>1.3094</b>	<b>0.4080</b>	<b>0.2143</b>	<b>0.6223</b>	<b>0.0000</b>	<b>821.3300</b>	<b>821.3300</b>	<b>0.2656</b>	<b>0.0000</b>	<b>827.9709</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
<b>Total</b>	<b>0.1567</b>	<b>4.7855</b>	<b>1.2531</b>	<b>0.0144</b>	<b>0.4305</b>	<b>0.0135</b>	<b>0.4440</b>	<b>0.1154</b>	<b>0.0130</b>	<b>0.1284</b>	<b>0.0000</b>	<b>1,418.8016</b>	<b>1,418.8016</b>	<b>0.0973</b>	<b>0.0000</b>	<b>1,421.2352</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4198	0.0000	0.4198	0.1591	0.0000	0.1591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1148	0.4976	4.7657	9.3500e-003		0.0153	0.0153		0.0153	0.0153	0.0000	821.3290	821.3290	0.2656	0.0000	827.9699
<b>Total</b>	<b>0.1148</b>	<b>0.4976</b>	<b>4.7657</b>	<b>9.3500e-003</b>	<b>0.4198</b>	<b>0.0153</b>	<b>0.4351</b>	<b>0.1591</b>	<b>0.0153</b>	<b>0.1744</b>	<b>0.0000</b>	<b>821.3290</b>	<b>821.3290</b>	<b>0.2656</b>	<b>0.0000</b>	<b>827.9699</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
<b>Total</b>	<b>0.1567</b>	<b>4.7855</b>	<b>1.2531</b>	<b>0.0144</b>	<b>0.4305</b>	<b>0.0135</b>	<b>0.4440</b>	<b>0.1154</b>	<b>0.0130</b>	<b>0.1284</b>	<b>0.0000</b>	<b>1,418.8016</b>	<b>1,418.8016</b>	<b>0.0973</b>	<b>0.0000</b>	<b>1,421.2352</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9836	10.2362	6.8199	0.0154		0.4624	0.4624		0.4292	0.4292	0.0000	1,340.5762	1,340.5762	0.3904	0.0000	1,350.3359
<b>Total</b>	<b>0.9836</b>	<b>10.2362</b>	<b>6.8199</b>	<b>0.0154</b>		<b>0.4624</b>	<b>0.4624</b>		<b>0.4292</b>	<b>0.4292</b>	<b>0.0000</b>	<b>1,340.5762</b>	<b>1,340.5762</b>	<b>0.3904</b>	<b>0.0000</b>	<b>1,350.3359</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
<b>Total</b>	<b>0.5022</b>	<b>3.2737</b>	<b>4.3350</b>	<b>0.0188</b>	<b>1.3260</b>	<b>0.0147</b>	<b>1.3407</b>	<b>0.3562</b>	<b>0.0138</b>	<b>0.3700</b>	<b>0.0000</b>	<b>1,751.3542</b>	<b>1,751.3542</b>	<b>0.0742</b>	<b>0.0000</b>	<b>1,753.2082</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1883	0.9968	8.1918	0.0154		0.0245	0.0245		0.0245	0.0245	0.0000	1,340.5746	1,340.5746	0.3904	0.0000	1,350.3343
<b>Total</b>	<b>0.1883</b>	<b>0.9968</b>	<b>8.1918</b>	<b>0.0154</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0245</b>	<b>0.0245</b>	<b>0.0000</b>	<b>1,340.5746</b>	<b>1,340.5746</b>	<b>0.3904</b>	<b>0.0000</b>	<b>1,350.3343</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
<b>Total</b>	<b>0.5022</b>	<b>3.2737</b>	<b>4.3350</b>	<b>0.0188</b>	<b>1.3260</b>	<b>0.0147</b>	<b>1.3407</b>	<b>0.3562</b>	<b>0.0138</b>	<b>0.3700</b>	<b>0.0000</b>	<b>1,751.3542</b>	<b>1,751.3542</b>	<b>0.0742</b>	<b>0.0000</b>	<b>1,753.2082</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8933	9.1089	6.5164	0.0150		0.4027	0.4027		0.3737	0.3737	0.0000	1,303.8123	1,303.8123	0.3788	0.0000	1,313.2830
<b>Total</b>	<b>0.8933</b>	<b>9.1089</b>	<b>6.5164</b>	<b>0.0150</b>		<b>0.4027</b>	<b>0.4027</b>		<b>0.3737</b>	<b>0.3737</b>	<b>0.0000</b>	<b>1,303.8123</b>	<b>1,303.8123</b>	<b>0.3788</b>	<b>0.0000</b>	<b>1,313.2830</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
<b>Total</b>	<b>0.4407</b>	<b>2.4231</b>	<b>3.8598</b>	<b>0.0176</b>	<b>1.2902</b>	<b>0.0110</b>	<b>1.3012</b>	<b>0.3466</b>	<b>0.0102</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,643.9764</b>	<b>1,643.9764</b>	<b>0.0644</b>	<b>0.0000</b>	<b>1,645.5868</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1831	0.9694	7.9661	0.0150		0.0238	0.0238		0.0238	0.0238	0.0000	1,303.8108	1,303.8108	0.3788	0.0000	1,313.2815
<b>Total</b>	<b>0.1831</b>	<b>0.9694</b>	<b>7.9661</b>	<b>0.0150</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>	<b>0.0000</b>	<b>1,303.8108</b>	<b>1,303.8108</b>	<b>0.3788</b>	<b>0.0000</b>	<b>1,313.2815</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
<b>Total</b>	<b>0.4407</b>	<b>2.4231</b>	<b>3.8598</b>	<b>0.0176</b>	<b>1.2902</b>	<b>0.0110</b>	<b>1.3012</b>	<b>0.3466</b>	<b>0.0102</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,643.9764</b>	<b>1,643.9764</b>	<b>0.0644</b>	<b>0.0000</b>	<b>1,645.5868</b>



### 3.6 Architectural Coating - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7700e-003	0.0329	0.0423	7.0000e-005	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
<b>Total</b>	<b>0.2828</b>	<b>0.0329</b>	<b>0.0423</b>	<b>7.0000e-005</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>5.9576</b>	<b>5.9576</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.9673</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
<b>Total</b>	<b>0.0484</b>	<b>0.0363</b>	<b>0.4181</b>	<b>1.2700e-003</b>	<b>0.1315</b>	<b>1.0500e-003</b>	<b>0.1326</b>	<b>0.0349</b>	<b>9.7000e-004</b>	<b>0.0359</b>	<b>0.0000</b>	<b>114.4986</b>	<b>114.4986</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>114.5774</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	3.0000e-003	0.0428	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
<b>Total</b>	<b>0.2788</b>	<b>3.0000e-003</b>	<b>0.0428</b>	<b>7.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.9576</b>	<b>5.9576</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.9673</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
<b>Total</b>	<b>0.0484</b>	<b>0.0363</b>	<b>0.4181</b>	<b>1.2700e-003</b>	<b>0.1315</b>	<b>1.0500e-003</b>	<b>0.1326</b>	<b>0.0349</b>	<b>9.7000e-004</b>	<b>0.0359</b>	<b>0.0000</b>	<b>114.4986</b>	<b>114.4986</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>114.5774</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.4743	0.6593	1.0800e-003		0.0258	0.0258		0.0258	0.0258	0.0000	92.9384	92.9384	5.5600e-003	0.0000	93.0774
<b>Total</b>	<b>4.4075</b>	<b>0.4743</b>	<b>0.6593</b>	<b>1.0800e-003</b>		<b>0.0258</b>	<b>0.0258</b>		<b>0.0258</b>	<b>0.0258</b>	<b>0.0000</b>	<b>92.9384</b>	<b>92.9384</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>93.0774</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
<b>Total</b>	<b>0.7102</b>	<b>0.5124</b>	<b>5.9980</b>	<b>0.0190</b>	<b>2.0513</b>	<b>0.0159</b>	<b>2.0673</b>	<b>0.5448</b>	<b>0.0147</b>	<b>0.5595</b>	<b>0.0000</b>	<b>1,720.8163</b>	<b>1,720.8163</b>	<b>0.0443</b>	<b>0.0000</b>	<b>1,721.9238</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0469	0.6670	1.0800e-003		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	92.9383	92.9383	5.5600e-003	0.0000	93.0773
<b>Total</b>	<b>4.3486</b>	<b>0.0469</b>	<b>0.6670</b>	<b>1.0800e-003</b>		<b>1.4400e-003</b>	<b>1.4400e-003</b>		<b>1.4400e-003</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>92.9383</b>	<b>92.9383</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>93.0773</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
<b>Total</b>	<b>0.7102</b>	<b>0.5124</b>	<b>5.9980</b>	<b>0.0190</b>	<b>2.0513</b>	<b>0.0159</b>	<b>2.0673</b>	<b>0.5448</b>	<b>0.0147</b>	<b>0.5595</b>	<b>0.0000</b>	<b>1,720.8163</b>	<b>1,720.8163</b>	<b>0.0443</b>	<b>0.0000</b>	<b>1,721.9238</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.1806	0.2682	4.4000e-004		9.0300e-003	9.0300e-003		9.0300e-003	9.0300e-003	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8840
<b>Total</b>	<b>1.7925</b>	<b>0.1806</b>	<b>0.2682</b>	<b>4.4000e-004</b>		<b>9.0300e-003</b>	<b>9.0300e-003</b>		<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>37.8307</b>	<b>37.8307</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>37.8840</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
<b>Total</b>	<b>0.2738</b>	<b>0.1902</b>	<b>2.2736</b>	<b>7.5000e-003</b>	<b>0.8350</b>	<b>6.3800e-003</b>	<b>0.8414</b>	<b>0.2218</b>	<b>5.8800e-003</b>	<b>0.2277</b>	<b>0.0000</b>	<b>678.7420</b>	<b>678.7420</b>	<b>0.0165</b>	<b>0.0000</b>	<b>679.1552</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0191	0.2715	4.4000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8839
<b>Total</b>	<b>1.7701</b>	<b>0.0191</b>	<b>0.2715</b>	<b>4.4000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>37.8307</b>	<b>37.8307</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>37.8839</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
<b>Total</b>	<b>0.2738</b>	<b>0.1902</b>	<b>2.2736</b>	<b>7.5000e-003</b>	<b>0.8350</b>	<b>6.3800e-003</b>	<b>0.8414</b>	<b>0.2218</b>	<b>5.8800e-003</b>	<b>0.2277</b>	<b>0.0000</b>	<b>678.7420</b>	<b>678.7420</b>	<b>0.0165</b>	<b>0.0000</b>	<b>679.1552</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**IBEC Construction - Run 2 (Tier 4 Final Equipment)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Construction Analysis for Operational Year 2024 - Run 2

Land Use - Land uses provided by the applicant. Run 2 land uses only.

Construction Phase - Construction phases and schedule provided by applicant. Run 2: 1/23/2023 - 6/28/2024

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

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Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	230.00	354.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	T24E	3.92	0.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblOffRoadEquipment	UsageHours	6.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00

tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,424.00
tblTripsAndVMT	VendorTripNumber	247.00	21.00
tblTripsAndVMT	WorkerTripNumber	15.00	90.00





Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-23-2023	4-22-2023	1.5043	0.3002
2	4-23-2023	7-22-2023	1.5182	0.5337
3	7-23-2023	10-22-2023	1.5393	0.5439
4	10-23-2023	1-22-2024	1.5319	0.5550
5	1-23-2024	4-22-2024	1.4436	0.5354
6	4-23-2024	7-22-2024	0.6619	0.3280
		Highest	1.5393	0.5550

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/23/2023	2/4/2023	6	12	
2	Grading	Grading	2/5/2023	3/17/2023	6	35	
3	Building Construction	Building Construction	3/18/2023	5/3/2024	6	354	
4	Architectural Coating	Architectural Coating	5/4/2024	5/31/2024	6	24	
5	Paving	Paving	6/1/2024	6/28/2024	6	24	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 30.63**

**Acres of Paving: 9.28**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 90,478**

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	14.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Grading	Excavators	1	14.00	158	0.38
Grading	Graders	1	14.00	187	0.41
Grading	Rubber Tired Dozers	1	14.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Cranes	1	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Welders	1	14.00	46	0.45
Architectural Coating	Air Compressors	1	14.00	78	0.48
Paving	Pavers	2	14.00	130	0.42
Paving	Paving Equipment	2	14.00	132	0.36
Paving	Rollers	2	14.00	80	0.38

## Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	633.00	21.00	7,424.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	127.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	90.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

### 3.2 Site Preparation - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1897	0.0000	0.1897	0.1043	0.0000	0.1043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.2890	0.1916	4.0000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	35.1232	35.1232	0.0114	0.0000	35.4072
<b>Total</b>	<b>0.0279</b>	<b>0.2890</b>	<b>0.1916</b>	<b>4.0000e-004</b>	<b>0.1897</b>	<b>0.0133</b>	<b>0.2030</b>	<b>0.1043</b>	<b>0.0122</b>	<b>0.1165</b>	<b>0.0000</b>	<b>35.1232</b>	<b>35.1232</b>	<b>0.0114</b>	<b>0.0000</b>	<b>35.4072</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9928	0.9928	3.0000e-005	0.0000	0.9934
<b>Total</b>	<b>4.1000e-004</b>	<b>3.0000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9928</b>	<b>0.9928</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9934</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0740	0.0000	0.0740	0.0407	0.0000	0.0407	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8900e-003	0.0212	0.2191	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.1232	35.1232	0.0114	0.0000	35.4072
<b>Total</b>	<b>4.8900e-003</b>	<b>0.0212</b>	<b>0.2191</b>	<b>4.0000e-004</b>	<b>0.0740</b>	<b>6.5000e-004</b>	<b>0.0746</b>	<b>0.0407</b>	<b>6.5000e-004</b>	<b>0.0413</b>	<b>0.0000</b>	<b>35.1232</b>	<b>35.1232</b>	<b>0.0114</b>	<b>0.0000</b>	<b>35.4072</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9928	0.9928	3.0000e-005	0.0000	0.9934
<b>Total</b>	<b>4.1000e-004</b>	<b>3.0000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9928</b>	<b>0.9928</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9934</b>

### 3.3 Grading - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2007	0.0000	0.2007	0.1031	0.0000	0.1031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0524	0.5493	0.4517	9.1000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	79.8106	79.8106	0.0258	0.0000	80.4559
<b>Total</b>	<b>0.0524</b>	<b>0.5493</b>	<b>0.4517</b>	<b>9.1000e-004</b>	<b>0.2007</b>	<b>0.0237</b>	<b>0.2244</b>	<b>0.1031</b>	<b>0.0218</b>	<b>0.1250</b>	<b>0.0000</b>	<b>79.8106</b>	<b>79.8106</b>	<b>0.0258</b>	<b>0.0000</b>	<b>80.4559</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
<b>Total</b>	<b>1.0000e-003</b>	<b>7.2000e-004</b>	<b>8.4100e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4130</b>	<b>2.4130</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4146</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0783	0.0000	0.0783	0.0402	0.0000	0.0402	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0482	0.5437	9.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	79.8105	79.8105	0.0258	0.0000	80.4558
<b>Total</b>	<b>0.0111</b>	<b>0.0482</b>	<b>0.5437</b>	<b>9.1000e-004</b>	<b>0.0783</b>	<b>1.4800e-003</b>	<b>0.0797</b>	<b>0.0402</b>	<b>1.4800e-003</b>	<b>0.0417</b>	<b>0.0000</b>	<b>79.8105</b>	<b>79.8105</b>	<b>0.0258</b>	<b>0.0000</b>	<b>80.4558</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
<b>Total</b>	<b>1.0000e-003</b>	<b>7.2000e-004</b>	<b>8.4100e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4130</b>	<b>2.4130</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4146</b>

## 3.4 Building Construction - 2023

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3617	3.3365	3.7411	6.2300e-003		0.1617	0.1617		0.1519	0.1519	0.0000	536.8569	536.8569	0.1308	0.0000	540.1264
<b>Total</b>	<b>0.3617</b>	<b>3.3365</b>	<b>3.7411</b>	<b>6.2300e-003</b>		<b>0.1617</b>	<b>0.1617</b>		<b>0.1519</b>	<b>0.1519</b>	<b>0.0000</b>	<b>536.8569</b>	<b>536.8569</b>	<b>0.1308</b>	<b>0.0000</b>	<b>540.1264</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0136	0.4366	0.1500	1.8900e-003	0.0590	7.8000e-004	0.0598	0.0158	7.5000e-004	0.0165	0.0000	186.9628	186.9628	0.0125	0.0000	187.2760
Vendor	5.6100e-003	0.1837	0.0589	6.3000e-004	0.0163	2.1000e-004	0.0166	4.7200e-003	2.0000e-004	4.9200e-003	0.0000	61.3836	61.3836	3.3400e-003	0.0000	61.4672
Worker	0.2966	0.2140	2.5048	7.9500e-003	0.8567	6.6500e-003	0.8633	0.2275	6.1200e-003	0.2337	0.0000	718.6201	718.6201	0.0185	0.0000	719.0826
<b>Total</b>	<b>0.3158</b>	<b>0.8343</b>	<b>2.7137</b>	<b>0.0105</b>	<b>0.9320</b>	<b>7.6400e-003</b>	<b>0.9396</b>	<b>0.2480</b>	<b>7.0700e-003</b>	<b>0.2551</b>	<b>0.0000</b>	<b>966.9665</b>	<b>966.9665</b>	<b>0.0344</b>	<b>0.0000</b>	<b>967.8258</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0758	0.5046	4.0336	6.2300e-003		9.4800e-003	9.4800e-003		9.4800e-003	9.4800e-003	0.0000	536.8563	536.8563	0.1308	0.0000	540.1257
<b>Total</b>	<b>0.0758</b>	<b>0.5046</b>	<b>4.0336</b>	<b>6.2300e-003</b>		<b>9.4800e-003</b>	<b>9.4800e-003</b>		<b>9.4800e-003</b>	<b>9.4800e-003</b>	<b>0.0000</b>	<b>536.8563</b>	<b>536.8563</b>	<b>0.1308</b>	<b>0.0000</b>	<b>540.1257</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0136	0.4366	0.1500	1.8900e-003	0.0590	7.8000e-004	0.0598	0.0158	7.5000e-004	0.0165	0.0000	186.9628	186.9628	0.0125	0.0000	187.2760
Vendor	5.6100e-003	0.1837	0.0589	6.3000e-004	0.0163	2.1000e-004	0.0166	4.7200e-003	2.0000e-004	4.9200e-003	0.0000	61.3836	61.3836	3.3400e-003	0.0000	61.4672
Worker	0.2966	0.2140	2.5048	7.9500e-003	0.8567	6.6500e-003	0.8633	0.2275	6.1200e-003	0.2337	0.0000	718.6201	718.6201	0.0185	0.0000	719.0826
<b>Total</b>	<b>0.3158</b>	<b>0.8343</b>	<b>2.7137</b>	<b>0.0105</b>	<b>0.9320</b>	<b>7.6400e-003</b>	<b>0.9396</b>	<b>0.2480</b>	<b>7.0700e-003</b>	<b>0.2551</b>	<b>0.0000</b>	<b>966.9665</b>	<b>966.9665</b>	<b>0.0344</b>	<b>0.0000</b>	<b>967.8258</b>

### 3.4 Building Construction - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1467	1.3505	1.6129	2.7000e-003		0.0615	0.0615		0.0577	0.0577	0.0000	232.6130	232.6130	0.0564	0.0000	234.0220
<b>Total</b>	<b>0.1467</b>	<b>1.3505</b>	<b>1.6129</b>	<b>2.7000e-003</b>		<b>0.0615</b>	<b>0.0615</b>		<b>0.0577</b>	<b>0.0577</b>	<b>0.0000</b>	<b>232.6130</b>	<b>232.6130</b>	<b>0.0564</b>	<b>0.0000</b>	<b>234.0220</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9200e-003	0.1878	0.0657	8.2000e-004	0.0528	3.3000e-004	0.0531	0.0135	3.2000e-004	0.0138	0.0000	80.6276	80.6276	5.4200e-003	0.0000	80.7632
Vendor	2.3700e-003	0.0793	0.0247	2.7000e-004	7.0800e-003	9.0000e-005	7.1700e-003	2.0400e-003	9.0000e-005	2.1300e-003	0.0000	26.4853	26.4853	1.4300e-003	0.0000	26.5210
Worker	0.1217	0.0845	1.0105	3.3400e-003	0.3711	2.8400e-003	0.3739	0.0986	2.6100e-003	0.1012	0.0000	301.6527	301.6527	7.3400e-003	0.0000	301.8363
<b>Total</b>	<b>0.1300</b>	<b>0.3516</b>	<b>1.1009</b>	<b>4.4300e-003</b>	<b>0.4309</b>	<b>3.2600e-003</b>	<b>0.4342</b>	<b>0.1141</b>	<b>3.0200e-003</b>	<b>0.1171</b>	<b>0.0000</b>	<b>408.7657</b>	<b>408.7657</b>	<b>0.0142</b>	<b>0.0000</b>	<b>409.1206</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0329	0.2186	1.7474	2.7000e-003		4.1100e-003	4.1100e-003		4.1100e-003	4.1100e-003	0.0000	232.6127	232.6127	0.0564	0.0000	234.0217
<b>Total</b>	<b>0.0329</b>	<b>0.2186</b>	<b>1.7474</b>	<b>2.7000e-003</b>		<b>4.1100e-003</b>	<b>4.1100e-003</b>		<b>4.1100e-003</b>	<b>4.1100e-003</b>	<b>0.0000</b>	<b>232.6127</b>	<b>232.6127</b>	<b>0.0564</b>	<b>0.0000</b>	<b>234.0217</b>



### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9200e-003	0.1878	0.0657	8.2000e-004	0.0528	3.3000e-004	0.0531	0.0135	3.2000e-004	0.0138	0.0000	80.6276	80.6276	5.4200e-003	0.0000	80.7632
Vendor	2.3700e-003	0.0793	0.0247	2.7000e-004	7.0800e-003	9.0000e-005	7.1700e-003	2.0400e-003	9.0000e-005	2.1300e-003	0.0000	26.4853	26.4853	1.4300e-003	0.0000	26.5210
Worker	0.1217	0.0845	1.0105	3.3400e-003	0.3711	2.8400e-003	0.3739	0.0986	2.6100e-003	0.1012	0.0000	301.6527	301.6527	7.3400e-003	0.0000	301.8363
<b>Total</b>	<b>0.1300</b>	<b>0.3516</b>	<b>1.1009</b>	<b>4.4300e-003</b>	<b>0.4309</b>	<b>3.2600e-003</b>	<b>0.4342</b>	<b>0.1141</b>	<b>3.0200e-003</b>	<b>0.1171</b>	<b>0.0000</b>	<b>408.7657</b>	<b>408.7657</b>	<b>0.0142</b>	<b>0.0000</b>	<b>409.1206</b>

### 3.5 Architectural Coating - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2097					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e-003	0.0341	0.0507	8.0000e-005		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	7.1491	7.1491	4.0000e-004	0.0000	7.1592
<b>Total</b>	<b>0.2147</b>	<b>0.0341</b>	<b>0.0507</b>	<b>8.0000e-005</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>7.1491</b>	<b>7.1491</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.1592</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4800e-003	3.8000e-003	0.0455	1.5000e-004	0.0167	1.3000e-004	0.0168	4.4400e-003	1.2000e-004	4.5500e-003	0.0000	13.5748	13.5748	3.3000e-004	0.0000	13.5831
<b>Total</b>	<b>5.4800e-003</b>	<b>3.8000e-003</b>	<b>0.0455</b>	<b>1.5000e-004</b>	<b>0.0167</b>	<b>1.3000e-004</b>	<b>0.0168</b>	<b>4.4400e-003</b>	<b>1.2000e-004</b>	<b>4.5500e-003</b>	<b>0.0000</b>	<b>13.5748</b>	<b>13.5748</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>13.5831</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2097					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-004	3.6100e-003	0.0513	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.1491	7.1491	4.0000e-004	0.0000	7.1592
<b>Total</b>	<b>0.2105</b>	<b>3.6100e-003</b>	<b>0.0513</b>	<b>8.0000e-005</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>7.1491</b>	<b>7.1491</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.1592</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4800e-003	3.8000e-003	0.0455	1.5000e-004	0.0167	1.3000e-004	0.0168	4.4400e-003	1.2000e-004	4.5500e-003	0.0000	13.5748	13.5748	3.3000e-004	0.0000	13.5831
<b>Total</b>	<b>5.4800e-003</b>	<b>3.8000e-003</b>	<b>0.0455</b>	<b>1.5000e-004</b>	<b>0.0167</b>	<b>1.3000e-004</b>	<b>0.0168</b>	<b>4.4400e-003</b>	<b>1.2000e-004</b>	<b>4.5500e-003</b>	<b>0.0000</b>	<b>13.5748</b>	<b>13.5748</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>13.5831</b>

### 3.6 Paving - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0208	0.2000	0.3071	4.8000e-004		9.8400e-003	9.8400e-003		9.0500e-003	9.0500e-003	0.0000	42.0557	42.0557	0.0136	0.0000	42.3958
Paving	4.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0251</b>	<b>0.2000</b>	<b>0.3071</b>	<b>4.8000e-004</b>		<b>9.8400e-003</b>	<b>9.8400e-003</b>		<b>9.0500e-003</b>	<b>9.0500e-003</b>	<b>0.0000</b>	<b>42.0557</b>	<b>42.0557</b>	<b>0.0136</b>	<b>0.0000</b>	<b>42.3958</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8800e-003	2.7000e-003	0.0322	1.1000e-004	0.0118	9.0000e-005	0.0119	3.1400e-003	8.0000e-005	3.2300e-003	0.0000	9.6200	9.6200	2.3000e-004	0.0000	9.6258
<b>Total</b>	<b>3.8800e-003</b>	<b>2.7000e-003</b>	<b>0.0322</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>9.0000e-005</b>	<b>0.0119</b>	<b>3.1400e-003</b>	<b>8.0000e-005</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>9.6200</b>	<b>9.6200</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.6258</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8900e-003	0.0255	0.3632	4.8000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	42.0557	42.0557	0.0136	0.0000	42.3957
Paving	4.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0103</b>	<b>0.0255</b>	<b>0.3632</b>	<b>4.8000e-004</b>		<b>7.9000e-004</b>	<b>7.9000e-004</b>		<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>42.0557</b>	<b>42.0557</b>	<b>0.0136</b>	<b>0.0000</b>	<b>42.3957</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8800e-003	2.7000e-003	0.0322	1.1000e-004	0.0118	9.0000e-005	0.0119	3.1400e-003	8.0000e-005	3.2300e-003	0.0000	9.6200	9.6200	2.3000e-004	0.0000	9.6258
<b>Total</b>	<b>3.8800e-003</b>	<b>2.7000e-003</b>	<b>0.0322</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>9.0000e-005</b>	<b>0.0119</b>	<b>3.1400e-003</b>	<b>8.0000e-005</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>9.6200</b>	<b>9.6200</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.6258</b>

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**IBEC Removal of Additional Buildings Under Variants**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	0.00	1000sqft	0.00	0,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

Project Characteristics - Only includes construction-related emissions due to removal of additional buildings under Variants.

Land Use - Only demolition run. Land use selected as placeholder to model only construction-related emissions associated with removal of additional buildings.

Construction Phase - Based on demolition schedule.

Off-road Equipment - Demolition phase only.

Off-road Equipment - Additional demolition equipment.

Trips and VMT - Additional trips for demolition of buildings under variants.

Demolition - Additional variant buildings to be demolished.

Architectural Coating - Demolition run only.

Vehicle Trips - Demolition run only.

Area Coating - Demolition run only.

Energy Use - Demolition run only.

Water And Wastewater - Demolition run only.

Solid Waste - Demolition run only.

Construction Off-road Equipment Mitigation - Tier 4 Final equipment included.

## IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	8.59	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.93	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	177,733.75	0.00
tblWater	OutdoorWaterUseRate	108,933.59	0.00

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	78.89	90.79	-3.53	0.00	0.00	95.44	67.59	0.00	95.22	86.62	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	0.1790	0.0186
		Highest	0.1790	0.0186

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/20/2021	6	44	
2	Architectural Coating	Architectural Coating	12/14/2022	12/13/2022	5	0	

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	11.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1596	0.1665	2.6000e-004		8.9600e-003	8.9600e-003		8.5500e-003	8.5500e-003	0.0000	22.9006	22.9006	4.2700e-003	0.0000	23.0073
<b>Total</b>	<b>0.0175</b>	<b>0.1596</b>	<b>0.1665</b>	<b>2.6000e-004</b>	<b>1.1900e-003</b>	<b>8.9600e-003</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>8.5500e-003</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>22.9006</b>	<b>22.9006</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>23.0073</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>1.0000e-003</b>	<b>2.2600e-003</b>	<b>8.6800e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.5949</b>	<b>2.5949</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.5972</b>

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9200e-003	0.0126	0.1727	2.6000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	22.9005	22.9005	4.2700e-003	0.0000	23.0072
<b>Total</b>	<b>2.9200e-003</b>	<b>0.0126</b>	<b>0.1727</b>	<b>2.6000e-004</b>	<b>1.1900e-003</b>	<b>3.9000e-004</b>	<b>1.5800e-003</b>	<b>1.8000e-004</b>	<b>3.9000e-004</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>22.9005</b>	<b>22.9005</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>23.0072</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>1.0000e-003</b>	<b>2.2600e-003</b>	<b>8.6800e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.5949</b>	<b>2.5949</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.5972</b>



IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

7.1 Mitigation Measures Water

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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Robert B. Hodil  
D 415.772.5738  
rhodil@coblentzlaw.com

June 12, 2019

**VIA E-MAIL AND U.S. MAIL**

Ms. Kate Gordon  
Director  
Office of Planning and Research  
1400 10th Street  
Sacramento, CA 95814

Re: Supplemental Submittal re: AB 987 Application for the Inglewood Basketball and Entertainment Center Project (Clearinghouse No. 2018021056)

Dear Ms. Gordon:

This firm represents Murphy's Bowl, LLC ("Murphy's Bowl") regarding the Inglewood Basketball and Entertainment Center project (the "IBEC Project").

On August 31, 2018, the Legislature passed Assembly Bill 987, and in it recognized the unique circumstances presented by the IBEC Project due to its location in the highly underserved community in the City of Inglewood—an economically disadvantaged city with one of the highest percentages of minority residents in Southern California. It acknowledges the essential economic stimulus that the IBEC Project's construction of a major sports venue will provide. The criteria for the Governor's certification under AB 987 recognizes the opportunity presented by the IBEC Project to advance the aspirations and environmental conditions of this community. The criteria are specific and the AB 987 application materials submitted on January 2, 2019, (the "IBEC Project AB 987 Application") establish conclusively that the IBEC Project meets them.

We urge that you reject the project opponents' attempts to thwart the Legislature's intent through distraction, delay, and requests for extraneous information that have no bearing on the AB 987 process.<sup>1</sup> We further request that you complete your review of the IBEC Project AB 987 Application promptly and forward it to the Governor for certification.

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<sup>1</sup> This is not an EIR process—which is unaffected. It is only a process that in the end obtains privately financed valuable environmental benefits otherwise unavailable to Inglewood. In exchange, AB 987 does nothing more than provide the same expedited litigation schedule afforded others.

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 2

The IBEC Project Meets and Exceeds the Requirements for Certification.

On January 2, 2019, Murphy's Bowl submitted the IBEC Project AB 987 Application, in accordance with AB 987 and OPR's AB 900 Guidelines, supported by detailed technical analyses. At your request, this letter attaches supplemental information on a few topics. This information is similar in substance and scope to supplemental memoranda that have been submitted on AB 900 applications. Accordingly, we expect and request that this submittal be treated in the same manner as those for previous AB 900 projects - as supplemental materials triggering a 7-day public review period - consistent with the Governor's Guidelines for Streamlining Judicial Review Under the California Environmental Quality Act Pursuant to AB 900.<sup>2</sup>

We have carefully reviewed the opposition letters with AECOM, the environmental technical experts who performed the analysis and prepared the application materials. While lengthy, the opposition letters actually only raise few potentially relevant issues. This letter explains why the IBEC Project meets the statutory requirements for certification and summarizes supplemental technical memoranda from AECOM addressing the actual modest technical issues raised in the letters, as follows:

- The TDM Program (Attachment C to the IBEC Project AB 987 Application) is supplemented by modifying one measure to additionally provide for discounted rides or other similar benefits for event attendees sharing transportation network company rides to or from an event. See Supplemental Transportation Demand Management (TDM) Technical Memorandum, attached as Attachment 1.
- The IBEC TDM Program will achieve AB 987's trip reduction requirements. See Trip Generation Supplemental Technical Memorandum, attached as Attachment 2, which describes refinements to Attachment D: IBEC Trip Generation Memorandum of the IBEC Project AB 987 Application.
- The IBEC Project will result in net zero greenhouse gas emissions. See Greenhouse Gas Supplemental Technical Memorandum, attached as Attachment 3, which describes refinements to Attachment G: Greenhouse Gas (GHG) Analysis of the IBEC Project AB 987 Application.

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<sup>2</sup> These Guidelines apply to the IBEC Project pursuant to Public Resources Code Section 21158.6.8(c)(3).

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 3

- The IBEC Project meets AB 987's prevailing and living wage requirements. See letter dated April 4, 2019, from Los Angeles/Orange County Building and Construction Trades Council, attached as Attachment 4, confirming that, on behalf of its affiliated Local Unions and District Councils, it has entered into a Project Labor Agreement for the IBEC Project.

In addition, as a courtesy to assist with your review of the IBEC Project AB 987 Application, AECOM has prepared an AB 987 IBEC Replies to Correspondence memorandum, which is also included in this submittal. The memorandum provides a summary response to each of the key opposition letter claims. For each such claim, it details why no additional information or revisions are necessary, or summarizes refinements that have been made to the analysis.

#### Opponents' Attempts to Thwart the Legislature Must Be Rejected.

The letters submitted by attorneys for IBEC Project opponent MSG Forum, LLC ("MSG") and its allies<sup>3</sup> are the latest missives in an ongoing effort by MSG to spread disinformation, prevent development of the IBEC Project and stifle competition for MSG's event venue. The bulk of the substantive comments on the IBEC Project AB 987 Application come from MSG and IRATE and are part of an unprecedented effort to try to overwhelm your agency's responsible substantive review and the resources of the City of Inglewood.

MSG and its allies know that the AB 987 criteria are limited, and that the IBEC Project meets them. No hyper-technical creative reading—or ignorance of the actual AB 987 criteria—changes this. MSG hopes to delay the certification process by convincing you that the IBEC Project AB 987 Application must meet the much more detailed requirements for an EIR project description and environmental impacts analysis. That, of course, is incorrect.

The essence of the opponents' claim is that you should apply some other standard to this limited purpose, streamlining application—something other than that set forth in AB 987. The level of detail in the IBEC Project AB 987 Application's project description is complete. It also is similar to that found in approved AB 900 applications, and is sufficient to enable OPR and

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<sup>3</sup> In MSG's discovery responses in one of the several lawsuits it has filed against the City of Inglewood, MSG admitted that it is paying the attorney's fees for Chatten-Brown, Carstens & Minter, which represents a purported group of unnamed membership under the moniker of "Inglewood Residents Against Takings and Evictions" ("IRATE") in two *other* actions against the City seeking to block the IBEC Project. (See April 17, 2019, Amended Responses to City Defendants' Requests for Admission, Nos. 4, 5, and 6.). All more of the same "exhaust the City resources" strategy.

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 4

CARB to review and analyze the IBEC Project and its satisfaction of the statutory criteria for certification for streamlining. The Governor's Office of Planning and Research and California Air Resources Board should view the letters submitted by MSG and its allies skeptically.

A second letter from MSG and letters from Climate Resolve and the Natural Resources Defense Council were submitted after the 30-day deadline for comments, and in MSG's case, several months after the deadline. These late letters do not require consideration and should be disregarded by CARB and OPR. However, in an abundance of caution and in furtherance of improving the public's understanding, this submittal addresses all substantive issues raised in the late correspondence and, as further detailed below, makes clear that:

1. The IBEC Project AB 987 Application's greenhouse gas emissions analysis baseline and methodology are sound and consistent with CEQA and with prior CEQA streamlining precedent.
2. The IBEC Project AB 987 Application demonstrates that the proposed TDM Program for the IBEC Project will achieve the enforceable obligation to attain a 15 percent vehicle trip reduction.
3. The IBEC Project AB 987 Application demonstrates that the IBEC Project will attain LEED Gold certification.
4. The IBEC Project AB 987 Application demonstrates that the IBEC Project is consistent with the Regional Transportation Plan/Sustainable Communities Strategy.
5. The IBEC Project AB 987 Application demonstrates that the IBEC Project will result in a minimum investment of \$100 million in California.
6. The IBEC Project AB 987 Application demonstrates that the IBEC Project will have a project labor agreement.
  1. The IBEC Project AB 987 Application's greenhouse gas emissions analysis baseline and methodology are sound and consistent with CEQA and with prior CEQA streamlining precedent.

MSG makes several arguments regarding alleged use of an incorrect baseline to evaluate greenhouse gas (GHG) emissions, and establish that 50% of the GHG emissions reductions achieved for the IBEC Project result from local, direct measures, some of which are echoed in letters submitted by others.

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 5

They argue that the baseline should be adjusted year-to-year over the 30-year life of the IBEC Project. The baseline is consistent with the CEQA Guidelines and case law and is based on precedent from other projects previously certified for CEQA streamlining under AB 900, including the Portrero Power Station, 10 South Van Ness, and 8150 Sunset Boulevard projects. There is no reason for the GHG analysis for the IBEC Project to be treated any differently than other certified streamlining projects.

MSG and other commenters criticize the IBEC Project AB 987 Application's baseline assumptions that existing LA Clippers games at the Staples Center would not be replaced with other events, and that non-Clippers events at the IBEC Project would be moved from other existing venues and not replaced with other events (i.e., a portion of the events anticipated to be hosted at the IBEC Project would be "market-shifted" events within the Los Angeles regional market rather than new events in the region creating net new vehicle trips and associated GHG emissions). The IBEC Project AB 987 Application's assumptions are reasonable, and supported by the analysis in it. However, in consideration of the correspondence, they have been further refined based on additional analysis performed by Conventions, Sports & Leisure International ("CSL"), experts in the sports, entertainment, convention, and visitor industries, which is reflected in the supplemental GHG analysis enclosed herein as Attachment 3. CSL reasonably estimates that up to seven of the vacated event days per year at the Staples Center made available by relocation of the LA Clippers to the IBEC arena would be utilized to host another event type. Although as the IBEC Project AB 987 Application stated, it continues to be speculative as to how the LA Clippers existing training and practice facility in Playa Vista might be reused, the refined supplemental analysis conservatively assumes its replacement with a use that would generate the same level of emissions, so that the existing GHG emissions from that facility are no longer credited against the IBEC Project's GHG emissions.

MSG also argues speciously that the baseline cannot include emissions from off-site uses that would cease or reduce operations when those uses are transferred to the IBEC Project. The regulations and rules MSG relies on pertain to stationary sources of air pollutants and are irrelevant to the requirement under AB 987 for the IBEC Project to achieve net zero GHG emissions.

MSG's late submittal regarding demolition credit for the 3333 California and Hollywood & Wilcox projects is similarly off base. Neither of those projects involved the relocation of uses or activities from other sites to the project sites and, therefore, the issue of credits for offsite uses that would cease operations was not addressed in CARB's determinations regarding those projects.

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 6

The refined greenhouse gas analysis indicates that the IBEC Project would achieve 49.5 percent of emissions reduction through implementation of the IBEC TDM Program for the IBEC Project, or approximately 99 percent of the emission reductions from local, direct measures required by AB 987, and 50.1 percent for the IBEC Project Variants. As explained in Attachment 3, and consistent with the requirements of AB 987 set forth in Public Resources Code section 21168.6.8(j)(3), the IBEC Project will include one or more additional local, direct measures if necessary to meet the 50 percent local, direct emission reductions requirement, potentially including, but not limited to: (1) additional renewable energy production through installation of additional photovoltaic systems as carports on a third parking structure, (2) purchase of energy for onsite consumption through the Southern California Edison (SCE) Green Rate which facilitates SCE's purchase of renewable energy to meet the needs of Green rate participants from solar renewable developers within the SCE service territory; or (3) if available after approval by applicable regulatory agencies, on-site use of renewable natural gas.

In sum, the greenhouse gas analysis is well supported, consistent with other AB 900 precedent, and meets the requirements for certification.

2. The IBEC Project AB 987 Application demonstrates that the proposed TDM Program for the IBEC Project will achieve the enforceable obligation to attain a 15 percent vehicle trip reduction.

MSG also alleges defects in the analysis of the trip reduction that would be achieved by the proposed TDM Program, relying on their consultant's unsubstantiated "observational data" that does not meet industry best practices. The arguments ignore the facts: AB 987 requires the Clippers to verify to the City of Inglewood that the required vehicle trip reduction goal is achieved and maintained, and that the City and applicant already have entered into a binding and enforceable agreement, included in the IBEC Project AB 987 Application package, implementing this requirement. Simply put, the opponents wish you to believe the facts are different or that some other standard applies. It does not.

3. The IBEC Project AB 987 Application demonstrates that the IBEC Project will attain LEED Gold certification.

MSG argues that the IBEC Project AB 987 Application did not adequately demonstrate that the IBEC Project will attain LEED Gold certification. The attached AECOM memorandum establishes that sufficient information has been provided to demonstrate compliance with LEED Gold certification requirements. It is consistent with the level of information submitted for other AB 900 applications. And again, the opponents ignore the fact that the City and applicant have entered into a binding and enforceable agreement, included in the IBEC Project AB 987

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 7

Application package in full conformity with the precise requirements of AB 987, which requires the applicant to attain LEED Gold certification.

4. The IBEC Project AB 987 Application demonstrates that the IBEC Project is consistent with the Regional Transportation Plan/Sustainable Communities Strategy.

The IBEC Project AB 987 Application has demonstrated that the IBEC Project is consistent with the 2016 Regional Transportation Plan/Sustainable Communities Strategy ("RTP/SCS") approved by the Southern California Association of Governments ("SCAG").

Contrary to arguments made by MSG, the RTP/SCS does not prescriptively direct where growth must go or dictate land uses, density, or intensity for any specific development or site. The RTP/SCS acknowledges that increases in population, households, and employment demand will induce land use changes. It seeks to support sustainable growth through a more compact, infill and walkable development pattern by encouraging new density and intensity in High Quality Transit Areas (HQTAs) and other infill opportunity areas that are accessible to transit.

The SCAG existing land use and General Plan land use maps, regional development types, land development categories and urban footprint place types in the appendices to the RTP/SCS are analytical tools. They reflect general land uses across the region and serve as a basis for modeling different potential land use and transportation outcomes. The RTP/SCS does not require specific development to be consistent with these maps and related modeling information. Rather, consistency is measured against the RTP/SCS's numerous provisions and policies that encourage growth in infill areas accessible to transit. As detailed in the IBEC Project AB 987 Application, the IBEC Project is consistent with and furthers these policies.

MSG also makes a spurious argument that the IBEC Project AB 987 Application somehow does not comply with AB 987 because the 2016 RTP/SCS does not achieve CARB's current target for GHG emissions reductions. The clear language of the AB 987 statute simply requires that the IBEC Project be consistent with an RTP/SCS that CARB has accepted, and the 2016 RTP/SCS meets that standard. It could have said something different. It does not. CARB and OPR have approved AB 900 applications for other projects based on consistency with the 2016 RTP/SCS since CARB increased its GHG emission reduction target.

5. The IBEC Project AB 987 Application demonstrates that the IBEC Project will result in a minimum investment of \$100 million in California.

The IBEC Project AB 987 Application provides sufficient information to demonstrate that the IBEC Project would satisfy the requirement to result in a \$100 million dollar investment in California upon completion of construction. It would be impossible to construct a new NBA

Ms. Kate Gordon  
Office of Planning and Research  
June 12, 2019  
Page 8

arena and the other uses described in the IBEC Project AB 987 Application's Project Description without far exceeding that amount and opponents have presented no credible evidence to the contrary.

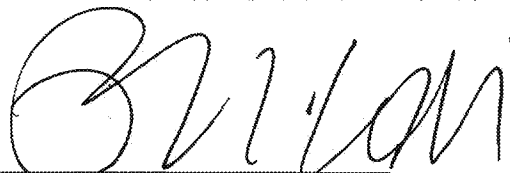
6. The IBEC Project AB 987 Application demonstrates that the IBEC Project will have a project labor agreement.

As stated in the IBEC Project AB 987 Application, the Applicant has already entered into a project labor agreement (PLA) to fulfill the prevailing wage, living wage, and skilled and trained workforce requirements of AB 987. This supplemental submittal includes a letter dated April 4, 2019, from Los Angeles/Orange County Building and Construction Trades Council confirming that, on behalf of its affiliated Local Unions and District Councils, it has entered into a Project Labor Agreement for the IBEC Project (Attachment 4).

In sum, the IBEC Project AB 987 Application meets all of the requirements for certification of the IBEC Project for CEQA streamlining under AB 987. All of the issues raised in the correspondence received by OPR and CARB are addressed in this supplemental submittal, are irrelevant, are intentionally misguided, or are belated and should be rejected. We very much appreciate and look forward to OPR and CARB's prompt review and the Governor's certification of the IBEC Project for CEQA streamlining. We would be glad to discuss any questions either agency may have at your earliest convenience.

Very truly yours,

COBLENTZ PATCH DUFFY & BASS LLP

By:   
Robert B. Hodil

cc: Mary Nichols, Chair, Air Resources Board  
Richard Corey, Executive Director, Air Resources Board  
Steven Cliff, Deputy Executive Officer, Air Resources Board  
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## **Attachment 1**

# **IBEC Transportation Demand Management Program (IBEC TDM Program) Supplemental Technical Memorandum**

## Attachment 1: IBEC Transportation Demand Management Program (IBEC TDM Program) Supplemental Technical Memorandum

To Office of Planning and Research, California Air Resources Board Page 1

Subject IBEC Transportation Demand Management Program (IBEC TDM Program) Supplemental Technical Memorandum

Prepared by: AECOM  
300 California Street, Suite 600 San Francisco, CA

Date June 3, 2019

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### Introduction

This technical memorandum describes a refinement to Attachment C: IBEC Project Transportation Demand Management (TDM) Program Memorandum of the Assembly Bill (AB) 987 application for the Inglewood Basketball and Event Center (IBEC; IBEC Project) submitted January 2019. Specifically, this technical memorandum identifies an additional incentive to encourage carpooling for shared mobility users.

### Supplemental Analysis Update to TDM Program

An additional incentive has been added to ***TDM 3 – Encourage Carpools and Zero Emission Vehicles*** to further encourage carpooling among shared mobility users attending IBEC events. The updated text modifies the first bullet point of TDM 3 and is shown below in red font. The additional incentive would provide discounted rides (or other, similar benefits) for event attendees sharing transportation network company (TNC) rides to or from the event, with a goal of increasing attendee average vehicle occupancy (AVO) for the shared mobility mode. The LA Clippers organization would coordinate and work with TNCs to implement this incentive.

- Provide incentives for carpools or zero-emission vehicles, including preferential parking with the number of parking spots in excess of applicable requirements, reduced parking costs, discounted rides (or other, similar benefits) for those sharing transportation network company (TNC) rides to or from the event, or other discounts/benefits.

## **Attachment 2**

### **Trip Generation Supplemental Technical Memorandum**

## Attachment 2: Trip Generation Supplemental Technical Memorandum

To Office of Planning and Research, California Air Resources Board Pages 11

Subject AB 987 Application for the Inglewood Basketball and Event Center (IBEC) Project Trip Generation Supplemental Technical Memorandum

From AECOM, 300 California Street, Suite 600, San Francisco, CA

Date June 2019

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### Introduction

The Assembly Bill (AB) 987 application for the Inglewood Basketball and Entertainment Center Project (IBEC Project AB 987 Application) submitted in January 2019 included the IBEC Project Trip Generation Memorandum as Attachment D. That memorandum evaluates the effectiveness of the proposed IBEC Transportation Demand Management Program, as described in Attachment C to the application submitted in January 2019 (IBEC TDM Program) by comparing the estimated annual trip generation for the IBEC Project without implementation of the IBEC TDM Program (the IBEC Project Without IBEC TDM Program Scenario) to the estimated annual trip generation for the IBEC Project with implementation of the IBEC TDM Program (the IBEC Project With IBEC TDM Program Scenario) to determine the annual trip reduction resulting from implementation of the IBEC TDM Program.

The IBEC Project Trip Generation Memorandum provides a detailed description of the methodology used to calculate the annual trip generation for the IBEC Project and the reduction in vehicle trips resulting from implementation of the IBEC TDM Program. This technical memorandum describes a refined supplemental trip generation analysis. These refinements are the result of updated information regarding the parking configuration of the IBEC Project, additional research and analysis, and revisions to the analysis made in consideration of correspondence regarding the IBEC Project AB 987 Application submitted in January 2019. These refinements also reflect the modification of one IBEC TDM Program measure to additionally provide for discounted rides or other similar benefits for event attendees sharing transportation network company rides to or from an event. (See Attachment 1, IBEC Transportation Demand Management Program (IBEC TDM Program) Supplemental Technical Memorandum).

This supplemental technical memorandum identifies the specific changes and corrections made to analysis assumptions or data and presents the refined results of the supplemental analysis to be incorporated into the IBEC Project AB 987 Application. This memorandum includes the following specific changes to the IBEC Project Trip Generation Memorandum:

- **Ancillary Use Trip Generation Rates**

Trip generation rate refinements were made to the LA Clippers organization office and team practice and training facility and for the sports medicine clinic. These refinements to the trip generation rates for these land uses were made in consideration of correspondence regarding the IBEC Project AB 987 Application submitted in January 2019. Replies to correspondence are included in Attachment 5 to this supplemental submittal.

Internal trip capture between ancillary land uses was updated to reflect the refined trip generation rates for these three uses, and the methodology for estimating and applying trip capture reductions was modified to improve the overall precision of the calculation. As explained in detail below, trip generation for all ancillary uses during events was also revised to reflect a lower, more conservative trip capture rate, and a few miscalculations in the application of daily trip rates for weekends for the ancillary uses were rectified.

- **Average Vehicle Occupancy for Events**

Refinements were made to the average vehicle occupancy (AVO) for event employees and attendees in the IBEC Project Without IBEC TDM Program Scenario. These refinements to the AVO use updated and additional survey information obtained since January 2019 to reflect existing and anticipated travel behavior and patterns. Adjustments were also made to the IBEC Project With IBEC TDM Program Scenario to reflect updated information regarding anticipated use of additional off-site parking available in the area near the IBEC Project site, thereby reducing event employee and attendee AVO for the drive mode to lower, more conservative values.

- **Mode Share Percentages for Events**

This updated analysis includes refinements to the mode share percentages for employees and attendees under the IBEC Project With TDM Program Scenario. The mode share assumptions were adjusted to account for anticipated use of additional off-site parking available in the area near the IBEC Project site by event employees and attendees, resulting in somewhat higher, more conservative mode shares for driving and lower mode shares for public transit, charter coaches, vanpools, microbuses / microtransit, and walking.

The following sections of this supplemental technical memorandum provide more detailed explanations for each of the bulleted items above, as well as updated estimates of annual trip generation for the IBEC Project Without IBEC TDM Program Scenario and IBEC Project With TDM Scenario, updates to the tables included in the IBEC Project Trip Generation Memorandum that are affected by these refinements to the analysis, and an updated calculation of annual trip reduction resulting from implementation of the IBEC TDM Program. The refinements and modifications described below replace or refine the analysis included in the IBEC Project Trip Generation Memorandum. The analysis and tables in the IBEC Project Trip Generation Memorandum that are not affected by these changes are not included in this memorandum.

## Supplemental Trip Generation Analysis

### Ancillary Use Trip Generation Rates

The supplemental transportation analysis has been refined to reflect higher trip generation rates for the LA Clippers organization office and the team practice and training facility. The trip generation rate for the sports medicine clinic has also been changed to the correct rate from the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th edition).

Table 2 in the IBEC Project Trip Generation Memorandum provides a summary of the ancillary uses and the corresponding square footages and trip rates applied for the vehicle trip generation calculation. The refined Table 2 provided below replaces that table. The adjusted values are highlighted in yellow.

As shown in the refined Table 2, the trip generation rate for the LA Clippers organization office has been replaced with a more conservative ITE trip rate of 7.95 trips per 1,000 square feet for a “corporate headquarters building.” In the Attachment D IBEC Project Trip Generation Memorandum, trip generation for the LA Clippers organization office, based on the number of employees and assumed values for mode shares and AVO, was estimated at approximately 91,520 annual vehicle trips prior to application of trip reductions for internal trip capture. The corresponding value in this supplemental analysis, which uses the “corporate headquarters building” ITE trip rate based on square footage, is approximately 146,757 annual vehicle trips, prior to application of internal trip capture reductions.

For the practice/training facility, the assumed trip rate has been increased to 2.00 trips per employee, which effectively assumes that each employee is present every day and will make two trips per day (one to the facility and one leaving the facility). In the Attachment D IBEC Project Trip Generation Memorandum, trip generation for the practice/training facility was estimated using the same approach as for the LA Clippers organization office, based on the number of employees and assumed values for mode shares and AVO. With those assumptions, the effective trip rate provided in the IBEC Project Trip Generation Memorandum submitted in January 2019 was 1.28 trips per employee.

The trip generation rate for the sports medicine clinic has also been corrected, replacing the lower, erroneous value of 30.18 trips per 1,000 square feet used in the IBEC Project Trip Generation Memorandum with the higher, correct value of 38.16 trips per 1,000 square feet.

Table 2 – Ancillary Land Uses and Trip Generation Rates					
Land Use	Size		Land Use Code	Weekday Daily Average Rate	Weekend Daily Average Rate
LA Clippers Team Office (Management and Operations Employees)	71	TSF	ITE 714 – Corporate Headquarters	7.95	--
LA Clippers Team Practice & Training Facility – (Basketball Operations Employees)	54	EMP	AM: 1 Trip Per Employee; PM: 1 Trip Per Employee	2.00	--
Sports Medicine Clinic	25	TSF	ITE 630 – Clinic	38.16	--
Community Space	15	TSF	ITE 495 – Recreational Community Center	28.82	--
Full-Service Plaza Restaurant/Bar	7	TSF	ITE 931 – Quality Restaurant	83.84	90.04
Full-Service Restaurant/Lounge	8	TSF	ITE 931 – Quality Restaurant	83.84	90.04
Coffee Shop	5	TSF	ITE 930 – Fast Casual Restaurant	315.17	318.62
Quick-Service Restaurant	4	TSF	ITE 930 – Fast Casual Restaurant	315.17	318.62
LA Clippers Team Store	7	TSF	SANDAG – Specialty Retail	40.00	40.00
Other General Retail & Service	17	TSF	SANDAG – Specialty Retail	40.00	40.00
Hotel (limited service no restaurant)	150	RM	ITE 312 – Business Hotel	4.02	5.79

Yellow shading indicates values or assumptions that are different from the IBEC Project Trip Generation Memorandum included as Attachment D to the IBEC Project AB 987 Application as submitted in January 2019.

The internal trip capture assumptions for ancillary uses—which are based on National Cooperative Highway Research Program (NCHRP) Report 684: Enhancing Internal Trip Capture Estimation for Mixed-Use Developments—were updated to reflect the changes in trip generation for the LA Clippers organization office, team practice and training facility, and sports medicine clinic. The methodology for estimating and applying the trip capture percentages using NCHRP Report 684 was also updated to improve the overall precision of the calculation. To simplify the calculation, the IBEC Project Trip Generation Memorandum submitted in January 2019 estimated trip capture percentages based on average daily traffic (ADT), and then applied the estimated percentages to each ancillary use individually. This supplemental analysis refines the approach, estimating trip capture percentages based on weekday PM peak-hour vehicle trips to improve the overall precision of the calculation. A single internal trip capture percentage was then applied uniformly to all ancillary uses to avoid inconsistencies that may arise due to differences in the estimated trip capture percentages between entering (inbound) and exiting (outbound) traffic.

Internal trip capture assumptions for ancillary uses during events were also reduced slightly to reflect lower, more conservative values. The analysis for the IBEC Project Trip Generation Memorandum submitted in January 2019 assumes a 100% trip capture rate between IBEC events and ancillary uses, based on the assumption that any visitor entering the IBEC Project site (even if only to visit an ancillary use) during an event would go through the security screening process implemented for the event, regardless of whether or not they are attending the event. With this security screening process in effect during events at IBEC, the January 2019 analysis assumed that it would be unlikely that ancillary use customers who are not attending an IBEC event would visit the ancillary uses during an event. The supplemental analysis now reflects a more conservative internal trip capture rate of 81% between events and ancillary uses, derived based on a weighted average of trip capture rates for large events and small events. This updated internal trip capture rate accounts for non-event-attendee visitors to the ancillary uses during events.

The IBEC Project Trip Generation Memorandum submitted in January 2019 also included an error in the application of daily trip rates for weekends for the ancillary uses. In the IBEC Project Trip Generation Memorandum submitted in January 2019, the calculation of weekend vehicle trips for the ancillary uses erroneously referenced the weekday daily trip rates. The supplemental transportation analysis corrects this error in the weekend vehicle trip estimates by appropriately referencing the weekend daily trip rates.

With the refinements to the ancillary use trip generation assumptions and calculations described above, the total annual trip generation estimates have increased for some ancillary uses and decreased for others relative to the IBEC Project Trip Generation Memorandum submitted in January 2019. The supplemental analysis results in a total annual trip estimate across all of the ancillary uses that is higher (and more conservative) than the analysis included in the IBEC Project Trip Generation Memorandum submitted in January 2019, as summarized in **Table A**.

<b>Table A – Supplemental Technical Memorandum Ancillary Use Trip Generation Comparison</b>		
	<b>IBEC Project Trip Generation Memorandum (January 2019)</b>	<b>IBEC Project Trip Generation Supplemental Technical Memorandum (June 2019)</b>
<b>IBEC Project Without IBEC TDM Program Scenario</b>	<b>1,636,279</b>	<b>1,805,072</b>
<b>IBEC Project With IBEC TDM Program Scenario</b>	<b>1,617,610</b>	<b>1,728,157</b>



**Average Vehicle Occupancy for Events**

This supplemental transportation analysis includes refinements to AVO for event employees and attendees in the IBEC Project Without IBEC TDM Program Scenario. These refinements are based on updated and additional event surveys obtained since the submittal of the IBEC Project Trip Generation Memorandum in January 2019, and result in reductions to the assumed AVO for drive and shared mobility (e.g., TNC) modes to lower, more conservative values. The changed AVO values are shown in refined Table 4, and reflect three main data sources:

- Event-related employee AVO of 1.18, data from the 2017 National Household Travel Survey on commute trips.
- Attendee AVO of 2.27 for basketball games, based on the results of a survey of attendees of LA Clippers basketball games hosted at the Staples Center in downtown Los Angeles, California.
- Attendee AVO of 2.18 for concerts and other events, based on a review of various concert event data.

<b>Table 4 – IBEC Project Without IBEC TDM Program Average Vehicle Occupancy</b>					
Modes of Transportation		Basketball Games		Concerts/Other Events	
		Employee	Attendee	Employee	Attendee
Drive (Auto)	Weekday	1.18	2.27	1.18	2.18
	Weekend	1.18	2.27	1.18	2.18
Shared Mobility (TNC)	Weekday	1.18	2.27	1.18	2.18
	Weekend	1.18	2.27	1.18	2.18

Yellow shading indicates values or assumptions that are different from the IBEC Project Trip Generation Memorandum included as Attachment D to the IBEC Project AB 987 Application as submitted in January 2019.

As shown in the updated Table 7, below, these revised AVO assumptions result in a higher number of projected annual trips for employees and attendees in the IBEC Project Without IBEC TDM Scenario.

In conjunction with these refinements to AVO in the IBEC Project Without IBEC TDM Program Scenario, this supplemental transportation analysis also includes corresponding refinements to event employee and attendee AVO for the drive mode in the IBEC Project With IBEC TDM Program Scenario. These refinements continue to reflect a projected increase in employee and attendee AVO with implementation of the IBEC TDM Program, but show lower AVO values for the drive mode relative to the application submitted in January 2019. These lower, more conservative AVO values account for anticipated use of additional available parking in the areas near the IBEC Project site by event employees and attendees who drive to the IBEC Project site for an event, and are summarized in refined Table 6.

Modes of Transportation		Basketball Games		Concerts/Other Events	
		Employee	Attendee	Employee	Attendee
Drive (Auto)	Weekday	1.42	2.59	1.42	2.57
	Weekend	1.42	2.82	1.42	2.80
Shared Mobility (TNC)	Weekday	1.50	2.70	1.50	2.70
	Weekend	1.50	3.00	1.50	3.00

Yellow shading indicates values or assumptions that are different from the IBEC Project Trip Generation Memorandum included as Attachment D to the IBEC Project AB 987 Application as submitted in January 2019.

The revised AVO assumptions result in a higher number of projected annual trips for employees and attendees in the IBEC Project With IBEC TDM Scenario, as shown in Table 7 below.

**Mode Share Percentages for Events**

This supplemental trip generation analysis also incorporates more conservative assumptions regarding mode share percentages as compared to the IBEC Project Trip Generation Memorandum submitted in January 2019 to account for the use of additional off-site parking lots in the area by event employees and attendees. These changes are represented in refined Table 5. In particular, the drive mode share has been substantially increased to a more conservative value, with corresponding reductions in mode share percentages for public transit (rail and bus), charter coaches (“park-n-ride”), vanpools, microbuses/microtransit, and walking modes. These refinements reflect a one-third (33%) reduction in mode share for these non-drive modes as compared to the application submitted in January 2019, with the difference being shifted directly to an increased drive mode share.

With these refinements, the IBEC project continues to show a decrease in the drive mode share (and increases in the share of transit and other modes) in the IBEC Project With IBEC TDM Program Scenario relative to the IBEC Project Without IBEC TDM Scenario, but with more conservative assumptions overall for mode split. A fan survey conducted by the LA Clippers organization during the 2018/19 season indicates a drive mode share of 77% and a public transit mode share of 9% among fans attending LA Clippers games at the Staples Center. With the mode split shown in the refined Table 5, the supplemental analysis assumes a higher overall drive mode share and lower public transit mode share for the IBEC Project—even with implementation of the IBEC TDM Program—than for the Staples Center, even though there is no formal TDM program (nor are there other similar measures) currently in effect for LA Clippers games at the Staples Center.

<b>Table 5 – IBEC Project With IBEC TDM Program Transportation Mode Shares</b>				
Modes of Transportation	Basketball Games / Concerts		Other Events	
	Employee	Attendee	Employee	Attendee
Drive % (Auto)	77%	74%	77%	85%
Transit – Metro Rail %	7%	7%	7%	3%
Transit - Public Bus %	7%	1%	7%	1%
Charter Coaches %	0%	7%	0%	0%
Vanpool %	3%	0%	3%	0%
Minibuses / Microtransit %	3%	1%	3%	1%
Shared Mobility (TNC) %	1%	10%	1%	10%
Walk %	1%	0%	1%	0%
Bike %	1%	0%	1%	0%
Total of Other Modes of Transportation	23%	26%	23%	15%
Total Mode Share Percentage	100%	100%	100%	100%

Yellow shading indicates values or assumptions that are different from the IBEC Project Trip Generation Memorandum included as Attachment D to the IBEC Project AB 987 Application as submitted in January 2019.

### Supplemental Analysis Project Vehicle Trip Generation

Based on the refinements discussed above, the refined trip generation estimates for the IBEC Project Without IBEC TDM Program Scenario and the IBEC Project With IBEC TDM Program Scenario are represented in refined Table 7 below. Results are tabulated by land use and day (weekday or weekend).

As shown in refined Table 7, the refinements and corrections to the trip generation analysis described above result in changes to the annual trip generation for all proposed land uses included in the IBEC Project as compared to the January 2019 IBEC Project Trip Generation Memorandum. The annual vehicle trip generation is 3,841,388 vehicle trips for the IBEC Project Without IBEC TDM Program Scenario, and 3,238,459 vehicle trips for the IBEC Project With IBEC TDM Program Scenario.

<b>Table 7 – IBEC Project Vehicle Trip Generation Summary</b>						
<b>IBEC Project Without IBEC TDM Program</b>						
IBEC Project	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	116,284	0	72,996	0	189,280
Arena (attendees)	Varies	1,120,738	0	726,298	0	1,847,036
LA Clippers Office	71 TSF	67,779	48,159	0	0	115,938
LA Clippers Practice & Training Facility	54 EMP	12,969	6,740	0	0	19,709
Sports Medicine Clinic	25 TSF	114,556	81,395	0	0	195,951
Community Space	15 TSF	51,911	36,884	0	0	88,795
Full-Service Restaurant/Bar	7 TSF	47,618	45,065	33,716	6,416	132,815
Full-Service Restaurant/Lounge	8 TSF	54,420	51,503	38,533	7,332	151,788
Coffee Shop	5 TSF	135,818	121,006	90,527	16,216	363,567
Quick-Service Restaurant (no drive thru)	4 TSF	102,288	96,805	68,178	12,973	280,244
LA Clippers Team Store	7 TSF	22,090	21,501	14,564	2,850	61,005
Other General Retail & Service	17 TSF	53,647	52,216	35,370	6,922	148,155
Hotel (limited service no restaurant)	150 RM	91,656	65,124	79,034	11,291	247,105
	<b>Total</b>	<b>1,991,774</b>	<b>626,398</b>	<b>1,159,216</b>	<b>64,000</b>	<b>3,841,388</b>

<b>Table 7 – IBEC Project Vehicle Trip Generation Summary (cont'd)</b>						
<b>IBEC Project With IBEC TDM Program</b>						
IBEC Project	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	79,952	0	50,186	0	130,138
Arena (attendees)	Varies	867,034	0	513,130	0	1,380,164
LA Clippers Office	71 TSF	64,390	45,751	0	0	110,141
LA Clippers Practice & Training Facility	54 EMP	12,969	6,740	0	0	19,709
Sports Medicine Clinic	25 TSF	108,828	77,325	0	0	186,153
Community Space	15 TSF	49,315	35,040	0	0	84,355
Full-Service Restaurant/Bar	7 TSF	45,237	42,812	32,030	6,095	126,174
Full-Service Restaurant/Lounge	8 TSF	51,699	48,928	36,607	6,965	144,199
Coffee Shop	5 TSF	129,027	114,956	86,000	15,405	345,388
Quick-Service Restaurant (no drive thru)	4 TSF	97,173	91,965	64,769	12,324	266,231
LA Clippers Team Store	7 TSF	20,985	20,426	13,836	2,708	57,955
Other General Retail & Service	17 TSF	50,965	49,605	33,601	6,576	140,747
Hotel (limited service; no restaurant)	150 RM	91,656	65,124	79,034	11,291	247,105
	<b>Total</b>	<b>1,669,230</b>	<b>598,672</b>	<b>909,193</b>	<b>61,364</b>	<b>3,238,459</b>

As a result of the refinements and changes to the analyses described in this supplemental technical memorandum, the calculation of annual trip reduction resulting from implementation of the IBEC TDM Program as shown in Table 8 of the January 2019 IBEC Project Trip Generation Memorandum has changed. As shown in refined Table 8 below, the proposed IBEC TDM program would result in an annual reduction of approximately 602,929 vehicle trips (15.696%), and would continue to meet the 15% trip reduction target required by AB 987.

<b>Table 8 – IBEC TDM Program Vehicle Trip Reduction</b>					
Scenario	Estimated Annual Vehicle Trips				Total
	Weekday		Weekend		
	Days With Events	Days Without Events	Days With Events	Days Without Events	
IBEC Project Without TDM	1,991,774	626,398	1,159,216	64,000	3,841,388
IBEC Project With TDM	1,669,230	598,672	909,193	61,364	3,238,459
Annual Vehicle Trips Reduced	-322,544	-27,726	-250,023	-2,636	-602,929
<b>% Vehicle Trips Reduced =</b>					<b>-15.696%</b>

**Attachment 3**

**IBEC Project Greenhouse Gas Analysis Supplemental  
Technical Memorandum**

## Attachment 3: GHG Analysis Supplemental Technical Memorandum

**To** Office of Planning and Research, California Air Resources Board

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**Subject** IBEC Project Greenhouse Gas Analysis Supplemental Technical Memorandum

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**From** AECOM, 300 California Street, Suite 600, San Francisco, California, 94104

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**Date** June 4, 2019

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### Introduction

This technical memorandum describes refinements to Attachment G: IBEC Project Greenhouse Gas (GHG) Analysis to the Assembly Bill (AB) 987 Application for the Inglewood Basketball and Event Center Project (IBEC; IBEC Project) submitted in January 2019 (IBEC Project AB 987 Application). The refinements are a result of updated information regarding the parking configuration of the proposed IBEC Project, additional research and analysis, and revisions made in consideration of correspondence regarding the IBEC Project AB 987 Application. A separate supplemental memorandum with a refined trip generation analysis has been prepared and included in this submittal as Attachment 2: IBEC Project Trip Generation Supplemental Technical Memorandum. The refined trip generation analysis is reflected in this refined GHG analysis.

This technical memorandum identifies the refinements to the GHG analysis for the IBEC Project and presents updated emissions results, which include the following main items:

- Baseline emissions calculations for LA Clippers games hosted at the Staples Center were updated to reflect recent average historical reported attendance at Staples Center for the average annual number of preseason, regular season, and post-season games rather than the projected attendance at IBEC.
- Based on an analysis prepared by Conventions, Sports & Leisure International ("CSL"), experts in the sports, entertainment, convention, and visitor industries, it is reasonably anticipated that, of the existing LA Clippers game days at Staples Center that will be made available by the relocation of the LA Clippers to the IBEC Project, seven event days would be utilized for non-National Basketball Association (NBA) events, with an average attendance of 10,500.
- Based on the information provided in an analysis prepared by industry experts CSL, instead of assuming that 50 percent of non-NBA events at the IBEC Project would be market-shifted (i.e., otherwise would occur at other existing venues) and 50 percent would be new to the regional market, it is now assumed that 59 percent of the 78 major non-NBA events will be market-shifted events and 41 percent will be net new to the Los Angeles regional market. In addition, baseline emissions from market-shifted events were updated to reflect actual average historical reported attendance at surrounding event centers, rather than relying on projected attendance at IBEC for these existing market-shifted events.



- It is now assumed that, after the LA Clippers move to the IBEC Project, the existing LA Clippers Training Center will be reoccupied by a replacement use that would result in the same level of GHG emissions as the existing Training Center.
- The analysis now assumes maximum attendance of approximately 18,000 for regular and post-season NBA games hosted at the IBEC Project, rather than average attendance of approximately 16,000 for regular and post-season games to provide a conservative estimate of IBEC Project emissions. The analysis also now assumes the maximum attendance, rather than the average anticipated attendance, for the annual average number of non-NBA events anticipated to be hosted at IBEC.
- The previous analysis provided an estimate of water demand based on projected water demand for similar uses and CalEEMod default assumptions. Stetson Engineers, Inc. has prepared a water demand study that uses project-specific data, which was used to refine the GHG analysis based on this updated, project-specific estimated water demand.
- As a result of changes in the IBEC Project's parking configuration to construct a third parking structure instead of a surface parking lot, the construction emissions analysis was revised to account for additional concrete deliveries during construction and other construction activities associated with the additional parking structure.
- Trip generation data, including mode splits, sports medicine clinic and office trip rates, and average vehicle occupancy were refined in the IBEC Project Trip Generation Supplemental Technical Memorandum, included as Attachment 2 to this submittal, to reflect more recent survey data and further refinements to assumptions, which are incorporated into the refined GHG analysis. Please refer to that memo for specific details.
- The refined analysis also updates the electricity emissions factors for the surrounding utilities based on recent data that became available after the IBEC Project AB 987 Application was submitted in January 2019. The electricity emissions factors for Southern California Edison, Anaheim Public Utilities, and Los Angeles Department of Water and Power were updated to be 549 pounds per megawatt-hour (lb/MWh), 1,112 lb/MWh, and 770 lb/MWh, respectively. Additional details are provided in Appendix A. Similar to the IBEC Project AB 987 Application, the electricity emission factors associated with the IBEC Project were adjusted for future years, consistent with Renewables Portfolio Standard mandates.

### Supplemental GHG Analysis

The following section details the refined IBEC Project GHG analysis and presents updated GHG emissions results. This technical memorandum includes updates to some of the tables included in Attachment G to reflect the refined analysis that are included below (Tables 3, 5, 6, 7, 8, 9, and 10 through 16). Tables 1, 2 and 4 of the IBEC Project GHG Analysis included as Attachment G to the IBEC Project AB 987 Application do not change and are therefore not included in this memorandum.

### **Baseline Conditions**

As presented in the IBEC Project AB 987 Application, the baseline annual emissions include operational emissions from the existing LA Clippers Team Offices and LA Clippers Training Center (collectively referred to as the LA Clippers Facilities), LA Clippers games at the Staples Center, market-shifted non-NBA events, and the existing on-site structures that would be removed and replaced with construction of the IBEC Project and IBEC Project Variants. The following updates to the baseline emissions are included in this supplemental submittal. For reference, the following subsections state the corresponding pages of the IBEC Project GHG Analysis included as Attachment G to the IBEC Project AB 987 Application.

### Existing LA Clippers Games at Staples Center (Attachment G, Page 9)

Baseline emissions associated with the existing LA Clippers games at Staples Center were updated to reflect historical attendance and the average annual number of events. The baseline emissions were updated to revise the annual number of existing LA Clippers games from 5 to 3 pre-season games<sup>1</sup> (estimated average attendance of 12,700 attendees). The baseline emissions calculations were also updated to utilize the average reported attendance at Staples Center for the 41 regular season games (average reported attendance of 18,736 attendees), and annual average of 3 post-season games (average reported attendance of 19,355 attendees), based on historical attendance data, with attendee travel characteristics based on recent survey data. Table 5 below presents the refined emission estimates associated with the existing LA Clippers games at Staples Center.

In addition, the emissions calculations have been updated to account for the potential “backfill” of the Staples Center (i.e., utilization of vacated LA Clippers event days to host non-NBA events). As described in more detail in the CSL May 2019 Memorandum (Subject: Staples Center LA Clippers Vacated Event Days Analysis; CSL 2019a) (**Exhibit 1**), based on the number of event days at Staples Center that would be made available for a non-NBA event by the relocation of the LA Clippers to the IBEC Project, and the historical rate at which available event days are booked for non-NBA/non-NHL events at Staples Center during the NBA season, it is reasonably estimated that the maximum potential use of vacated LA Clippers game days at Staples Center would total seven event days. As the type of event that might utilize a vacated LA Clippers game cannot be known, this analysis uses the historical average attendance for non-NBA/non-NHL events at Staples Center, as reported to industry tracker Pollstar (10,440 attendees), to estimate attendance for these seven events. Therefore, this analysis assumes that, after the LA Clippers move to the IBEC Project site, the Staples Center could host an annual average of up to 7 additional events of 10,500 attendees. The emissions associated with use of vacated LA Clippers game days are treated as indirect emissions associated with the IBEC Project. Indirect emissions associated with the potential reuse of the existing LA Clippers Team Offices and LA Clippers vacated event days at Staples Center are now summarized in Table 7a below.

### Existing LA Clippers Facilities (Attachment G, Page 8)

This supplemental memo assumes the existing LA Clippers Training Center facilities in the Playa Vista neighborhood of Los Angeles would be backfilled with a replacement use after the LA Clippers relocate to the IBEC Project. Due to the unique characteristics of the facilities and existing zoning of the site, the future use of the facilities is uncertain; however, this supplemental memo assumes that the Training Center would be backfilled by a use of the same intensity as existing operations. Therefore, these emissions are no longer subtracted to estimate the net new emissions associated with the project. Table 3 on page 15 of Attachment G: IBEC Project GHG Analysis in the IBEC Project AB 987 Application presents the operational emissions associated with the existing LA Clippers Facilities that would be relocated to the IBEC Project Site, including both the LA Clippers Training Center and the LA Clippers Team Offices. The refined Table 3, which replaces that table to include only emissions associated with the existing Team Offices, is included below. In addition, the emissions associated with the potential re-use of the Team Offices are treated as indirect emissions associated with the IBEC Project (see Table 7a below).

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<sup>1</sup> Up to 5 pre-season LA Clippers games per year potentially will occur at the IBEC Project arena, but a maximum of 3 pre-season LA Clippers per year are hosted at the Staples Center.

**Table 3. Existing LA Clippers Facilities  
(LA Clippers Team Offices)**

<b>Emissions Source</b>	<b>Operational Emissions (MT CO<sub>2</sub>e)</b>
Area	<0.1
Energy	115
Mobile	212
Waste	9
Water and Wastewater	28
<b>Total</b>	<b>364</b>

Notes: Totals may not add due to rounding.

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

Source: Modeled by AECOM in 2019

The refined Table 5 presents the baseline emissions associated with the existing LA Clippers games at Staples Center. As explained previously, the emissions associated with use of vacated LA Clippers event days are treated as indirect emissions associated with the IBEC Project (see Table 7a below).

**Table 5. Existing NBA Games**

<b>Emissions Source</b>	<b>Operational Emissions (MT CO<sub>2</sub>e)</b>
Energy	998
Mobile	5,364
Waste	122
Water and Wastewater	487
<b>Total Baseline Emissions Associated with Existing LA Clippers Games</b>	<b>6,971</b>

Notes: Totals may not add due to rounding.

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

Source: Modeled by AECOM in 2019

**Market-Shifted Events (Attachment G, Page 9)**

As stated in the IBEC Project AB 987 Application, it is anticipated that the IBEC Project will host approximately 194 non-NBA events on an average annual basis, including an average of up to 5 large concerts, 8 medium concerts, and 10 small concerts, an average of 20 family shows, and an average of up to 35 other sporting or entertainment events, as well as an average of up to 100 community or corporate events and 16 plaza events. These totals represent the maximum number and type of non-NBA events reasonably anticipated to be hosted at the IBEC Project site on an average annual basis, though the actual total number and type of events may vary year to year. The projections of average annual events at IBEC assume that, in order for the IBEC Project to host this number of events, a portion of the total number of non-NBA events anticipated to be hosted at the IBEC Project site that would otherwise occur at a different venue in the Los Angeles regional market would be “market-shifted” to IBEC, and that some portion of those events would be net new to the Los Angeles regional market and would not otherwise occur absent construction of the IBEC Project.

The analysis included in Attachment G to the IBEC Project AB 987 Application, based on a preliminary assessment by CSL, assumed that 50 percent of all non-NBA events anticipated to be hosted at the IBEC Project would be market-shifted from other existing venues in the region, and 50 percent of the non-NBA events would be new to the regional market. Since submittal of the application, CSL has prepared a more refined market analysis. As discussed in more detail in the CSL report included as

**Exhibit 2** (Los Angeles Incremental Events Analysis, CSL 2019b), based on IBEC utilization projections, an analysis of historical data, and feedback from event promoters, it is estimated that 41 percent of the 78 major non-NBA events anticipated to be hosted at the IBEC Project site would be net new to the market. The CSL analysis states that the event type most likely to be new to the market are the other sporting and entertainment events, followed by concerts, with family shows determined to be relatively stable and the least likely type of new to market event. In addition, the CSL analysis states that the IBEC Project is not anticipated to significantly contribute to growth in the number of corporate or community events in the market, and it is expected that the IBEC Project would host events of those types that would otherwise occur at other locations.

Based on the CSL analysis, this supplemental analysis revises the number of market-shifted events in the baseline from 50 percent to 59 percent for the major non-NBA events and plaza events anticipated to be hosted at IBEC, and 80 percent for corporate and community events, as follows:

Event Type	Number of Anticipated Annual Average Events at IBEC	Percent Market-Shifted	Number of Market-Shifted Events	Percent Net New	Number of Net New Events
Large Concert	5	60%	3	40%	2
Medium Concert	8	60%	5	40%	3
Small Concert	10	60%	6	40%	4
Family Show	20	70%	14	30%	6
Other Sporting or Entertainment Event	35	50%	18	50%	17
Total Major Third-Party Events	78	59%	46	41%	32
Corporate or Community Event	100	80%	80	20%	20
Plaza Event	16	59%	9	41%	7

The refined Table 6, below, presents the operational emissions associated with the existing market-shifted events in the baseline.

Table 6. Market-Shifted Events

Emissions Source	Operational Emissions (MT CO <sub>2</sub> e)
Mobile	2,630
Energy	1,503
Waste	114
Water and Wastewater	497
<b>Total</b>	<b>4,744</b>

Notes: Totals may not add due to rounding.

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

Source: Modeled by AECOM in 2019

The refined Table 7, below, presents the total baseline operational emissions estimates with the updates described above.

Table 7. Baseline Emissions Summary

Emissions Source	Proposed IBEC Project	Variants
Area	<0.1	1.35
Energy	2,828	2,836
Mobile	9,130	9,177
Waste	282	283
Water and Wastewater	1,050	1,051
<b>Total</b>	<b>13,289</b>	<b>13,349</b>

Notes: Totals may not add due to rounding.

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

Source: Modeled by AECOM in 2019

As shown in Table 7, the overall existing baseline emissions would be approximately 13,289 metric tons of carbon dioxide equivalent (MT CO<sub>2</sub>e) for the IBEC Project and 13,349 for the IBEC Project Variants.

Further, as explained previously, emissions associated with the potential reuse of the existing LA Clippers Team Offices and use of the LA Clippers vacated event days after the LA Clippers relocate to the IBEC site are treated as indirect emissions associated with the IBEC Project. Table 7a presents the indirect emissions with these uses year by year.

Table 7a. IBEC Project Indirect Emissions

Emissions Year	IBEC Project Indirect Emissions Re-Use of Team Offices and Vacated NBA Events (MT CO <sub>2</sub> e)
2024 <sup>a</sup>	463
2025	898
2026	872
2027	847
2028	824
2029	802
2030	781
2031	761
2032	742
2033	723
2034	705
2035	688
2036	671
2037	655
2038	639
2039	624
2040	609
2041	594
2042	580
2043	566
2044	552
2045	538
2046	537
2047	537
2048	537
2049	537
2050	536
2051	536
2052	536
2053	536
2054	536
<b>Total</b>	<b>19,960</b>

Notes:

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

<sup>a</sup> IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, backfill emissions for 2024 only include half of the annual operational emissions associated with the potential reuse of the existing Team Offices and vacated event nights.

**IBEC Project Operations**

As presented in the submitted application, operational emissions associated with the IBEC Project and IBEC Project Variants include emissions from energy (electricity and natural gas), on-road motor vehicles (mobile), solid waste, water and wastewater, and area sources. Given recent information and updated technical analyses, the following emissions sources were refined. For reference, the following subsections state the corresponding pages in the submitted application.

**Mobile Sources (Attachment G, Page 18)**

Mobile source emissions associated with the IBEC Project are based on a project-specific trip generation analysis. As described in more detail in Attachment 2, IBEC Trip Generation Supplemental Technical Memorandum, trip generation rates were refined to reflect more recent survey data and changed conditions. For example, updates to the trip generation analysis included adjustments to

mode splits for attendees and employees to assume less transit and charter bus use considering the availability of additional off-site parking near the IBEC Project. Additionally, the trip generation analysis for the trips at the LA Clippers Team Offices was updated to utilize the Institute of Transportation Engineers (ITE) land use code for Corporate Headquarters. The trip generation analysis also was updated to use the correct ITE trip generation rate for the sports medicine clinic. Further, the GHG analysis has been revised to utilize the maximum, rather than average, number of attendees across all event types to provide a conservative estimate of operational emissions. This supplemental analysis utilizes the maximum attendance numbers as follows:

Event Type	Maximum Number of Attendees
LA Clippers Pre-Season Home Games	18,000
LA Clippers Regular Home Games	18,000
LA Clippers Post-Season Home Games	18,000
Large Concert	18,500
Medium Concert	14,500
Small Concert	9,500
Family Show	8,500
Other Sporting or Entertainment Event	7,500
Corporate or Community Event	2,000
Plaza Event	4,000

Energy (Attachment G, Page 17)

Operational GHG emissions associated with the use of energy in the IBEC Project AB 987 Application were based on projected energy demand at the IBEC Project based on average estimates of attendance. In order to account for the maximum attendance scenario, the projected energy demand has been adjusted in this refined supplemental analysis to an increased estimate of 54 kilo-British thermal units per square foot for components of the IBEC Project expected to experience increased levels of activity assuming maximum event attendance. In addition, the GHG intensity value for Southern California Edison (SCE) in CalEEMod has been updated to reflect recent, publicly available information for projected SCE GHG intensity values for future operational years, consistent with Renewables Portfolio Standard mandates.

Water and Wastewater (Attachment G, Page 19)

Operational GHG emissions associated with the use of energy to supply, distribute, and treat water and wastewater have been updated based on recently available, project-specific data. Water demands in the IBEC Project AB 987 Application were based on projected water use at the IBEC Project based on demand estimates for similar projects and CalEEMod defaults, estimated to be approximately 44 million gallons for indoor water use and 16 million gallons for outdoor water use, absent application of the IBEC Project design features to reduce water demand. Since the January 2019 submittal, Stetson Engineers, Inc. prepared a water demand study for the IBEC Project that includes project-specific data and water demands – both with Leadership in Energy and Environmental Design (LEED) Gold features and without LEED Gold features. (**Exhibit 3**). The project-specific water demand is approximately 22.6 million gallons and 4.8 million gallons of indoor and outdoor water usage, respectively. It is anticipated that the IBEC Project’s LEED design features will result in an indoor and outdoor water demand reduction of 41 percent and 51 percent, respectively (Stetson 2019).

**IBEC Project Operational Emissions Results**

Annual operational emissions have been updated, as discussed above. Emissions sources and estimates in Attachment G that are not mentioned above have not been refined or updated. The refined Table 8 below presents the emissions associated with operation of the IBEC Project and IBEC Project Variants with and without GHG Reduction Measures for the first year of operation. The emissions presented in the table below represent the total emissions if the IBEC Project were operational for the entirety of 2024. However, the first day of operation of the IBEC Project is anticipated to be July 1, 2024. As noted in Attachment G to the IBEC Project AB 987 Application, for the calculation of total net new emissions for the life of the IBEC Project, emissions for 2024 are reduced by 50 percent to estimate the emissions for the actual operations of the IBEC Project for that year. Tables 10 through 13 below show the the operations of the IBEC Project over the project lifetime. Updated appendix materials are included in Appendix A.

Table 8. IBEC Project Operational GHG Emissions – 2024

<b>Emissions Source</b>	<b>Operational Emissions without GHG Reduction Measures (MT CO<sub>2</sub>e)</b>	<b>Operational Emissions with Local Direct GHG Reduction Measures <sup>1</sup> (MT CO<sub>2</sub>e)</b>	<b>Operational Emissions with All GHG Reduction Measures <sup>2</sup> (MT CO<sub>2</sub>e)</b>
Area	0.1	0.1	0.1
Energy	5,679	5,472	5,265
Mobile	16,883	13,643	13,643
Stationary	87	87	87
Waste	1,207	1,207	1,207
Water and Wastewater	136	110	84
<b>Total Operational Emissions</b>	<b>23,992</b>	<b>20,520</b>	<b>20,287</b>

Notes: Totals may not add due to rounding.

<sup>1</sup> Includes reductions associated with implementation of the TDM Program and 50% of the reductions achieved through LEED Gold.

<sup>2</sup> Includes reductions associated with implementation of the TDM Program and 100% of the reductions achieved through LEED Gold.

GHG = greenhouse gas

LEED = Leadership in Energy and Environmental Design

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent

PDF = project design features

TDM = Transportation Demand Management

Source: Modeled by AECOM in 2019

**IBEC Project Construction**

Due to recent refinements in the project parking configuration, construction emissions associated with the IBEC Project were also revised. Attachment G to the IBEC Project AB 987 Application included emissions for construction of two parking structures and one surface parking lot. The design now includes construction of a third parking structure instead of the surface parking lot, which would provide two additional levels of parking. As such, the construction emissions in this supplemental analysis were revised to account for the minor changes in parking spaces and the additional concrete deliveries during construction of the third parking structure and other construction activities associated with the additional parking structure. The refined Table 9 below presents the construction-related GHG emissions for the IBEC Project and IBEC Project Variants.



Table 9. Construction-Related GHG Emissions

Construction Year	IBEC Project GHG Emissions (MT CO <sub>2</sub> e)	IBEC Project Variants GHG Emissions (MT CO <sub>2</sub> e)
2021 <sup>a</sup>	3,834	3,860
2022	8,373	8,373
2023	7,437	7,437
2024 <sup>b</sup>	1,188	1,188
<b>Total</b>	<b>20,833</b>	<b>20,859</b>

Notes: Totals may not add due to rounding.

GHG = greenhouse gas

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

<sup>a</sup> Construction in 2021 is anticipated to only occur July through December.

<sup>b</sup> Construction in 2024 is anticipated to only occur January through June.

Source: Modeled by AECOM in 2019

### Emission Results

As discussed above, this supplemental refined analysis includes updates to baseline emission estimates and methodology, indirect emissions from backfill of the existing LA Clippers team office space and events during vacated LA Clippers event days at the Staples Center, IBEC Project water, mobile, and energy source emission estimates, and updates to construction-related estimates. The following tables present the net GHG emissions by year for the IBEC Project and IBEC Project Variants.

#### IBEC Project Emission Results

The refined Table 10 shows the adjusted change in GHG emissions by year for the IBEC Project between 2021 and 2054 without GHG Reduction Measures. The refined Table 11 shows the net change in emissions with the GHG Reduction Measures.

As shown in refined Table 11, the emissions generated by the IBEC Project when considering the Transportation Demand Management (TDM) Program and project design features, would result in a net increase of 76,324 MT CO<sub>2</sub>e in emissions when compared to the baseline.

Table 10. IBEC Project - Net GHG Emissions by Year without GHG Reduction Measures

Emissions Year	IBEC Project (MT CO <sub>2</sub> e)	Baseline Emissions (MT CO <sub>2</sub> e)	Net Emissions IBEC Project (MT CO <sub>2</sub> e)
2021 <sup>a,b</sup>	3,834	1,209	2,625
2022 <sup>a,b</sup>	8,373	1,209	7,164
2023 <sup>a,b</sup>	7,437	1,209	6,228
2024 <sup>c</sup>	13,647	7,249	6,398
2025	24,141	13,289	10,852
2026	23,466	13,289	10,177
2027	22,861	13,289	9,572
2028	22,316	13,289	9,027
2029	21,822	13,289	8,533
2030	21,373	13,289	8,084
2031	20,795	13,289	7,505
2032	20,222	13,289	6,933
2033	19,684	13,289	6,395
2034	19,178	13,289	5,889
2035	18,702	13,289	5,413
2036	18,254	13,289	4,965
2037	17,831	13,289	4,542
2038	17,431	13,289	4,142
2039	17,049	13,289	3,760
2040	16,684	13,289	3,395
2041	16,333	13,289	3,044
2042	15,994	13,289	2,704
2043	15,663	13,289	2,374
2044	15,340	13,289	2,051
2045	15,023	13,289	1,733
2046	15,004	13,289	1,715
2047	14,989	13,289	1,700
2048	14,977	13,289	1,688
2049	14,967	13,289	1,678
2050	14,959	13,289	1,669
2051	14,959	13,289	1,669
2052	14,959	13,289	1,669
2053	14,959	13,289	1,669
2054	14,959	13,289	1,669
<b>Total</b>	<b>568,187</b>	<b>409,556</b>	<b>158,631</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.

GHG = greenhouse gas

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent

Source: Modeled by AECOM in 2019

Table 11. IBEC Project - Net GHG Emissions by Year with GHG Reduction Measures

Emissions Year	IBEC Project (MT CO <sub>2</sub> e)	Baseline Emissions (MT CO <sub>2</sub> e)	Net Emissions IBEC Project (MT CO <sub>2</sub> e)
2021 <sup>a,b</sup>	3,834	1,209	2,625
2022 <sup>a,b</sup>	8,373	1,209	7,164
2023 <sup>a,b</sup>	7,437	1,209	6,228
2024 <sup>c</sup>	11,795	7,249	4,545
2025	20,575	13,289	7,286
2026	20,020	13,289	6,731
2027	19,522	13,289	6,232
2028	19,071	13,289	5,782
2029	18,661	13,289	5,372
2030	18,288	13,289	4,998
2031	17,787	13,289	4,498
2032	17,291	13,289	4,001
2033	16,823	13,289	3,533
2034	16,380	13,289	3,091
2035	15,961	13,289	2,672
2036	15,566	13,289	2,276
2037	15,190	13,289	1,901
2038	14,833	13,289	1,544
2039	14,514	13,289	1,225
2040	14,181	13,289	892
2041	13,862	13,289	573
2042	13,551	13,289	262
2043	13,248	13,289	-41
2044	12,951	13,289	-338
2045	12,658	13,289	-631
2046	12,642	13,289	-647
2047	12,629	13,289	-660
2048	12,618	13,289	-671
2049	12,609	13,289	-680
2050	12,602	13,289	-688
2051	12,602	13,289	-688
2052	12,602	13,289	-688
2053	12,602	13,289	-688
2054	12,602	13,289	-688
<b>Total</b>	<b>485,880</b>	<b>409,556</b>	<b>76,324</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.

GHG = greenhouse gas

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent

Source: Modeled by AECOM in 2019

**IBEC Project Variants Emission Results**

The refined Table 12 shows the adjusted change in GHG emissions by year for the IBEC Project Variants between 2021 and 2054 without GHG Reduction Measures. The refined Table 13 shows the adjusted net change in emissions for the IBEC Project Variants with the GHG Reduction Measures.

Table 12. IBEC Project Variants - Net GHG Emissions by Year without GHG Reduction Measures

Emissions Year	Variants (MT CO <sub>2</sub> e)	Baseline Emissions (MT CO <sub>2</sub> e)	Net Emissions IBEC Project (MT CO <sub>2</sub> e)
2021 <sup>a,b</sup>	3,860	1,269	2,591
2022 <sup>a,b</sup>	8,373	1,269	7,105
2023 <sup>a,b</sup>	7,437	1,269	6,168
2024 <sup>c</sup>	13,647	7,309	6,339
2025	24,141	13,349	10,793
2026	23,466	13,349	10,118
2027	22,861	13,349	9,513
2028	22,316	13,349	8,968
2029	21,822	13,349	8,474
2030	21,373	13,349	8,025
2031	20,795	13,349	7,446
2032	20,222	13,349	6,873
2033	19,684	13,349	6,336
2034	19,178	13,349	5,830
2035	18,702	13,349	5,354
2036	18,254	13,349	4,905
2037	17,831	13,349	4,483
2038	17,431	13,349	4,082
2039	17,049	13,349	3,701
2040	16,684	13,349	3,335
2041	16,333	13,349	2,985
2042	15,994	13,349	2,645
2043	15,663	13,349	2,315
2044	15,340	13,349	1,992
2045	15,023	13,349	1,674
2046	15,004	13,349	1,655
2047	14,989	13,349	1,641
2048	14,977	13,349	1,629
2049	14,967	13,349	1,619
2050	14,959	13,349	1,610
2051	14,959	13,349	1,610
2052	14,959	13,349	1,610
2053	14,959	13,349	1,610
2054	14,959	13,349	1,610
<b>Total</b>	<b>568,213</b>	<b>411,570</b>	<b>156,643</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.

GHG = greenhouse gas

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent

Source: Modeled by AECOM in 2019

Table 13. IBEC Project Variants - Net GHG Emissions by Year with GHG Reduction Measures

Emissions Year	Variants (MT CO <sub>2</sub> e)	Baseline Emissions (MT CO <sub>2</sub> e)	Net Emissions IBEC Project (MT CO <sub>2</sub> e)
2021 <sup>a,b</sup>	3,860	1,269	2,591
2022 <sup>a,b</sup>	8,373	1,269	7,105
2023 <sup>a,b</sup>	7,437	1,269	6,168
2024 <sup>c</sup>	11,795	7,309	4,486
2025	20,575	13,349	7,227
2026	20,020	13,349	6,672
2027	19,522	13,349	6,173
2028	19,071	13,349	5,723
2029	18,661	13,349	5,313
2030	18,288	13,349	4,939
2031	17,787	13,349	4,438
2032	17,291	13,349	3,942
2033	16,823	13,349	3,474
2034	16,380	13,349	3,031
2035	15,961	13,349	2,613
2036	15,566	13,349	2,217
2037	15,190	13,349	1,842
2038	14,833	13,349	1,484
2039	14,514	13,349	1,165
2040	14,181	13,349	833
2041	13,862	13,349	514
2042	13,551	13,349	203
2043	13,248	13,349	-100
2044	12,951	13,349	-397
2045	12,658	13,349	-690
2046	12,642	13,349	-707
2047	12,629	13,349	-719
2048	12,618	13,349	-730
2049	12,609	13,349	-739
2050	12,602	13,349	-747
2051	12,602	13,349	-747
2052	12,602	13,349	-747
2053	12,602	13,349	-747
2054	12,602	13,349	-747
<b>Total</b>	<b>485,906</b>	<b>411,570</b>	<b>74,335</b>

Notes:

Total may not add due to rounding.

<sup>a</sup> Project emission estimates for 2021 through 2023 include only construction-related emissions.

<sup>b</sup> Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.

<sup>c</sup> IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events .

GHG = greenhouse gas

IBEC = Inglewood Basketball and Event Center

MT CO<sub>2</sub>e = metric tons of carbon dioxide equivalent

Source: Modeled by AECOM in 2019

As shown in refined Table 13, the emissions generated by the IBEC Project Variants with the GHG Reduction Measures would result in a net increase of 74,335 MT CO<sub>2</sub>e in emissions when compared to the baseline.

#### Net New Project Emissions and AB 987 Requirements

As shown above in refined Tables 10 and 12, the IBEC Project and IBEC Project Variants would result in net new GHG emissions of approximately 158,631 MT CO<sub>2</sub>e and approximately 156,643 MT CO<sub>2</sub>e, respectively, absent implementation of GHG Reduction Measures.

The refined Tables 14 and 15 below show the net new emissions produced by the IBEC Project and the IBEC Project Variants without GHG Reduction Measures (i.e., without implementation of the IBEC TDM Program or any of the project design features and measures used as part of the LEED Gold strategy), the net new emissions produced by the IBEC Project and IBEC Project Variants after applying the reductions resulting from implementation of the local, direct GHG Reduction Measures (i.e., with implementation of the IBEC TDM Program and 50 percent of the project design features and measures used as part of the LEED Gold strategy), and the net new emissions produced by the IBEC Project and IBEC Project Variants after application of all GHG Reduction Measures (i.e., with implementation of the IBEC TDM Program and all of the project design features and measures used as part of the LEED Gold certification strategy).

**IBEC Project Net New Emissions**

Table 14. IBEC Project Net New Emissions Summary

<b>Emissions Year</b>	<b>IBEC Project without GHG Reduction Measures (No TDM or PDFs)</b>	<b>IBEC Project with Local, Direct GHG Reduction Measures (TDM and 50% PDFs)</b>	<b>IBEC Project with GHG Reduction Measures (TDM and 100% PDFs)</b>
2021	2,625	2,625	2,625
2022	7,164	7,164	7,164
2023	6,228	6,228	6,228
2024	6,398	4,662	4,545
2025	10,852	7,516	7,286
2026	10,177	6,958	6,731
2027	9,572	6,456	6,232
2028	9,027	6,002	5,782
2029	8,533	5,589	5,372
2030	8,084	5,213	4,998
2031	7,505	4,701	4,498
2032	6,933	4,193	4,001
2033	6,395	3,714	3,533
2034	5,889	3,260	3,091
2035	5,413	2,831	2,672
2036	4,965	2,424	2,276
2037	4,542	2,037	1,901
2038	4,142	1,669	1,544
2039	3,760	1,339	1,225
2040	3,395	995	892
2041	3,044	665	573
2042	2,704	343	262
2043	2,374	29	-41
2044	2,051	-279	-338
2045	1,733	-584	-631
2046	1,715	-600	-647
2047	1,700	-613	-660
2048	1,688	-623	-671
2049	1,678	-632	-680
2050	1,669	-640	-688
2051	1,669	-640	-688
2052	1,669	-640	-688
2053	1,669	-640	-688
2054	1,669	-640	-688
<b>Total</b>	<b>158,631</b>	<b>80,079</b>	<b>76,324</b>

Notes:

- GHG = greenhouse gas
- LEED = Leadership in Energy and Environmental Design
- PDF = project design features
- TDM = Transportation Demand Management

As shown in the refined Table 14, the emissions generated by the IBEC Project with implementation of the GHG Reduction Measures, would result in a net increase of 76,324 MT CO<sub>2</sub>e in emissions when compared to the baseline.



**IBEC Project Variants Net New Emissions**

Table 15. IBEC Project Variants Project Net New Emissions Summary

<b>Emissions Year</b>	<b>IBEC Project Without GHG Reduction Measures (No TDM or PDFs)</b>	<b>IBEC Project With Local, Direct GHG Reduction Measures (TDM and 50% PDFs)</b>	<b>Project With GHG Reduction Measures (TDM and 100% PDFs)</b>
2021	2,591	2,591	2,591
2022	7,105	7,105	7,105
2023	6,168	6,168	6,168
2024	6,339	4,602	4,486
2025	10,793	7,456	7,227
2026	10,118	6,898	6,672
2027	9,513	6,396	6,173
2028	8,968	5,943	5,723
2029	8,474	5,530	5,313
2030	8,025	5,153	4,939
2031	7,446	4,641	4,438
2032	6,873	4,134	3,942
2033	6,336	3,655	3,474
2034	5,830	3,201	3,031
2035	5,354	2,772	2,613
2036	4,905	2,365	2,217
2037	4,483	1,978	1,842
2038	4,082	1,610	1,484
2039	3,701	1,280	1,165
2040	3,335	936	833
2041	2,985	605	514
2042	2,645	284	203
2043	2,315	-30	-100
2044	1,992	-339	-397
2045	1,674	-643	-690
2046	1,655	-659	-707
2047	1,641	-672	-719
2048	1,629	-683	-730
2049	1,619	-692	-739
2050	1,610	-699	-747
2051	1,610	-699	-747
2052	1,610	-699	-747
2053	1,610	-699	-747
2054	1,610	-699	-747
<b>Total</b>	<b>156,643</b>	<b>78,090</b>	<b>74,335</b>

Notes:  
 GHG = greenhouse gas  
 LEED = Leadership in Energy and Environmental Design  
 PDF = project design features  
 TDM = Transportation Demand Management

As shown in refined Table 15, the emissions generated by the IBEC Project Variants with implementation of the GHG Reduction Measures would result in a net increase of 74,335 MT CO<sub>2</sub>e in emissions when compared to the baseline.

**AB 987 Summary of Reductions**

AB 987 requires that not less than 50 percent of the net new GHG emissions produced by the IBEC Project without GHG Reduction Measures must be reduced by local, direct measures, including the reductions in emissions resulting from implementation of the IBEC TDM Program and 50% of the

reductions resulting from the LEED Gold strategy. The refined Tables 16 and 17 identify the reductions that would be achieved through these local, direct measures and the remaining GHG emission reductions required that would need to be achieved through the additional 50% of LEED Gold measures, purchase of offset credits, and/or co-benefits from emission reduction measures for nitrogen oxides (NO<sub>x</sub>) and particulate matter with aerodynamic diameter less than 2.5 microns (PM<sub>2.5</sub>).

Table 16. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary

<b>IBEC Project Condition and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Net New Emissions</b>
Total Net New Emissions IBEC Project Without GHG Reduction Measures	158,631	100%
Required GHG Reductions from Local, Direct Measures	79,316	50%
Total Emissions Reductions from LEED Gold	7,510	5%
50% of Total Emission Reductions from LEED Gold Qualifying as Local Direct Measures	3,755	2%
Total Reductions from IBEC TDM Program	74,797	47%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	78,552	49.5%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	82,307	52%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NO <sub>x</sub> and PM <sub>2.5</sub> Reduction Measures	76,324	48%
<b>Total Net New Emissions</b>	<b>0</b>	<b>0%</b>

Notes: Totals may not add due to rounding.

- GHG = greenhouse gas
- LEED = Leadership in Energy and Environmental Design
- MT CO<sub>2</sub>e = metric tons carbon dioxide equivalents
- NO<sub>x</sub> = nitrogen oxides
- PDF = project design features
- PM<sub>2.5</sub> = particulate matter with aerodynamic diameter less than 2.5 microns
- TDM = Transportation Demand Management

Table 17. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary

<b>Project Condition and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Net New Emissions</b>
Total Net New Emissions IBEC Project Variants Without GHG Reduction Measures	156,643	100%
Required GHG Reductions from Local, Direct Measures	78,321	50%
Total Emissions Reductions from LEED Gold	7,510	5%
50% of Total Emission Reductions from LEED Gold Qualifying as Local Direct Measures	3,755	2%
Total Reductions from IBEC TDM Program	74,797	48%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	78,552	50.1%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	82,307	53%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NO <sub>x</sub> and PM <sub>2.5</sub> Reduction Measures	74,335	47%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding.

- GHG = greenhouse gas
- LEED = Leadership in Energy and Environmental Design
- MT CO<sub>2</sub>e = metric tons carbon dioxide equivalents
- NO<sub>x</sub> = nitrogen oxides
- PDF = project design features
- PM<sub>2.5</sub> = particulate matter with aerodynamic diameter less than 2.5 microns
- TDM = Transportation Demand Management

As shown in refined Table 16, with implementation of the IBEC TDM Program and 50% of the GHG emissions reductions resulting from the LEED Gold strategy, the IBEC Project would be just under the AB 987 requirement that no less than 50 percent of the net new emissions need to be offset by local, direct measures. As shown in Table 17, the IBEC Project Variant would meet the AB 987 requirement that no less than 50 percent of net new emissions need to be offset by local, direct measures. Therefore, the following section discusses potential options that could be implemented by the IBEC Project to meet the AB 987 requirement that no less than 50 percent of the net new emissions need to be offset by local, direct measures.

**Additional Local, Direct Measures**

As shown in Table 16, the IBEC Project would need to implement additional local, direct measures to reduce emissions of approximately 764 MT CO<sub>2</sub>e of GHGs over the project lifetime to meet the AB 987 requirement that no less than 50 percent of net new GHG emissions need to be offset by local, direct measures. The IBEC Project will include one or more additional local, direct measures to meet this requirement, potentially including, but not limited to:

**Additional Renewable Energy Production via Photovoltaic Systems on Carports**

The IBEC Project may install additional photovoltaic systems as carports on the additional third parking structure. It is estimated that an additional 500-kilowatt PV system would generate up to an additional 850,000 kilowatt-hours of clean energy and achieve up to 2,440 MT CO<sub>2</sub>e of GHG emissions reductions over the project lifetime.

## Southern California Edison (SCE) Green Rate

The SCE Green Rate allows electricity customers to purchase renewable energy for their onsite energy consumption. To support this effort, SCE purchases renewable energy to meet the needs of Green Rate participants from solar renewable developers within the SCE service territory. Under the SCE Green Rate program, customers may select from two levels of participation, either to meet 50 or 100 percent of electricity usage from solar energy sources. It is estimated that the 100 percent participation level would achieve up to 52,889 MT CO<sub>2</sub>e of GHG emissions reductions over the project lifetime. This reduction strategy would not be part of the LEED process and as such, it would not be subject to the limit of 50% of the LEED Gold certification as a part of the AB 987 local, direct reduction requirement.

## Renewable Natural Gas

Another option for meeting the project's required level of GHG emissions reductions from local, direct measures relates to utilizing the proposed Southern California Gas Company renewable gas program that is currently in a review and approval process at the California Energy Commission. If the program is approved, customers served by Southern California Gas Company would be able to specify that a portion or all of their natural gas would come from renewable sources. Renewable natural gas comes from existing waste streams and a variety of biomass sources. If the renewable natural gas comes from sources that would otherwise decay and create methane emissions, this has a direct GHG emissions reduction benefit. The lifecycle emissions for renewable natural gas have the potential to be lower than the emissions associated with conventional natural gas.<sup>2</sup> Assuming the renewable natural gas would be 100 percent carbon neutral and would replace all the natural gas consumption at the IBEC Project site, this measure could achieve up to 31,010 MT CO<sub>2</sub>e over the project lifetime. This reduction strategy would not be part of the LEED Gold certification process and as such, it would not be subject to the limit that no more than 50% of the project design features and measures used as part of the IBEC Project's LEED Gold strategy may be counted as local, direct reduction measures under AB 987.

Other local direct measures could include the identification and incorporation of new emissions-reducing technologies, pursuing strategies to work with local municipalities, transit providers, and others in the area to support vehicle trip or vehicle-miles traveled reductions that would in turn reduce GHG emissions, or other measures that would achieve GHG emissions reductions in the local region.

## Summary

Therefore, as required by AB 987, the IBEC Project would implement additional local, direct measures as necessary to meet the requirement that no less than 50 percent of net new emissions need to be offset by local, direct measures. Further, any remaining net new emissions after implementation of the additional local, direct measures would need to be offset by the purchase of carbon credits and/or co-benefits of NO<sub>x</sub> and PM<sub>2.5</sub> reduction measures.

## References

AECOM 2019. Attachment 2: IBEC Annual Trip Generation Supplemental Technical Memorandum. June 3, 2019

Exhibit 1: CSL 2019a. Staples Center LA Clippers Vacated Event Days Analysis. May 14, 2019.

Exhibit 2: CSL 2019b. LA Clippers Arena Incremental Event Analysis. May 16, 2019.

Exhibit 3: Stetson Engineers, Inc. 2019. IBEC Project Review of Water Demands. June 3, 2019.

<sup>2</sup> California Air Resources Board (ARB) and the California Environmental Protection Agency (EPA). 2016 (June). The Feasibility of Renewable Natural Gas as a Large-Scale, Low Carbon Substitute. Available: <https://ww3.arb.ca.gov/research/apr/past/13-307.pdf>.

**Attachment 4**

**Letter Confirming Project Labor Agreement**



**Los Angeles / Orange Counties  
Building and Construction  
Trades Council**

*Affiliated with the Building & Construction Trades Dept., AFL-CIO*

1626 Beverly Boulevard  
Los Angeles, CA 90026-5784  
Phone (213) 483-4222  
(714) 827-6791  
Fax (213) 483-4419



**RON MILLER**

*Executive Secretary*

April 4, 2019

Re: LA Clippers Arena Project Labor Agreement

To whom it may concern:

This is to confirm that the Los Angeles/Orange County Building and Construction Trades Council, on behalf of its affiliated Local Unions and District Councils, has entered into a project labor agreement (PLA) for the construction of the LA Clippers' new NBA arena project in Inglewood. The PLA was entered into with Hunt Construction Group, the project's general contractor selected by Murphy's Bowl LLC, the project owner. The PLA covers the horizontal improvements and the vertical construction of the Inglewood Basketball and Entertainment Center Project.

If you have questions, feel free to give me a call.

Sincerely,

Ron Miller  
Executive Secretary

**Attachment 3, Exhibit 1**  
**Staples Center Vacated Event Days Analysis**



May 14, 2019

Mr. Chris Holmquist Project  
Manager  
Wilson Meany  
6701 Center Drive, Suite  
950 Los Angeles, CA 90045

**SUBJECT: STAPLES CENTER VACATED EVENT DAYS ANALYSIS**

Dear Mr. Holmquist:

Conventions, Sports & Leisure International ("CSL") has prepared an analysis related to the potential vacated event days at Staples Center due to the development of a new arena in Inglewood (the Inglewood Basketball and Entertainment Center or "IBEC") for the LA Clippers ("Clippers"). Specifically, Wilson Meany has asked CSL to quantify the number of third-party events that could occupy the available dates at Staples Center vacated by the Clippers.

CSL reviewed the Clippers home game schedule, along with those of the Los Angeles Lakers ("Lakers"), Los Angeles Kings ("Kings"), and Los Angeles Sparks ("Sparks") to understand the mix of tenant and non-tenant event activity each calendar year. Based on an analysis of event data from the 2016 to 2018 calendar years, CSL identified three key types of dates with distinct booking tendencies, including "double-booked" event days during which two tenants played on the same day, Monday-Thursday dates available for third-party events, and Friday-Sunday dates available for third-party events.

CSL has prepared an analysis that provides an overview of existing event activity at Staples Center, a summary of the number of dates that could be vacated by the Clippers, and historical third-party booking rates of available dates at Staples Center.

The analysis presented in this letter supports the following conclusions regarding available dates at Staples Center vacated by the Clippers:

- Staples Center hosts a robust level of event activity and would seek to occupy available dates vacated by the Clippers with various third-party events such as concerts, family shows, or other sporting or entertainment events.
- It is reasonable to assume that double-booked event days during which the Clippers played on the same day as another tenant would not be occupied by any other use, as only another professional sports team could accommodate a double-booked event day. Additionally, it is



reasonable to assume that the Kings or Lakers would not increase their double-booked days, as the earlier 12:30 PM start time on double-booked event days is not desirable. Further, the Lakers or Kings could seek to reduce any double-booked home game event days by occupying vacated Clippers dates.

- It is reasonable to assume that some of the Clippers-only days would be occupied by third-party events at Staples Center. Based on an analysis of historical third-party booking rates, Friday, Saturday, and Sunday dates are more desirable for major event activity and are booked at a greater rate than Monday-Thursday dates. It is reasonable to assume that Staples Center would achieve similar booking rates for any dates that become available as the Clippers relocate to IBEC.

This letter outlines the key finding related to an analysis of potential event activity and vacated event days at Staples Center. It should be read in its entirety to obtain the background, methods, and assumptions underlying the findings.

## OVERVIEW OF CLIPPERS HOME GAMES AT STAPLES CENTER

The table below presents a summary of Clippers home games played at Staples Center during the 2016 to 2018 calendar years, including the number of games played on the same day as the Lakers or the Kings, Clippers-only event days that occurred Monday-Thursday, and Clippers-only event days that took place Friday, Saturday, or Sunday.

Clippers Home Games – 2016, 2017, and 2018 Calendar Years (Preseason, Regular Season, and Postseason Games)				
	Clippers Double-Booked with NBA or NHL	Clippers-Only Monday- Thursday	Clippers-Only Friday, Saturday, Sunday	Total Clippers Home Games
2016	12	29	7	48
2017	11	27	9	47
2018	12	26	7	45
<b>Three-Year Average</b>	<b>12</b>	<b>27</b>	<b>8</b>	<b>47</b>

As shown, the Clippers played an average of 47 home games during the 2016 to 2018 calendar years. On average, 12 of those home game event days were double-booked event days during which the Clippers played on the same day as the Lakers or the Kings. Over the same three-year period, there were an average of two double-booked event days during which the Lakers and Kings played on the same day at Staples Center.

It is reasonable to assume that those double-booked event days would not be occupied by any other use, as only another professional sports team could accommodate a double-booked event day. Additionally, it is reasonable to assume that the Kings or Lakers would not increase their double-booked days, as the earlier 12:30 PM start time on double-booked event days is not desirable and could negatively impact attendance. In fact, the Lakers or Kings may seek to eliminate any double-booked home game event days by occupying vacated Clippers dates.

However, it is reasonable to assume that Staples Center would seek to occupy the Clippers-only days with third-party event activity. In order to estimate the number of third-party events that will occupy the vacated dates, it is important to analyze historical third-party booking rates of currently available dates at the Staples Center.

## OVERVIEW OF THIRD-PARTY EVENT ACTIVITY AT STAPLES CENTER

The table on the following page summarizes third-party event activity that occurred during the NBA season months of January to April and October to December throughout the 2016 to 2018 calendar years, including the number of events that took place Monday-Thursday and Friday, Saturday, or Sunday compared to the total available dates.

Third-Party Event Activity – 2016, 2017, and 2018 NBA Seasons (January-April and October-December)						
	Monday-Thursday			Friday, Saturday, Sunday		
	Third-Party Events	Total Available Dates	Third-Party Booking Rate	Third-Party Events	Total Available Dates	Third-Party Booking Rate
2016	7	46	15.2%	15	39	38.5%
2017	6	45	13.3%	12	41	29.3%
2018	10	50	20.0%	22	44	50.0%
<b>Three-Year Average</b>	<b>8</b>	<b>47</b>	<b>16.3%</b>	<b>16</b>	<b>41</b>	<b>39.5%</b>

As shown, from 2016 to 2018, Staples Center hosted a third-party event on an average of eight days of the total 47 available Monday-Thursday dates. For that three-year period, the average attendance at third-party events hosted at Staples Center was approximately 10,440 attendees per event, as reported to the trade publication Pollstar. The rate at which Staples Center hosts third-party events on available event days that occur on Monday-Thursday averaged 16.3 percent over the last three years, ranging from a low of 13.3 percent to a high of 20.0 percent. Over the same time period, Staples Center hosted a third-party event on an average of 16 days of the total 41 available Friday, Saturday, and Sunday dates. On average, Staples Center booked 39.5 percent of available Friday, Saturday, and Sunday event days with third-party event activity, ranging from a low of 29.3 percent to a high of 50.0 percent.

An evaluation of historical booking rates at Staples Center provides a baseline to estimate the number of third-party events that could reasonably occupy the available dates at Staples Center vacated by the Clippers.

**STAPLES CENTER EVENT ANALYSIS**

The following table shows the rate at which Staples Center could expect to newly occupy available event days after the Clippers relocate to IBEC that occur on Monday-Thursday and on Friday, Saturday, and Sunday based on past trends.

Staples Center Third-Party Event Analysis			
	Clippers Double-Booked with NBA or NHL	Clippers-Only Monday-Thursday	Clippers-Only Friday, Saturday, Sunday
Estimated Booking Rate	0.0%	16.3%	39.5%
Average Number of Occurrences*	12	27	8
<b>Occupied Event Assumption</b>	<b>0</b>	<b>4</b>	<b>3</b>

\* Available event days after Clippers relocation.

May 14, 2019

Page | 5

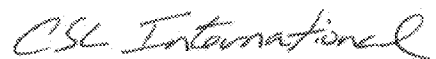
As shown, it is assumed that the 12 double-booked event days during which the Clippers played on the same day as another tenant would not be occupied by any other use. Of the approximately 27 Monday-Thursday events days that would become available at Staples Center, approximately 16.3 percent, or four, could be reasonably anticipated to be replaced with a third-party event hosted at Staples Center. Of the approximately eight Friday, Saturday, and Sunday events days that would be vacated by the Clippers, approximately 39.5 percent, or three, could be occupied with a third-party event hosted at Staples Center. Based on the information and analyses above, it is reasonably estimated that the maximum potential use of vacated Clippers event days at Staples Center could total seven event days.

\* \* \* \* \*

The information contained in this report is based on estimates, assumptions and other information developed from secondary market research, knowledge of the sports and entertainment industry, and other factors, including certain information provided by Wilson Meany and others. All information provided to us was not audited or verified and was assumed to be correct. Because procedures were limited, we express no opinion or assurances of any kind on the achievability of any projected information contained herein and this report should not be relied upon for that purpose. Furthermore, there will be differences between projected and actual results. This is because events and circumstances frequently do not occur as expected, and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report.

We sincerely appreciate the opportunity to assist you with this project and would be pleased to be of further assistance in the interpretation and application of the study's findings.

Very truly yours,



CSL International

**Attachment 3, Exhibit 2**  
**Los Angeles Incremental Event Analysis**



May 16, 2019

Mr. Chris Holmquist Project  
Manager  
Wilson Meany  
6701 Center Drive, Suite  
950 Los Angeles, CA 90045

**SUBJECT: LOS ANGELES INCREMENTAL EVENT ANALYSIS**

Dear Mr. Holmquist:

Conventions, Sports & Leisure International ("CSL") has prepared an analysis related to potential incremental third-party event activity in the Los Angeles marketplace due to the development of a new arena in Inglewood (the Inglewood Basketball and Entertainment Center or "IBEC") for the LA Clippers ("Clippers"). Specifically, Wilson Meany has asked CSL to quantify the number of third-party events anticipated to be hosted by IBEC that could be considered "net new" to the Los Angeles marketplace.

CSL reviewed historical and existing event activity at Staples Center, Honda Center, and The Forum to understand third-party event activity each calendar year. Based on an analysis of event data from the 2014 to 2018 calendar years, CSL calculated a compound annual growth rate ("CAGR") to estimate overall entertainment industry growth up to the anticipated opening year of IBEC. In addition, CSL examined the overall impact of The Forum reopening in 2014 on total third-party event activity in the marketplace.

CSL has prepared an analysis that incorporates IBEC utilization projections, an overview of existing event activity in Los Angeles, an evaluation of the impact of the renovation of The Forum on event activity in the marketplace, and feedback from event promoters in the local and regional area.

The analysis presented in this letter supports the following conclusions regarding third-party events at IBEC:

- The market for live entertainment events in North America generally, and in the Los Angeles area specifically, has experienced significant growth in the recent past, and additional growth in the annual number of live entertainment events can reasonably be expected to continue in the future regardless of the development of IBEC.

May 16, 2019

Page | 2

- It is reasonable to assume that the construction of IBEC can be expected to contribute to both growth and competition in the market, bringing in new, additional events as well as hosting events that might otherwise occur at existing venues.
- Based on IBEC utilization projections, an analysis of historical data, and feedback from event promoters, it is reasonably estimated that the portion of third-party events anticipated to be hosted by IBEC that could be considered net new to the market could total 41 percent (32 of 78 events).

This letter outlines the key findings related to an analysis of potential incremental third-party event activity due to the construction of IBEC. It should be read in its entirety to obtain the background, methods, and assumptions underlying the findings.

**OVERVIEW OF PROJECTED ARENA UTILIZATION**

CSL developed event and attendance projections for IBEC. The table below presents a summary of estimated events and turnstile attendance (actual attendance) activity that is anticipated to be hosted at the new facility.

<b>Overview of Projected IBEC Utilization</b>					
<b>Event Type</b>	<b># Events</b>	<b>Average Attendance</b>		<b>Total Attendance</b>	
		<b>Turnstile Attendance</b>	<b>Maximum Attendance</b>	<b>Turnstile Attendance</b>	<b>Maximum Attendance</b>
<b><i>LA Clippers Games:</i></b>					
Exhibition	3	12,000	18,000	36,000	54,000
Regular Season	41	16,000	18,000	656,000	738,000
<b>Total</b>	<b>44</b>	<b>15,727</b>	<b>18,000</b>	<b>692,000</b>	<b>792,000</b>
<b><i>Third-Party Events:</i></b>					
Concerts - Tier 1	5	15,000	18,500	75,000	92,500
Concerts - Tier 2	8	12,000	14,500	96,000	116,000
Concerts - Tier 3	10	7,000	9,500	70,000	95,000
Family Shows	20	6,000	8,500	120,000	170,000
Other Events	35	5,000	7,500	175,000	262,500
<b>Total</b>	<b>78</b>	<b>6,872</b>	<b>9,436</b>	<b>536,000</b>	<b>736,000</b>
<b>Total</b>	<b>122</b>	<b>10,066</b>	<b>12,525</b>	<b>1,228,000</b>	<b>1,528,000</b>

Note: The analysis assumes three Clippers exhibition games annually, with a potential maximum of five per season.

Note: The analysis does not include Clippers playoff games.

Market demand, including estimated event activity and turnstile attendance, is projected through analyzing current event and attendance figures among modern NBA arenas in comparable markets and projecting potential event and attendance numbers using industry trends, historical data, and other factors. As shown, it is estimated that the Clippers will host a total of 44 home games that are expected to draw an average turnstile attendance of 15,727 per game. Turnstile attendance for Clippers home games is expected to total 692,000 per year and could potentially rise to a total of 792,000 attendees at full capacity over its 44-game home schedule.



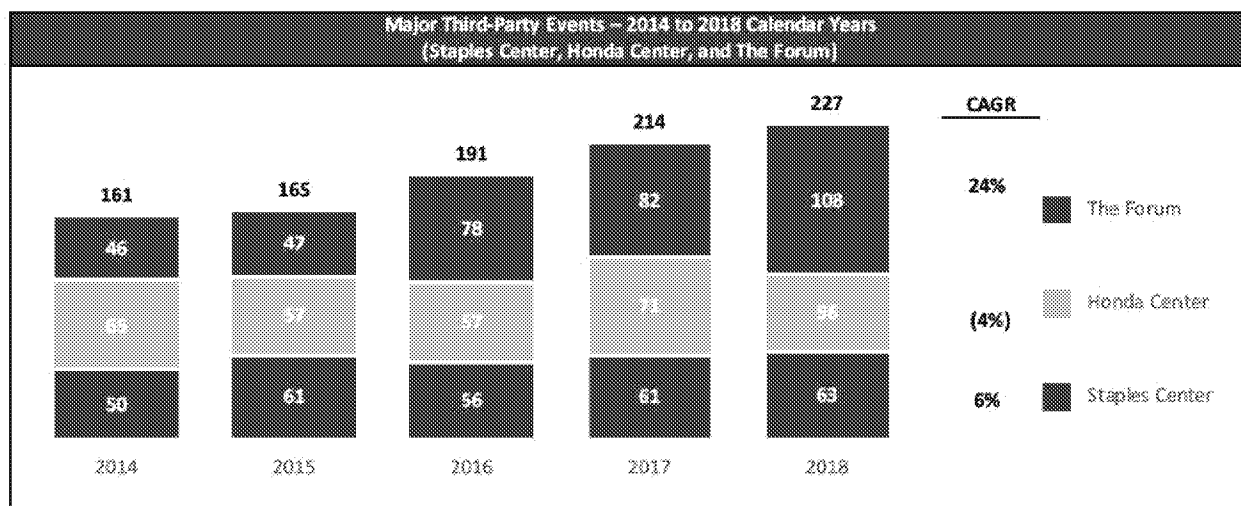
In addition to Clippers home games, it is estimated that IBEC will host a total of 78 major third-party events, consisting of 23 concerts, 20 family shows, and 35 other events (collectively, "Major Third-Party Events"). It should be noted that the other events category could include, but is not limited to, comedy and other entertainment/performance shows, sporting events (i.e. basketball, hockey, etc.), motorsports, rodeo, political/religious gatherings, and other such events. Average turnstile attendance at Major Third-Party Events is estimated to range from a low of 5,000 at other events to a high of 15,000 at Tier 1 concerts, based on observation and knowledge of typical event characteristics. Major Third-Party Event turnstile attendance is estimated to total approximately 1.2 million but could be as high as approximately 1.5 million under a maximum attendee scenario.

It is also projected that IBEC will host up to 100 corporate or community events, with a projected 200 to 1,000 attendees per event. Examples of these corporate or community events include small conventions or conferences, cultural events, and civic private events such as fundraisers, award ceremonies, or other gatherings that could be hosted on the arena floor or in club, locker room, and concourse spaces throughout the arena. These events are expected to generate a total of 30,000 to 200,000 attendees per year.

### OVERVIEW OF LOS ANGELES AREA THIRD-PARTY EVENT ACTIVITY

In order to estimate the portion of the anticipated event activity at IBEC that would represent new Major Third-Party Events in the Los Angeles market, it is important to understand existing utilization levels at arenas located throughout the Los Angeles area that host similar events. For purposes of this analysis, arenas in the Los Angeles market subject to further comparative analysis include Staples Center, The Forum, and Honda Center.

The chart below summarizes Major Third-Party Event activity that occurred in Los Angeles between the 2014 to 2018 calendar years.



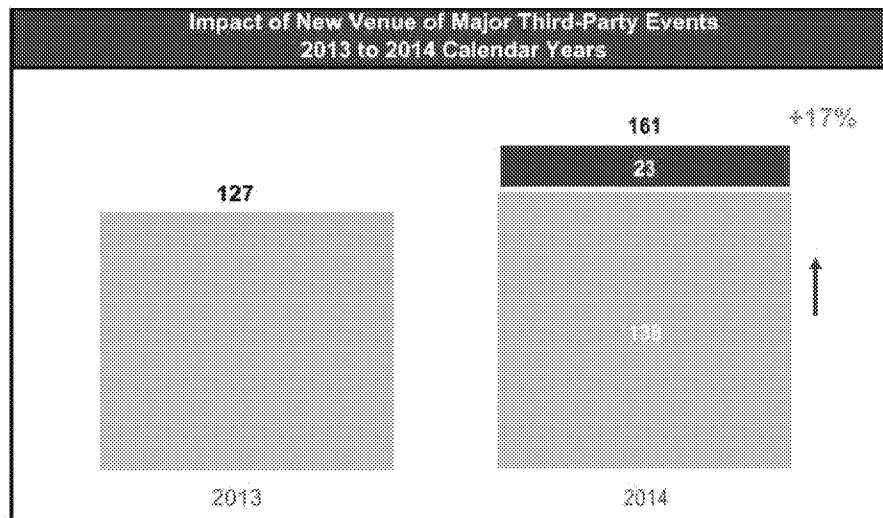
Source: Pollstar; Arena websites.

As shown, from 2014 to 2018, Major Third-Party Event activity in Los Angeles has ranged from a low of 161 in 2014 to a high of 227 during the most recent calendar year, with the number of events steadily increasing over the past five years. A majority of the growth has occurred at The Forum which has gone from hosting 46 events in 2014 to 108 events in 2018, achieving a CAGR of 24 percent. It is reasonable to assume that this rapid growth will stabilize over time as The Forum reaches mature operations. Over the same period of time, the combined event activity at Staples Center and Honda Center has remained relatively stable, growing at a combined CAGR of one percent from 2014 to 2018. It should be noted that Ringling Bros. and Barnum & Bailey Circus has been excluded from this analysis due to being discontinued following 2016 and the desire to analyze only event activity that could occur in the future.

An evaluation of historical event growth at Los Angeles area arenas provides a baseline to estimate overall entertainment industry growth up to the anticipated opening year of IBEC.

### IMPACT OF NEW VENUE ON MAJOR THIRD-PARTY EVENT ACTIVITY

The impact of The Forum reopening after its renovation in 2014 can serve as a practical benchmark to estimate the effect of IBEC on Major Third-Party Event activity in the Los Angeles Market. The chart below shows the rate at which third-party event activity grew in Los Angeles following the reintroduction of The Forum.



Source: Pollstar Arena websites

As shown, the number of events increased from 127 in Los Angeles in 2013 to 161 events in 2014. Specifically, the number of Major Third-Party Events at Staples Center decreased by 21, while the number of events at Honda Center increased by nine.

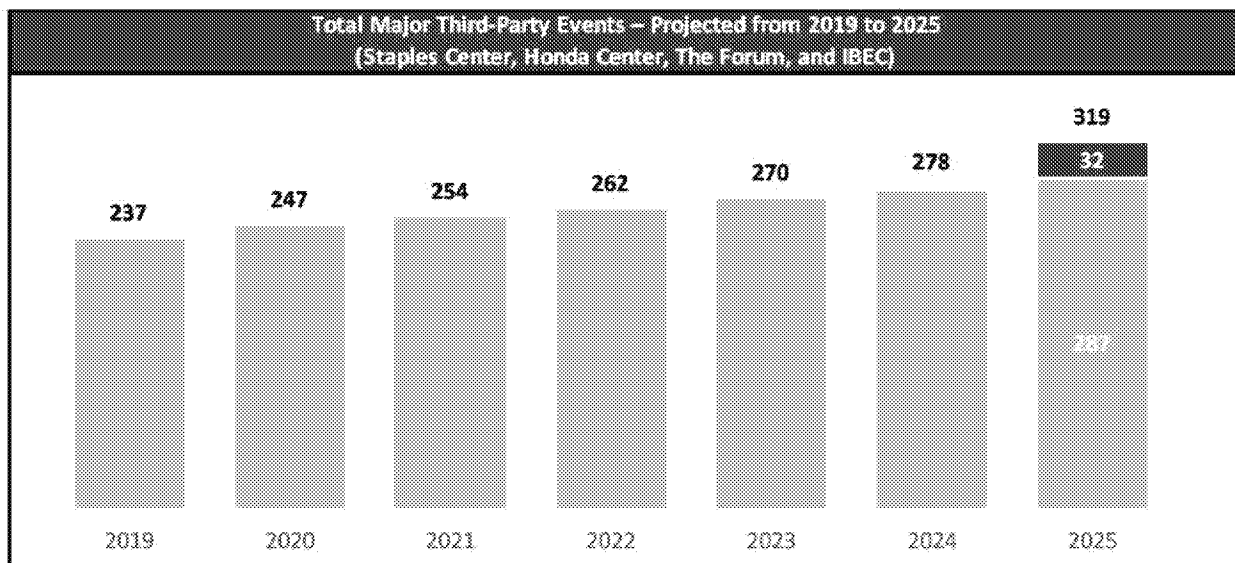
In its first year of operations, The Forum hosted 46 Major-Third Party Events. Based on industry trends, the overall growth in the entertainment industry, and historical event activity, it is reasonable to assume that

absent the redevelopment of The Forum, Staples Center and Honda Center could have grown third-party event activity in Los Angeles to 138 events (based on a CAGR of approximately eight percent from 2010 to 2013). The 17 percent incremental growth in the marketplace resulting in 23 additional events in 2014 could be considered attributable to The Forum and new to Los Angeles.

It is reasonable to assume that the construction of IBEC can be expected to contribute to both growth and competition in the market for Major Third-Party Events. The Los Angeles marketplace hosts a robust level of event activity with three major arenas. While Staples Center, Honda Center, and The Forum are among the top performing arenas in the nation, all three venues have dates available for Major Third-Party Events today. It is reasonable to assume that the Staples Center, Honda Center, and The Forum could accommodate additional event demand without the introduction of a new facility. The addition of IBEC would further segment the marketplace. In addition, The Forum is a dedicated third-party event venue with no tenant demands on dates at the venue. It is reasonable to assume that IBEC would not impact the marketplace at the same level as The Forum as it is the home of the Clippers first and would be the fourth venue in a saturated marketplace.

**IBEC INCREMENTAL EVENT ANALYSIS**

Based on historical event growth in the Los Angeles market over the past five years and conversations with arena management in major markets, the following chart shows estimated event growth over the next six years prior to the anticipated first full year of operations at IBEC based on a CAGR of approximately three percent. As shown previously, Major Third-Party Event activity increased by 17 percent after the reopening of The Forum in Los Angeles. Due to the Clippers demand on available dates at IBEC (44 of 365 events days or 12 percent of available dates) and the more competitive landscape of adding a fourth venue to a saturated marketplace, it is estimated that IBEC would impact the Los Angeles marketplace at two-thirds the rate of The Forum (11 percent), adding an incremental 32 new events to the marketplace.



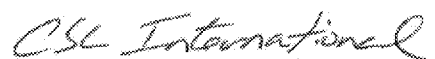
Overall, it is reasonably estimated that the portion of Major Third-Party Events anticipated to be hosted by IBEC that could be considered new to the market could total 41 percent (32 of 78 events). Based on a review of event characteristics, CSL anticipates that the event category to be the most likely new to the market as a result of IBEC would be "other" events including sporting events, comedy, other entertainment/performance shows, motorsports, rodeo, and political/religious gatherings. The category next most likely to be new is concerts. Family shows which has a relatively stable level of content year-over-year is the least likely category to be new to the Los Angeles market. IBEC is not anticipated to significantly contribute to growth in the number of corporate or community events, rather, it is expected that IBEC will host events that would otherwise occur at other locations in the Los Angeles area such as hotel banquet rooms, auditoriums or theaters, or other similar venues.

\* \* \* \* \*

The information contained in this report is based on estimates, assumptions and other information developed from secondary market research, knowledge of the sports and entertainment industry, and other factors, including certain information provided by Wilson Meany and others. All information provided to us was not audited or verified and was assumed to be correct. Because procedures were limited, we express no opinion or assurances of any kind on the achievability of any projected information contained herein and this report should not be relied upon for that purpose. Furthermore, there will be differences between projected and actual results. This is because events and circumstances frequently do not occur as expected, and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report.

We sincerely appreciate the opportunity to assist you with this project and would be pleased to be of further assistance in the interpretation and application of the study's findings.

Very truly yours,



CSL International

**Attachment 3, Exhibit 3**  
**IBEC Project Review of Water Demands**



## MEMORANDUM

**TO:** Mr. Chris Holmquist, Wilson Meany

**FROM:** Stetson Engineers Inc.

**SUBJECT:** Inglewood Basketball and Entertainment Center (IBEC) Project  
Review of Water Demands

**DATE:** June 3, 2019

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### **I. Introduction**

The proposed Inglewood Basketball and Entertainment Center project (IBEC Project or Project) includes the purchase of land and the development of a sporting arena and entertainment center in the City of Inglewood. As part of the Environmental Impact Report (EIR) process for the proposed Project, Wilson Meany, as project manager for proponent of the proposed Project Murphy's Bowl, LLC (Murphy's Bowl) has requested Stetson Engineer's (Stetson) prepare a water demand study.

The water demand study presented below provides an estimate of the water demands for the proposed IBEC Project, including separate water demand estimates for: (1) existing uses at the Project site and (2) the proposed Project facilities. In addition, this water demand study reviewed the potential impacts to water use (i.e. reduction) necessary for the Project to achieve Leadership in Energy and Environmental Design (LEED) "Gold Certification". Where noted below, this study is based on Project-specific information provided by Murphy's Bowl.



## II. Existing Water Demands (Project Site)

This water demand study includes an estimate of the existing water demands from developed properties which would be purchased as part of the IBEC Project. Pursuant to documentation provided by Murphy's Bowl<sup>1</sup>, parcels are to be purchased for the Project under a "Proposed IBEC Project" scenario or a "Alternate Prairie Access Project Variant" scenario. Under the "Proposed IBEC Project" scenario, the following non-residential properties (parcels) would be purchased:

1. Assessor Parcel Number: 4032-001-039
2. Assessor Parcel Number: 4032-001-049
3. Assessor Parcel Number: 4032-001-048
4. Assessor Parcel Number: 4032-007-035
5. Assessor Parcel Number: 4032-008-035
6. Assessor Parcel Number: 4032-001-902

The existing uses on these "Proposed IBEC Project" parcels include a fast food restaurant, a motel, a light manufacturing/warehouse facility, a commercial catering business, and a City water well.

Under a separate "Alternate Prairie Access Variant" scenario for the proposed Project, the following residential parcels would also be purchased:

7. Assessor Parcel Number: 4032-008-002
8. Assessor Parcel Number: 4032-008-006

A summary description of the eight parcels is provided in Table 1. It is Stetson's understanding the proposed Project (including the eight identified parcels) is located within the northern part of Golden State Water Company's (GSWC) Southwest service

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<sup>1</sup> IBEC documentation dated November 14, 2018



area. As indicated in communications with Murphy's Bowl, the water meter records for these eight parcels were previously requested from GSWC, however, records were not provided.

The existing annual water demands for the eight parcels were estimated by Stetson using representative water demands and water demand factors from similar commercial, industrial, and residential water uses (described in Table 1). Based on these water demand factors, as well as parcel information provided by Murphy's Bowl (i.e. existing uses, building sizes, number of units), the following estimated water demands were determined:

- The total water demand for the "Proposed IBEC Project" parcels is estimated at approximately 6.6 acre-feet per year (AFY).
- The total water demand for the "Alternate Prairie Access Variant" parcels is estimated at approximately 1.0 AFY.
- The total water demand for both the "Proposed IBEC Project" parcels and the "Alternate Prairie Access Variant" parcels is estimated at approximately 7.6 AFY.

A summary of these water demand estimates for the existing uses is provided in Table 1.





**Table 1 Existing Water Demands (IBEC Project Parcels)**

Assessors Parcel Number	Description [1]	Building Size (sf) [1]	Estimated Water Demand (AFY)	Notes / Sources
<b>Proposed IBEC Project</b>				
1) 4032-001-039	Church's Chicken	1,118	0.6	Based on water use records from City of Lakewood for Church's Chicken (FY 2015-16)
2) 4032-001-049	36 Room Exterior Corridor Economy Motel	16,806	5.0	Based on a rate of 125 gpd per room from City of Inglewood's 2010 Urban Water Management Plan
3) 4032-001-048	Single-Tenant Manufacturing / Warehouse Building	32,631	0.9	Based on a rate of 25 gpd per 1,000 sf (LACSD May 18, 2011 Ordinance for District No. 5)
4) 4032-007-035	Single-Tenant Warehouse Building (Vacant)	10,000	0.0	Estimated at zero because the building was unoccupied at the time the Notice of Preparation for the EIR was issued (e.g., time of study)
5) 4032-008-035	Let's Have a Cart Party Store	11,134	0.04	Based on water use records from City of Lakewood for similar commercial retail stores (FY 2015-16)
6) 4032-001-902	City Water Well	NA	0.0	Existing water demands are assumed negligible
<b>Subtotal (Base Case EIR)</b>			<b>6.6</b>	
<b>Alternate Prairie Access Variant</b>				
7) 4032-008-002	Single Story 3-Unit Residential	1,629	0.6	Based on an existing multi-family use rate of 0.2 AFY per unit ("Alexan Long Beach Water Supply Assessment", November 29, 2018)
8) 4032-008-006	Single Story Single Family Detached Residential Unit	795	0.4	Based on an average residential use rate of 0.4 AFY per unit from City of Inglewood's 2015 Urban Water Management Plan (Tables 4-1A and 4-1B)
<b>Subtotal (Project Variant)</b>			<b>1.0</b>	
<b>Total</b>			<b>7.6</b>	

**Notes:**

AFY = acre feet per year

FY = fiscal year

gpd = gallons per day

LACSD = Los Angeles County Sanitation District

NA = not applicable

sf = square feet

[1] Parcel descriptions and building sizes provided by Murphy's Bowl



### III. “Baseline” IBEC Project Water Demands

This water demand study also includes an assessment of the estimated water demands for the proposed IBEC Project facilities. Based on information provided by Murphy's Bowl<sup>2</sup>, the proposed Project facilities include the following:

- Sports arena: 915,000 square feet (sf)
- Office space: 71,000 sf
- Practice/training: 85,000 sf
- Medical clinic: 25,000 sf
- Community space: 15,000 sf
- Dining and retail: 48,000 sf
- Hotel 150 rooms

The proposed IBEC Project would include approximately 139,112 sf (or about 3.2 acres) of landscaping. In addition, the Project site would include approximately 437,379 (or about 10 acres) of impervious hardscape surfaces.

The estimated “Baseline” water demands for each facility type listed above are discussed in the following subsections. These Baseline water demands estimates are based on a water use scenario where standard levels of water conservation typical in newer construction projects are incorporated. The Baseline scenario incorporates “baseline” water use factors provided in Leadership in Energy and Environmental Design (LEED) documentation<sup>3</sup>. The LEED baseline water use factors incorporate United States Environmental Protection Agency (EPA) WaterSense labeled products which conserve water. Additional levels of water conservation, however, may be required in order for the proposed Project to achieve LEED Gold Certification (see Section IV).

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<sup>2</sup>“Project Condor, Buildings That Are Proposed to be Demolished”, dated November 14, 2018

<sup>3</sup>Design and Construction”, July 2, 2018, Water Efficiency



### **a. Sports Arena**

Based on information provided by Murphy's Bowl<sup>4</sup>, the sports arena will hold various events throughout the year, including basketball games, concerts, family shows, corporate / community events, plaza events, practice events, and other events. The water demands for these events were determined based on the estimated number of employees and visitors per event. In addition, various water uses were considered for each event, including toilet, urinal, restroom faucet, kitchen sink, laundry, and shower uses. The water demand for a single employee was estimated at approximately 13.7 gallons per event. The water demand for a single attendee was estimated at approximately 2.7 gallons per event. Appendix A provides additional information regarding the Baseline water demands per event.

The water demands for the sports arena also include water used for cooling tower purposes. Based on information provided by Murphy's Bowl<sup>5</sup>, the Baseline cooling tower water demands are approximately 6.0 million gallons per year, or approximately 18.4 AFY. The total Baseline water demand for the sports arena was estimated at approximately 42.1 AFY and is summarized in Table 2.

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<sup>4</sup> "Inglewood Basketball & Entertainment Center, Anticipated Annual Events Characteristics" provided by Murphy's Bowl.

<sup>5</sup> Pursuant to communications with Murphy's Bowl, Baseline cooling tower water demand would be approximately 6 million gallons per year and a proposed cooling tower system with a reduced water demand of approximately 4.8 million gallons per year for the IBEC Project



**Table 2 Baseline IBEC Water Demands (Arena and Plaza Events)**

Event Type	Number of Employees per Event [1]	Maximum Attendance per Event [1]	Baseline Water Use (gpcd)		Events per Year [1]	Estimated Baseline Water Demand	
			Per Employee [2]	Per Visitor [2]		Gallons per Year	AFY
<b>LA Clippers Home Games</b>							
Pre-Season Games	1,320	18,000	13.7	2.7	5	335,500	1.0
Regular Season Games	1,320	18,000	13.7	2.7	41	2,751,100	8.4
Postseason Games	1,320	18,000	13.7	2.7	3	201,300	0.6
<b>Concerts</b>							
5 per year (large)	1,120	18,500	13.7	2.7	5	328,600	1.0
8 per year (medium)	795	14,500	13.7	2.7	8	403,100	1.2
10 per year (small)	530	9,500	13.7	2.7	10	331,400	1.0
<b>Family Shows</b>							
20 per year	530	8,500	13.7	2.7	20	608,200	1.9
<b>Other Events</b>							
35 per year	480	7,500	13.7	2.7	35	945,100	2.9
<b>Corporate/Community Events</b>							
100 per year	25	2,000	13.7	2.7	100	579,200	1.8
<b>Plaza Events</b>							
16 per year	25	4,000	13.7	2.7	16	179,900	0.6
<b>Practice Events</b>							
260 per year [3]	54	0	13.7	2.7	260	192,000	0.6
<b>Cooling Towers</b>							
Cooling Towers [4]						6,000,000	18.4
<b>Total</b>						<b>12,855,400</b>	<b>39.5</b>

**Notes:**

AFY = acre feet per year

gpcd = gallons per day per capita

**Source:**

[1] "IBEC Anticipated Annual Events Characteristics", provided by Murphy's Bowl, 2019

[2] See Appendix A

[3] Pursuant to communications with Murphy's Bowl, 2019

[4] Proposed cooling tower water demand estimate based on information provided by Murphy's Bowl



### **b. Office Space**

The water uses for office space considered in this study include toilet, urinal, restroom faucet, kitchen sink, shower, dishwasher, HVAC/cooling, indoor cleaning, and miscellaneous uses. It is estimated the water use rate for office space is approximately 99 gallons per day per 1,000 sf. The total area of office space in the proposed Project is approximately 111,000 sf and includes offices (71,000 sf), the medical clinic (25,000 sf), and the community space (15,000 sf). The total Baseline water demand for office space was estimated at approximately 8.8 AFY and is summarized in Table 3.

### **c. Retail Space**

The water uses for retail space considered in this study include toilet, urinal, and restroom faucet uses. It is estimated the water use rate for retail space is approximately 302 gallons per day per 1,000 sf. The total area of retail space in the proposed Project is approximately 24,000 sf and includes a team store and other general retail and services. The total Baseline water demand for retail space was estimated at approximately 8.1 AFY and is summarized in Table 3.

### **d. Restaurant Space**

The estimated water use rate for restaurant space is approximately 300 gallons per day per 1,000 sf. The total area of restaurant space in the proposed Project is approximately 24,000 sf and includes restaurants, bars, lounges, and a coffee shop. The total Baseline water demand for restaurant space was estimated at approximately 8.1 AFY and is summarized in Table 3.



**Table 3 Baseline IBEC Water Demands (Office, Retail, Restaurant, Cleaning, and Hotel)**

Other Components	Area (sf) [1]	Unit Rate	Days per Year	Annual Water Use (gal)	AFY
Office Space	111,000	99 gpd per 1,000 sf [2]	260	2,857,100	8.8
Retail Space	24,000	302 gpd per 1,000 sf [2]	365	2,645,500	8.1
Restaurant Space	24,000	300 gpd per 1,000 sf [2]	365	2,628,000	8.1
Landscape	139,112	See Appendix A		4,662,800	14.3
Washdown and Facility Cleaning					
Outdoor (Hardscape and Parking Areas)	577,669	See Appendix A		225,665	0.7
Indoor (Arena and Practice Facilities)	1,000,000	See Appendix A		768,000	2.4
Hotel (150 rooms)		See Appendix A		6,843,800	21.0
<b>Total</b>				<b>20,630,865</b>	<b>63.3</b>

**Notes:**

AFY = acre feet per year

gpd = gallons per day

sf = square feet

**Source:**

[1] "IBEC Project Program", provided by Murphy's Bowl, 2019

[2] See Appendix A

**e. Hotel**

The estimated water use rate for a hotel is approximately 125 gallons per day per unit. This water use rate was based on the City of Inglewood's 2010 and 2015 Urban Water Management Plans. The proposed Project includes a 150-unit hotel. The total Baseline water demand for restaurant space was estimated at approximately 21 AFY and is summarized in Table 3.

**f. Landscaping**

Landscape irrigation demands can be estimated using a water budget calculator provided by the California Department of Water Resources (DWR). The water budget calculator



estimates the water use of a landscaped area based on the various components including the reference evapotranspiration, plant factors, irrigated area, and an irrigation efficiency factor. Pursuant to the “Landscape Narrative” for the proposed Project provided by Murphy’s Bowl, the proposed Project currently includes approximately 139,112 sf (or about 3.2 acres) of landscaping (i.e. trees and understory planting). The Baseline water demands for the proposed Project would include medium water use turfgrass (plant factor of 0.7) incorporating fixed spray irrigation (irrigation efficiency of 0.65). The total Baseline water demand for landscaping was estimated at approximately 14.3 AFY and is summarized in Table 3.

It is anticipated a majority of the landscape irrigation water demands for the proposed Project will be served through use of recycled water. It is Stetson’s understanding West Basin Municipal Water District (WBMWD) owns a recycled water pipeline along Prairie Avenue<sup>6</sup> through the Project location. Pursuant to communications with Murphy’s Bowl, the landscape irrigation water demands for the hotel and the eastern parking garage areas will not be served by recycled water. The Baseline landscape water demands for these two areas (hotel and the eastern parking garage areas) is approximately 3.5 AFY. As a result, the total Baseline recycled water demand for the proposed Project is approximately 10.8 AFY (or 14.3 AFY – 3.5 AFY), or approximately 76 percent of the total Baseline landscape water demands.

#### **g. Washdown and Facility Cleaning**

The proposed Project will require water to wash down outdoor hardscape areas and parking areas. Pursuant to the “Landscape Narrative” for the proposed Project provided by Murphy’s Bowl, the total hardscape square footage of impervious surfaces, including the parking areas, is approximately 437,379 sf (or about 10 acres). These areas require water for periodic washdown/cleaning. In addition, water is required to washdown indoor facilities including the arena and the practice facilities. Pursuant to the “IBEC Project Program” provided by Murphy’s Bowl, the total indoor washdown area is approximately

<sup>6</sup>[http://www.westbasin.org/sites/default/files/WB\\_RecycledWaterSystem\\_2017.pdf](http://www.westbasin.org/sites/default/files/WB_RecycledWaterSystem_2017.pdf)



1,000,000 sf and consists of the arena (915,000 sf) and the practice facility (85,000 sf). The total Baseline water demand for washdown and facility cleaning was estimated at approximately 2.4 AFY and is summarized in Table 3.

**h. Total Baseline IBEC Water Demands**

The total Baseline water demands for the proposed IBEC Project is approximately 102.8 AFY and are summarized in Table 4.

**Table 4 IBEC Project Water Demands ("Baseline" Scenario)**

Water Use Type	"Baseline" Water Demand (AFY)	Source
Arena and Plaza Events	21.0	Table 2; Appendix A
Arena and Plaza Events (Other) [1]	18.4	Table 2; Appendix A
Office Space	8.8	Table 3; Appendix A
Retail Space	8.1	Table 3; Appendix A
Restaurant Space	8.1	Table 3; Appendix A
Landscape	14.3	Table 3; Appendix A
Outdoor Washdown	0.7	Table 3; Appendix A
Indoor Washdown	2.4	Table 3; Appendix A
Hotel (150 rooms)	21.0	Table 3; Appendix A
Subtotal - Indoor	69.3	
Subtotal - Outdoor	15.0	(Landscape + Outdoor Washdown)
Subtotal - Other	18.4	(Event Center Cooling Towers)
<b>Total</b>	<b>102.8</b>	

**Notes:**

[1] Includes arena structure cooling tower water demands





#### **IV. Proposed IBEC Project Water Demands (With “LEED Gold Certification”)**

It is anticipated the proposed IBEC Project will include project design features which will reduce overall water demands. These features include the installation of energy and resource-efficient facilities necessary for LEED Gold Certification. As part of obtaining LEED Gold Certification, the proposed Project can implement certain water efficiency actions. These actions, which are discussed below, will reduce the Project’s total water demands (compared to the “Baseline” scenario).

Pursuant to the U.S. Green Building Council<sup>7</sup>, different levels of LEED certification can be achieved based on the total points earned from various categories (including a “Water Efficiency” category) covered in the LEED rating system. Based on the total number of points a project earns, the four levels of LEED certification include the following:

- Certified (40 to 49 points)
- Silver (50 to 59 points)
- Gold (60 to 79 points)
- Platinum (80+ points)

##### **a. LEED Certification Prerequisites**

For the purposes of this water demand study, only the potential Project water demand reductions associated with the LEED “Water Efficiency” credit category were reviewed. According to LEED documentation<sup>8</sup>, the proposed Project will need to fulfil three (3) prerequisites in order to receive points under the Water Efficiency” credit category. The following is a summary of the LEED certification prerequisites for new building construction:

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<sup>7</sup> <https://www.usgbc.org/articles/whats-difference-between-lead-credit-lead-prerequisite-and-lead-point>

<sup>8</sup> “LEED v4 for Building Design and Construction”, July 2, 2018, Water Efficiency (pages 50 to 54)



**1. Outdoor Water Use Reduction**

Outdoor landscaping must be designed to reduce (by at least 30% from a calculated baseline) or eliminate the need for water usage.

**2. Indoor Water Use Reduction**

The project building must reduce aggregate water use 20% from the baseline and all newly installed toilets, urinals, private lavatory faucets and showerheads that are eligible for labeling must be WaterSense labeled.

**3. Building-Level Water Metering**

The project building will be required to

- Install permanent meters capable of measuring total potable water use for the building and associated grounds,
- Document that data on a monthly basis, and
- Agree to share the data with the U.S. Green Building Council (USGBC) for five years following project certification or building occupancy, whichever comes first.

Pursuant to AECOM's "Sustainability / LEED Checklist" (provided by Murphy's Bowl), dated August 29, 2018, the proposed IBEC Project will meet the LEED certification prerequisites through the following actions:

- 1) The Project will use recycled water to service water conscious landscape design. (As discussed in Section IV(b) below, the Project will reduce outdoor water use by at least 50 percent.)
- 2) The Project will incorporate water efficient fixtures to achieve approximately 40 percent reduction in indoor water use
- 3) The Project will incorporate smart-meters



## b. LEED Gold Certification Points

After meeting the prerequisites discussed in the Section above, LEED certification points can be earned from the following four (4) Water Efficiency credit categories (for new construction buildings)<sup>9</sup>:

### 1. Outdoor Water Use Reduction

Eliminating the need for outdoor irrigation entirely or reducing the landscape watering requirement by at least 50% can earn up to **two (2) points** for the project building.

### 2. Indoor Water Use Reduction

Reducing indoor water use beyond the 20% prerequisite can earn new construction buildings up **six (6) points**, including the following:

- 25% Reduction = 1 point
- 30% Reduction = 2 point
- 35% Reduction = 3 point
- 40% Reduction = 4 point
- 45% Reduction = 5 point
- 50% Reduction = 6 point

### 3. Cooling Tower Water Use

This is designed to encourage buildings to conserve water used for cooling tower makeup while effectively controlling microbes, corrosion and scale in the condenser water system. This credit can earn up to **two (2) points**.

### 4. Additional Water Metering

Installation of permanent water meters for two or more of the following water subsystems,

- Irrigation,
- Indoor plumbing fixtures and fittings,
- Domestic hot water,
- Boilers,
- Reclaimed water, and
- Other process water.

Projects that sub-meter at least two water end uses are awarded **one (1) point**.

The proposed IBEC Project can obtain LEED certification points through the following actions:

- 1) The IBEC Project will obtain at least 1 point under the "Outdoor Water Use Reduction" category by incorporating landscaping which results in a 50 percent

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<sup>9</sup> "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency (pages 55 to 62)



reduction in outdoor water use compared to baseline (i.e. turf) irrigation during the peak watering month. Pursuant to LEED documentation<sup>10</sup>, the calculation to determine if the Project's proposed landscaping meets the minimum 50 percent reduction requirement is based on using the EPA's WaterSense Water Budget Tool<sup>11</sup>. Stetson incorporated the IBEC Project landscape information from Section III(f), as well as climate data recommended by the EPA<sup>12</sup>, into the Water Budget Tool. The results of the Water Budget Tool indicate the proposed landscaping for the IBEC Project will result in a 50 percent reduction in outdoor landscape compared to baseline irrigation requirements during the peak water month (i.e. July). Based on the Water Budget Tool results, the IBEC Project will obtain 1 point under the "Outdoor Water Use Reduction" category. The results of the Water Budget Tool for the IBEC Project are provided in Appendix B.

It should be noted a maximum of 2 points can be obtained under the "Outdoor Water Use Reduction" category by incorporating landscaping which results in a 100 percent reduction in outdoor water (compared to baseline irrigation during the peak watering month). As noted above, the IBEC Project will obtain at least 1 point through a 50 percent reduction. Pursuant to the LEED documentation, additional outdoor water use reductions beyond 30 percent can be achieved by incorporating "alternative water sources" (e.g. recycled water). As discussed in Section III(f), recycled water use is estimated at approximately 76 percent of the total landscaped irrigation demand. Although the use of recycled water is expected to increase the outdoor water use reduction beyond 50 percent, it is not certain if a 100 percent reduction can be achieved because the IBEC Project includes a landscaping component which still requires potable water supplies (remaining 24 percent).

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<sup>10</sup> "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency (page 56)

<sup>11</sup> <https://www.epa.gov/watersense/water-budget-tool>

<sup>12</sup> <https://www.epa.gov/watersense/water-budget-data-finder>



- 2) Pursuant to the “Sustainability / LEED Checklist” provided by Murphy’s Bowl, the Project will obtain 4 points under the “Indoor Water Use Reduction” category by incorporating water efficient fixtures to achieve approximately 40 percent reduction in indoor water use. A further discussion is provided in Section IV(c) below.
  
- 3) Pursuant to the “Sustainability / LEED Checklist” provided by Murphy’s Bowl, the Project will likely obtain 2 points under the “Cooling Tower Water Use” category through installation of a specialized cooling tower system and potential use of 100% recycled water for cooling tower purposes. (It should be noted, based on communications with Murphy’s Bowl, recycled water may not be suitable for cooling tower purposes. The use of recycled water for cooling tower purposes may require additional treatment.)
  
- 4) Pursuant to the “Sustainability / LEED Checklist” provided by Murphy’s Bowl, the Project can potentially obtain 1 point under the “Additional Water Metering” category through the installation of meters for the domestic hot water, boiler make up, and recycled water systems.

**c. Proposed Project Water Demands (With “Gold Certification”)**

As discussed above, the proposed IBEC Project will incorporate various project design features, including implementation of LEED water efficiency actions, which will reduce the Project water demands. The total water demands for the proposed IBEC Project, including water demand reductions, are summarized below.

As discussed in Section III(a) above, Murphy’s Bowl indicated the Baseline cooling tower water demand would be approximately 6 million gallons per year. However, the proposed cooling tower system for the IBEC Project has a reduced water demand of approximately 4.8 million gallons per year.



As discussed in Section IV(b) above, the proposed IBEC Project will incorporate landscaping which results in a 50 percent reduction in outdoor water use compared to baseline (i.e. turf) irrigation during the peak watering month. Pursuant to the “Landscape Narrative” for the proposed Project provided by Murphy’s Bowl, the proposed Project will include low to medium water use plantings (plant factors between 0.2 and 0.5) incorporating drip irrigation (irrigation efficiency of 0.7). The total proposed water demand for landscaping is estimated at approximately 6.6 AFY. Also discussed in Section IV(b), the landscape irrigation water demands for the hotel and the eastern parking garage areas will not be served by recycled water. The proposed landscape water demands for these two areas (hotel and the eastern parking garage areas) is approximately 1.6 AFY. As a result, the total recycled water demand for the proposed Project is approximately 5.0 AFY (or 6.6 AFY – 1.6 AFY), or approximately 76 percent of the total Baseline landscape water demands.

As discussed in Section IV(b) above, the proposed IBEC Project’s total water demands will be reduced under the “Indoor Water Use Reduction” category (compared to the “Baseline” water demands discussed in Section III). As discussed previously, the checklist provided by Murphy’s Bowl anticipates the proposed Project will obtain 4 certification points through installation of water efficient fixtures that will achieve approximately 40 percent reduction in total indoor water use. As shown in Table 4, the total indoor “Baseline” water demand has been estimated at approximately 67.2 AFY<sup>13</sup>. The amount of water reduction necessary for a 40 percent reduction is approximately 26.9 AFY (or 67.2 x 40 percent). By reducing the indoor water use by 40 percent, the total indoor water demand for the proposed Project would be approximately 40.3 AFY (or 67.2 AFY – 26.9 AFY).

For the purposes of this study, the indoor water uses associated with the proposed Project facilities include the following:

- Arena and Plaza water uses (excluding cooling towers)
- Office space water uses
- Retail space water uses
- Restaurant water uses

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<sup>13</sup> Consultants to Murphy’s Bowl indicated the water demands for the Event Center cooling towers are not considered as part of indoor water uses under the “Indoor Water Use Reduction” category



- Hotel water uses
- Arena and practice facility washdowns

Reductions in indoor water use for the proposed Project can be achieved by installing water fixtures which conserve more water compared to the water fixtures presented in the Baseline scenario. Table 5 provides a summary of the water fixtures and water use rates incorporated in the proposed Project (to achieve LEED Gold Certification).

**Table 5 Water Conservation Fixtures (“Baseline” Scenario and Proposed Project)**

Fixture Type	Units	Water Use Rate		Percent Reduction
		“Baseline”	Proposed Project	
Restroom Sink Faucet	gpm	0.5	0.35	30%
Urinals	gpf	1	0.125	88%
Toilets	gpf	1.6	1.1	31%
Showerhead	gpm	2.5	1.5	40%
Kitchen Faucet	gpm	2.2	1.5	32%
Dishwasher	gpc	6	4.8	20%

**Notes**

- gpc - gallons per cycle
- gpf = gallons per flush
- gpm = gallons per minute

Indoor water use reductions based on water fixtures for the proposed Project can be quantified for the Arena and Plaza events, office space, and retail space using similar methodologies described in Section III (and estimated in Appendix C). By installing these water fixtures, the total indoor water use reduction associated with the Arena and Plaza events (9.2 AFY), office space (2.7 AFY), and retail space (4.1 AFY) was estimated at approximately 16 AFY, resulting in an average water reduction of approximately 45 percent for these particular uses. The water demands reductions for the proposed Project are summarized in Table 6.



In order to achieve the identified 40 percent reduction in total indoor water use necessary for LEED Gold Certification, an additional 10.9 AFY (or 26.9 AFY – 16 AFY) of indoor water use will need to be reduced. The remaining indoor water uses for the proposed Project include water uses associated with restaurant space, the hotel, and indoor facility washdowns/cleaning. However, it is not anticipated water uses associated with periodic indoor facility washdowns/cleaning (“Baseline” demand of 2.4 AFY) will be significantly reduced. As a result, additional water demand reductions of at least 10.9 AFY from the restaurant space and the hotel will be required.

Although the estimated water demands for restaurant space (under the Baseline scenario) were not determined based on calculating demands from individual water fixture types, the water demands for restaurant space in general can be reduced if the proposed Project requires the installation of water saving fixtures, including the restroom sink faucets, urinals, toilets, kitchen faucets, and dishwashers identified in Table 5. Based on the combined estimated 45 percent water reduction from Arena and Plaza events, office space, and retail space (discussed above), it is assumed the installation of the water savings fixtures under the proposed Project will reduce water demands associated with restaurant space by approximately 45 percent. Likewise, the water demands for the hotel in general can be reduced if the proposed Project requires the installation of water saving fixtures, including the restroom sink faucets, toilets, and showerheads identified in Table 5. Based on the percentage range of water conservation for these fixtures provided in Table 5 (i.e. 30 to 40 percent), it is assumed the installation of water saving fixtures under the proposed Project will reduce water demands associated with the hotel by approximately 35 percent. As a result, the anticipated water demand reduction for the restaurant space (3.6 AFY) and hotel (7.4 AFY) is approximately 11 AFY. A summary of these reduced restaurant space and hotel water demands is provided in Table 6.





**Table 6 Summary of IBEC Project Water Demands (Baseline and Proposed Project)**

Water Use Type	Estimated Water Demands (AFY)		Indoor Water Demand Reductions [3]	
	"Baseline"	"Proposed Project" (See Appendix C)	(AFY)	Percentage
<b><u>Indoor</u></b>				
Arena and Plaza Events [1]	21.0	10.7	10.3	49%
Office Space	8.8	6.1	2.7	31%
Retail Space	8.1	4.0	4.1	51%
Restaurant Space	8.1	4.4	3.6	45%
Indoor Washdown	2.4	2.4	0.0	0%
Hotel (150 rooms)	21.0	13.7	7.4	35%
<b>Subtotal - Indoor</b>	<b>69.3</b>	<b>41.2</b>	<b>28.1</b>	<b>41%</b>
<b><u>Outdoor</u></b>				
Landscape	14.3	6.6	-	-
Outdoor Washdown	0.7	0.7	-	-
<b>Subtotal - Outdoor</b>	<b>15.0</b>	<b>7.3</b>	<b>-</b>	<b>-</b>
<b><u>Other</u></b>				
Arena and Plaza Events [2]	18.4	14.7	-	-
<b>Subtotal - Other</b>	<b>18.4</b>	<b>14.7</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>102.8</b>	<b>63.3</b>	<b>-</b>	<b>-</b>

**Notes:**

[1] Excludes arena structure cooling tower water demands

[2] Arena structure cooling tower water demands

[3] Pursuant to the LEED's "Indoor Water Use Reduction" category



As summarized in Table 6, the proposed Project will have the following water demands/reductions:

- The total indoor water use for the proposed Project will be reduced by approximately 28.1 AFY (or about 41 percent), compared to the “Baseline” scenario
  
- The total overall water demands for the proposed Project are approximately 63.3 AFY

## APPENDIX A

Appendix A - Baseline Water Demand Use Rate Estimates

Event Center End Uses									
1. Visitors									
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use	
Restroom Sink Faucet	0.5	gal/min	0.25	min	1	0.1	Source [1] Table 1	Source [2] Table 8	
Urinals	1	gal/flush	1	flush	1	1.0	Source [1] Table 1	Source [2] Table 8	
Toilets	1.6	gal/flush	1	flush	1	1.6	Source [1] Table 1	Source [2] Table 8	
<b>Sub-Total</b>						<b>2.7</b>			
2. Full-Time Employees									
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Employee	Source for Rates	Source for No. of Units and Ave. Daily Use	
Showerhead	2.5	gal/min	5	min	0.3	3.8	Source [1] Table 1	Source [2] Table 8	
Restroom Sink Faucet	0.5	gal/min	0.25	min	3	0.4	Source [1] Table 1	Source [2] Table 8	
Urinals	1	gal/flush	1	flush	2	2.0	Source [1] Table 1	Source [2] Table 8	
Toilet	1.6	gal/flush	1	flush	4	6.4	Source [1] Table 1	Source [2] Table 8	
Kitchen Faucet	2.2	gal/min	0.25	min	1	0.6	Source [1] Table 1	Source [2] Table 8	
Laundry	4	gal/pound	0.5	pound	0.3	0.6	Source [2] Table 8	Source [2] Table 8	
<b>Sub-Total</b>						<b>13.7</b>			
Office End Uses									
1. Full-Time Employees									
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use	
Showerhead	2.5	gal/min	5	min	0.3	3.8	Source [1] Table 1	Source [2] Table 8	
Restroom Sink Faucet	0.5	gal/min	0.25	min	3	0.4	Source [1] Table 1	Source [2] Table 8	
Urinals	1	gal/flush	1	flush	2	2	Source [1] Table 1	Source [2] Table 8	
Toilet	1.6	gal/flush	1	flush	4	6.4	Source [1] Table 1	Source [2] Table 8	
Kitchen Faucet	2.2	gal/min	0.25	min	1	0.6	Source [1] Table 1	Source [2] Table 8	
<b>Sub-Total</b>						<b>13.2</b>			
<b>Grosssf/Employee</b>						<b>200</b>	Source [2] Table 8	Source [2] Table 8	
<b>GPD per 1,000 gross sf</b>						<b>66</b>			
2. Dishwasher	6	gal/cycle	1	cycle	1	6	Source [6]	Source [2] Table 8	
3. Cooling Equipment	0.0196	gal/sf	1000	sf	1	20	Source [2] Table 8	Source [2] Table 8	
4. Indoor Floor Cleaning	0.75	gal/min	4	min/1000 sf	0.7	2	Source [2] Table 8	Source [2] Table 8	
5. Misc (assumed 5%)						5	Source [2] Table 8	Source [2] Table 8	
<b>Total GPD per 1,000 gross sf</b>						<b>99</b>			

Retail End Uses								
1. Customer								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.5	gal/min	0.25	min	1	0.125	Source [1] Table 1	Source [2] Table 8
Urinals	1	gal/flush	1	flush	1	1	Source [1] Table 1	Source [2] Table 8
Toilets	1.6	gal/flush	1	flush	1	1.6	Source [1] Table 1	Source [2] Table 8
					Sub-Total	2.725		
					gross sf/customer	10	Source [2] Table 8	
					GPD per 1,000 gross sf	272.5		
2. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.5	gal/min	0.25	min	3	0.375	Source [1] Table 1	Source [2] Table 8
Urinals	1	gal/flush	1	flush	2	2	Source [1] Table 1	Source [2] Table 8
Toilets	1.6	gal/flush	1	flush	4	6.4	Source [1] Table 1	Source [2] Table 8
					Sub-Total	8.775		
					Gross sf/Employee	300	Source [2] Table 8	Source [2] Table 8
					GPD per 1,000 gross sf	29		
						Total GPD per 1,000 gross sf	302	

Restaurant End Uses								
Type	Rate	Unit			Ave. Daily Use	GPD	Source for Rates	
Restaurant	300	gal/day/1,000 sf			1	300	Source [3]	
					Sub-Total	300		
					GPD per 1,000 gross sf	300		
						Total GPD per 1,000 gross sf	300	

Washdown and Facility Cleaning								
Type	Flow Rate	Unit	No. of Units	Unit	Ave Yearly Use	GPY per 1,000 GSF	Source for Rates	Source for No. of Units and Ave. Daily Use
Outdoor Hardscape Washdown (includes two parking areas) Total = 437,379 sf [4]								
South Parking garage = 70,770 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
West Parking garage = 192,063 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
Outdoor Hardscape = 174,546sf	5	gal/min	30	min/1,000 sf	4	600	Source [2] Table 8	Source [2] Table 8
				Project Annual Water Use (gal)		183,578		
Eastern Parking Area Outdoor Hardscape Washdown Eastern Parking Garage = 140,290 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
				Project Annual Water Use (gal)		42,087		
Indoor floor cleaning Total = 915,000 sf of Arena plus 85,000 sf of Practice/Training Facility	0.75	gal/min	4	min/1,000 sf	256	768	Source [2] Table 8	Source [2] Table 8
				Project Annual Water Use (gal)		768,000 (using total area of 1,000,000 sf)		
				Total GPY		993,665		

Landscape Area						
Type	ETo	Plant Factor	Irrigated Area	Irrigation Efficiency	Ave Yearly Use GPY	Source
Planting Area Total = 139,112 sf	50.2	0.7	139,112	0.65	4,662,777	Irrigation Demand = (ETo) x (0.62) x ((PF x IA) / IE) Murphy's Bowl (Landscape Narrative)
				Total GPY		4,662,777

\*ETo from International Water Management Institute (<http://wcatlas.iwmi.org/Default.asp>) data for Project area  
Plant factor based on turf irrigation with medium (0.7) water requirements  
Irrigation efficiency (0.65) based on fixed spray irrigation

Hotel					
Type	No. Rooms	Gallons per room per day	No. of Days	Ave Yearly Use GPY	Source
150 Rooms	150	125	365	6,843,750	Source [5] Appendix F
				<b>Total GPY</b>	<b>6,843,750</b>

**Sources:**

[1] "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency

[2] "Mission Bay Blocks 29-32 – Water Demand Memorandum", BKF Engineers, November 2014,

[3] "Convention and Event Center Project - Draft Environmental Impact Report", City of Los Angeles, April 2012, Volume IV.K.1, Utilities - Water (Table IV.K.1-9)

[4] Communications with Murphy's Bowl, 2019

[5] "City of Inglewood's 2010 Urban Water Management Plan", May 2011

[6] <https://www.ahs.com/home-matters/quick-tips/how-much-water-does-a-dishwasher-use/>

**Notes:**

gal/min = gallons per minute

GPD = gallons per day

sf = square feet

## **APPENDIX B**



### WaterSense New Home Specification: Water Budget Tool (V 1.03)

This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.

Your Name:	IBEC Project
Builder Name:	[Enter]
Lot Number/Street Address:	Intersec ion of Century Blvd and Prarie Ave.
City, State, Zip Code:	Inglewood, CA 90303
Peak Watering Month:	July
Obtain from Water Budget Data Finder at <a href="https://www.epa.gov/watersense/water-budget-data-finder">https://www.epa.gov/watersense/water-budget-data-finder</a>	
Is an irrigation system being installed on this site?	<input checked="" type="checkbox"/> yes



### This worksheet determines the baseline and the landscape water allowance (LWA) for a site based on its peak watering month.

The baseline is the amount of water required by the site during the peak watering month if watered at 100 percent of reference evapotranspiration (ET<sub>o</sub>). The following formula is used to calculate the baseline:

$$Baseline = ET_o \times A \times C_u$$

Where:  
ET<sub>o</sub> = Local reference evapotranspiration (inches/month)  
A = Landscaped area (square feet)  
C<sub>u</sub> = Conversion factor (0.6233 for results in gallons/month)

The LWA is the water allotment for the site. The following formula is used to calculate the LWA:

$$LWA = 0.70 \times Baseline$$

Where:  
LWA = Landscape water allowance (gallons/month)  
Baseline = ET<sub>o</sub> x landscaped area x 0.6233

To calculate the Baseline and LWA for a site, enter the designed landscaped area and average monthly reference evapotranspiration for the site's peak watering month. (Enter data in white cells only.)

**STEP 1A - ENTER THE LANDSCAPED AREA (A)**  
139,112 Area of the designed landscape (square feet)

**STEP 1B - ENTER THE AVERAGE MONTHLY REFERENCE EVAPOTRANSPIRATION (ET<sub>o</sub>)**  
6.21 Average monthly reference ET (inches/month) for the site's peak watering month  
Obtain from Water Budget Data Finder at <https://www.epa.gov/watersense/water-budget-data-finder>

#### OUTPUT - BASELINE FOR THE SITE

538,489 Monthly baseline (gallons/month) based on the site's peak watering month

#### OUTPUT - WATER ALLOWANCE FOR THE SITE

376,942 Monthly landscape water allowance (gallons/month) based on the site's peak watering month

Next Step: Click on the next tab labeled Part 2 - LWR to calculate the landscape water requirement.

**WaterSense New Home Specification Water Budget Tool (V 1.03)**

This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.

Your Name: \_\_\_\_\_  
 Builder Name: \_\_\_\_\_  
 Lot Number/Street Address: \_\_\_\_\_  
 City, State, Zip Code: \_\_\_\_\_  
 Peak Watering Month: \_\_\_\_\_  
 Is an irrigation system being installed on this site?  Yes



This worksheet determines the monthly landscape water requirement (LWR) for a site based on its peak watering month. The monthly LWR is the water requirement specific to the designed landscape. The sum of the LWRs for each hydrozone equals the site LWR. The following formula is used to calculate the LWR for each hydrozone:

$$LWR_H = \frac{1}{DU_{LQ}} [(ET_o \cdot K_L) \cdot R_o] \cdot A \cdot C_c$$

Where:  
 LWR<sub>H</sub> = Landscape water requirement for the hydrozone (gallons/month)  
 DU<sub>LQ</sub> = Lower quarter distribution uniformity  
 ET<sub>o</sub> = Local reference evapotranspiration (inches/month)  
 K<sub>L</sub> = Landscape coefficient for the type of plant in that hydrozone (dimensionless)  
 R<sub>o</sub> = Allowable rainfall, designated by WaterSense as 25% of average peak monthly rainfall (R)  
 A = Area of the hydrozone (square feet)  
 C<sub>c</sub> = Conversion factor (0.6235 for results in gallons/month)

To calculate the LWR for the site, enter the information requested below for the site's peak watering month. (Enter data in white cells only.)

**STEP 2A - ENTER THE AVERAGE MONTHLY RAINFALL (R) AT THE SITE FOR THE PEAK WATERING MONTH IDENTIFIED IN PART 1**

\_\_\_\_\_ Average monthly rainfall (inches/month) for the site's peak watering month

Obtain from Water Budget Data Folder at <http://www.esa.gov/watersense/water-budget-data-folder>.

**STEP 2B - COMPLETE TABLE 1 BELOW (enter data in white cells only)**

Enter the area of the hydrozone (square feet). The total area must equal the landscaped area entered in Step 1A.

Choose the plant type from the dropdown list (source data is displayed in Table 2).

Choose the irrigation type from the dropdown list (source data is displayed in Table 3; guidance is displayed in Table 4 and Table 5).

Table 1. Landscape Water Requirement

Zone	Hydrozone/Landscape Feature Area (sq. ft.)	Plant Type or Landscape Feature	Landscape Coefficient (K <sub>L</sub> )	Irrigation Type	Distribution Uniformity (DU <sub>LQ</sub> )	LWR <sub>H</sub> (gallons/month)
1	2,300	Trees - Medium water requirement	0.5	Drip - Standard	70%	8,800
2	2,300	Trees - Low water requirement	0.2	Drip - Standard	70%	2,843
3	41,877	Trees - Medium water requirement	0.5	Drip - Standard	70%	116,293
4	41,877	Trees - Low water requirement	0.2	Drip - Standard	70%	48,090
5	580	Trees - Medium water requirement	0.5	Drip - Standard	70%	1,548
6	580	Trees - Low water requirement	0.2	Drip - Standard	70%	810
7	13,535	Trees - Medium water requirement	0.5	Drip - Standard	70%	37,423
8	13,535	Trees - Low water requirement	0.2	Drip - Standard	70%	14,969
9	7,759	Trees - Medium water requirement	0.5	Drip - Standard	70%	21,403
10	7,759	Trees - Low water requirement	0.2	Drip - Standard	70%	8,581
11	3,635	Trees - Medium water requirement	0.5	Drip - Standard	70%	10,052
12	3,635	Trees - Low water requirement	0.2	Drip - Standard	70%	4,821
13						
14						
15						
<b>Total Area =</b>	<b>132,112</b>	<b>Landscape Water Requirement for the Site (gallons/month)</b>				<b>269,244</b>

Table 2. Plant Type or Landscape Feature and Associated Landscape Coefficient

Plant Type or Landscape Feature	K <sub>L</sub>		
	Low	Medium	High
Trees	0.2	0.5	0.5
Shrubs	0.2	0.5	0.7
Groundcover	0.2	0.5	0.7
Turfgrass	0.5	0.7	0.8
Pool, Spa, or Water Feature	0		
Permeable Hardscape	0		
Nonvegetated Softscape	0		

Table 3. Distribution Uniformity

Irrigation Type	DU <sub>LQ</sub> or DU <sub>0.2</sub>
Drip - Standard	70%
Drip - Press Comp	85%
Fixed Spray	85%
Microspray	70%
Rotor	75%
No Irrigation	NA

Lower quarter distribution uniformity (DU<sub>LQ</sub>) and DU<sub>0.2</sub> are used for drip and microspray systems. DU<sub>0.2</sub> applies to fixed spray systems.  
 Source: The Irrigation Association, October 2007 (14) Landscape Irrigation Scheduling and Water Management, 5, 2783

Source: based on USEPA for Home Planning System 2008.

Table 4. Appropriate Irrigation Types - Landscaped Areas with Irrigation Systems

IF THE PLANT TYPE IS:	THEN THE IRRIGATION TYPE CAN BE:			
	Drip - Standard	Drip - Press Comp	Fixed Spray	Microspray*
Trees	x	x		x
Shrubs	x	x		x
Groundcover	x	x		x
Turfgrass	x	x	x	x

\*Microspray may only be used on irrigation when turfgrass is present. The definition according to the 2008 ASPECC 2008 State Landscape Irrigation Guidelines and Standard Practices: "Microspray: A series of irrigation emitters or drips with one or more emitters to deliver irrigation water pressure to water (with) each with a flow rate not to exceed 1.0 gpm per hour (11.3 L/hour per hour) at the target area of coverage available for the entire series when operated at 30 psi (2.07 bar). Microspray are inclusive of "Micro-sprinklers," "Micro-sprayers," and "Microspray emitters."

Table 5. Appropriate Irrigation Types - Landscaped Areas without Irrigation Systems

IF THE PLANT TYPE OR LANDSCAPE FEATURE IS:	THEN THE IRRIGATION TYPE SHALL BE:		
	Drip - Standard	Fixed Spray	No Irrigation
Trees, Shrubs, or Groundcover with Low Water Requirements (K <sub>L</sub> = 0.2)	x		
Trees, Shrubs, or Groundcover with Medium or High Water Requirements (K <sub>L</sub> > 0.2)		x	
Turfgrass with Low, Medium, or High Water Requirements (K <sub>L</sub> > 0.2)		x	
Pool, Spa, or Water Feature			x
Permeable Hardscape			x
Nonvegetated Softscape			x

Please see additional information in the WaterSense Water Budget Approach for landscaped areas without irrigation systems.

**OUTPUT - WATER REQUIREMENT FOR THE SITE**

**269,244** Monthly landscape water requirement (gallons/month) based on the site's peak watering month

Next Step: Click on the next tab labeled Part 2 - Results to view the results.

### WaterSense New Home Specification: Water Budget Tool (V 1.03)

This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.

Your Name:   
Builder Name:   
Lot Number/Street Address:   
City, State, Zip Code:   
Peak Watering Month:   
Is an irrigation system being installed on this site?



### This worksheet determines if the designed landscape meets the water budget.

If the landscape water requirement is LESS than the landscape water allowance, then the water budget criterion is met.  
If the landscape water requirement is GREATER than the landscape water allowance, then the landscape and/or irrigation system needs to be redesigned to use less water.

#### STEP 3A - REVIEW THE LWA AND LWR FROM PART 1 AND PART 2

LWA  (gallons/month) LWR  (gallons/month)

#### STEP 3B - REVIEW THE TOTAL AREA OF TURFGRASS\* IN THE DESIGNED LANDSCAPE FROM STEP 2B

The designed landscape contains  square feet of turfgrass.\* This is  of the landscaped area.

\*This includes the area of any pools, spas, and/or water features, designated by WaterSense to be counted as turfgrass.

### OUTPUT - DOES THE DESIGNED LANDSCAPE MEET THE WATER BUDGET?

If YES, then the water budget criterion is met.  
If NO, then the landscape and/or irrigation system needs to be redesigned to use less water.

The designed landscape water requirement is a  reduction in water use from the baseline calculated in Part 1.

## APPENDIX C

**Appendix C**  
**Proposed IBEC Project Water Demands (Arena and Plaza Events)**

Event Type	Number of Employees per Event [1]	Average Attendance per Event [1]	Baseline Water Use (gpcd)		Events per Year [1]	Estimated Water Demand	
			Per Employee [2]	Per Visitor [2]		Gallons per Year	AFY
<b>LA Clippers Home Games</b>							
Pre-Season Games	1,320	18,000	8.1	1.3	5	171,800	0.5
Regular Season Games	1,320	18,000	8.1	1.3	41	1,409,000	4.3
Postseason Games	1,320	18,000	8.1	1.3	3	103,100	0.3
<b>Concerts</b>							
5 per year (large)	1,120	18,500	8.1	1.3	5	167,000	0.5
8 per year (medium)	795	14,500	8.1	1.3	8	204,000	0.6
10 per year (small)	530	9,500	8.1	1.3	10	167,800	0.5
<b>Family Shows</b>							
20 shows per year	530	8,500	8.1	1.3	20	309,400	0.9
<b>Other Events</b>							
35 events per year	480	7,500	8.1	1.3	35	481,200	1.5
<b>Corporate/Community Events</b>							
100 per year	25	2,000	8.1	1.3	100	282,800	0.9
<b>Plaza Events</b>							
16 per year	25	4,000	8.1	1.3	16	87,300	0.3
<b>Practice Events</b>							
260 per year [3]	54	0	8.1	1.3	260	114,300	0.35
<b>Cooling Towers</b>							
Cooling Towers [4]						4,800,000	14.7
<b>Total</b>						<b>8,297,700</b>	<b>25.5</b>

**Notes:**

AFY = acre feet per year  
gpcd = gallons per day per capita

**Source:**

- [1] "IBEC Anticipated Annual Events Characteristics", provided Murphy's Bowl, 2019
- [2] See Appendix A
- [3] Pursuant to communications with Murphy's Bowl, 2019
- [4] Proposed cooling tower water demand estimate based on communications with Murphy's Bowl, 2019

**Appendix C**  
**Proposed IBEC Project Water Demands (Office, Retail, Restaurant, Cleaning, and Hotel)**

Other Components	Area (sf) [1]	Unit Rate	Days per Year	Annual Water Use (gal)	AFY
Office Space	111,000	68.5 gpd per 1,000 sf [2]	260	1,976,900	6.1
Retail Space	24,000	148 gpd per 1,000 sf [2]	365	1,293,200	4.0
Restaurant Space	24,000	165 gpd per 1,000 sf [2]	365	1,445,400	4.4
Landscape	139,112	[2]		2,164,900	6.6
Washdown and Facility Cleaning					
Outdoor (Hardscape and Parking Areas)	577,669	[2]		225,665	0.7
Indoor (Arena and Practice Facilities)	1,000,000	[2]		768,000	2.4
Hotel (150 rooms)		[2]		4,448,400	13.7
<b>Total</b>				<b>12,322,465</b>	<b>37.8</b>

**Notes:**

AFY = acre feet per year  
gpd = gallons per day  
sf = square feet

**Source:**

[1] "IBEC Project Program", provided by Murpy's Bowl, 2019  
[2] See Appendix B "Gold Water Demand Use Rate Estimates"

Appendix C - Proposed IBEC Project Water Demand Use Rate Estimates

Event Center End Uses								
1. Visitors								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.35	gal/min	0.25	min	1	0.1	Source[6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	1	0.1	Source[6]	Source [2] Table 8
Toilets	1.1	gal/flush	1	flush	1	1.1	Source[6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>1.3</b>		
2. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Employee	Source for Rates	Source for No. of Units and Ave. Daily Use
Showerhead	1.5	gal/min	5	min	0.3	2.3	Source[6]	Source [2] Table 8
Restroom Sink Faucet	0.35	gal/min	0.25	min	3	0.3	Source[6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	2	0.3	Source[6]	Source [2] Table 8
Toilet	1.1	gal/flush	1	flush	4	4.4	Source[6]	Source [2] Table 8
Kitchen Faucet	1.5	gal/min	0.25	min	1	0.4	Source[6]	Source [2] Table 8
Laundry	4	gal/pound	0.5	pound	0.3	0.6	Source [2] Table 8	Source [2] Table 8
					<b>Sub-Total</b>	<b>8.1</b>		
Office End Uses								
1. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Showerhead	1.5	gal/min	5	min	0.3	2.3	Source [6]	Source [2] Table 8
Restroom Sink Faucet	0.35	gal/min	0.25	min	3	0.3	Source [6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	2	0.3	Source [6]	Source [2] Table 8
Toilet	1.1	gal/flush	1	flush	4	4.4	Source [6]	Source [2] Table 8
Kitchen Faucet	1.5	gal/min	0.25	min	1	0.4	Source [6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>7.7</b>		
					<b>Gross sf/Employee</b>	<b>200</b>	Source [2] Table 8	Source [2] Table 8
					<b>GPD per 1,000 gross sf</b>	<b>38.5</b>		
2. Dishwasher	4.8	gal/cycle	1	cycle	1	5	Source [7, Source [1]	Source [2] Table 8
3. Cooling Equipment	0.0196	gal/sf	1000	sf	1	20	Source [2] Table 8	Source [2] Table 8
4. Indoor Floor Cleaning	0.75	gal/min	4	min/1000 sf	0.7	2	Source [2] Table 8	Source [2] Table 8
5. Misc (assumed 5%)						3	Source [2] Table 8	Source [2] Table 8
						<b>Total GPD per 1,000 gross sf</b>	<b>68.5</b>	

[3] Pursuant to communications with Murphy's Bowl, 2019

Retail End Uses								
1. Customer								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.35	gal/min	0.25	min	1	0.0875	Source [6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	1	0.125	Source [6]	Source [2] Table 8
Toilets	1.1	gal/flush	1	flush	1	1.1	Source [6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>1.3125</b>		
					<b>gross sf/customer</b>	<b>10</b>	Source [2] Table 8	
					<b>GPD per 1,000 gross sf</b>	<b>131.25</b>		
2. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.35	gal/min	0.25	min	3	0.2625	Source [6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	2	0.25	Source [6]	Source [2] Table 8
Toilets	1.1	gal/flush	1	flush	4	4.4	Source [6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>4.9125</b>		
					<b>Gross sf/Employee</b>	<b>300</b>	Source [2] Table 8	Source [2] Table 8
					<b>GPD per 1,000 gross sf</b>	<b>16</b>		
<b>Total GPD per 1,000 gross sf</b>						<b>148</b>		

Restaurant End Uses							
Type	Rate	Unit	Ave. Daily Use	GPD	Source for Rates		
Restaurant	300	gal/day/1,000 sf	1	300	Source [3]		
				<b>Sub-Total</b>	<b>300</b>		
				<b>GPD per 1,000 gross sf</b>	<b>300</b>		
<b>Total GPD per 1,000 gross sf</b>					<b>165</b>	Assume 45% reduction	



Washdown and Facility Cleaning								
Type	Flow Rate	Unit	No. of Units	Unit	Ave Yearly Use	GPY per 1,000 GSF	Source for Rates	Source for No. of Units and Ave. Daily Use
Outdoor Hardscape Washdown (includes two parking areas) Total = 437,379 sf [4]								
South Parking garage = 70,770 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
West Parking garage = 192,063 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
Outdoor Hardscape = 174,546 sf	5	gal/min	30	min/1,000 sf	4	600	Source [2] Table 8	Source [2] Table 8
					<b>Project Annual Water Use (gal)</b>	<b>183,578</b>		
Eastern Parking Area Outdoor Hardscape Washdown Eastern Parking Garage = 140,290 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
					<b>Project Annual Water Use (gal)</b>	<b>42,087</b>		
Indoor floor cleaning Total = 915,000 sf of Arena plus 85,000 sf of Practice/Training Facility	0.75	gal/min	4	min/1,000 sf	256	768	Source [2] Table 8	Source [2] Table 8
					<b>Project Annual Water Use (gal)</b> (using total area of 1,000,000 sf)	<b>768,000</b>		
					<b>Total GPY</b>	<b>993,665</b>		

Landscape Area						
Type	ETo	Plant Factor	Irrigated Area	Irrigation Efficiency	Ave Yearly Use GPY	Source
Planting Area Total = 139,112 sf	50.2	0.35	139,112	0.7	2,164,861	Irrigation Demand = (ETo) x (0.62) x ((PF x IA) / IE) Murphy's Bowl (Landscape Narrative)
					<b>Total GPY</b>	<b>2,164,861</b>

\*ETo from International Water Management Institute (<http://wcatlas.iwmi.org/Default.asp>) data for Project area  
Plant factor based on an even distribution of plants with medium (0.5) and low (0.2) water requirements  
Irrigation efficiency (0.7) based on standard drip irrigation

Hotel					
Type	No. Rooms	Gallons per room per day	No. of Days	Ave Yearly Use GPY	Source
150 Rooms	150	125	365	6,843,750	Source [5] Appendix F
				Total GPY 4,448,438	Assume 35% reduction

**Sources:**

- [1] "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency
- [2] "Mission Bay Blocks 29-32 – Water Demand Memorandum", BKF Engineers, November 2014,
- [3] "Convention and Event Center Project - Draft Environmental Impact Report", City of Los Angeles, April 2012, Volume IV.K.1, Utilities - Water (Table IV.K.1-9)
- [4] Communications with Murphy's Bowl, 2019
- [5] "City of Inglewood's 2010 Urban Water Management Plan", May 2011
- [6] <https://www.americanstandard-us.com/-/media/sites/asus/files/support-files/2015-water-efficiency-brochure.pdf?la=en>

**Notes:**

- gal/min = gallons per minute
- GPY = gallons per day
- sf = square feet

**Attachment 3, Appendix A**  
**IBEC Project GHG Analysis**

# Table of Contents

Proposed IBEC Project Emissions Summary .....	2
Variant Emissions Summary .....	4
Baseline Emissions Summary .....	6
Construction Emissions Summary .....	8
Backfill Operational Emissions .....	10
IBEC Project Operations Emissions without GHG Reduction Measures.....	12
IBEC Project Operations with GHG Reduction Measures .....	14
IBEC Project with Local, Direct GHG Reduction Measures.....	16
Potential Additional Local, Direct Measures .....	18
Mobile Source Emissions .....	20
CalEEMod Outputs .....	26
Project Operations Outputs .....	27
Backfill Operations Outputs .....	354
Baseline Emissions Outputs .....	437
Construction Emissions Outputs.....	567

## **Proposed IBEC Project Emissions Summary**

Net GHG Emissions Summary: Proposed IBEC Project

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions without TDM and without Project Design Features	Emissions Source Construction	3,834	8,373	7,437	1,188													
	Project Operations				11,996	23,244	22,595	22,014	21,492	21,020	20,593	20,033	19,480	18,961	18,473	18,015	17,583	17,177
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,834</b>	<b>8,373</b>	<b>7,437</b>	<b>13,647</b>	<b>24,141</b>	<b>23,466</b>	<b>22,861</b>	<b>22,316</b>	<b>21,822</b>	<b>21,373</b>	<b>20,795</b>	<b>20,222</b>	<b>19,684</b>	<b>19,178</b>	<b>18,702</b>	<b>18,254</b>	<b>17,831</b>
	Existing Operations (2018)	1,209	1,209	1,209	7,249	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289
	<b>NET GHG EMISSIONS</b>	<b>2,625</b>	<b>7,164</b>	<b>6,228</b>	<b>6,398</b>	<b>10,852</b>	<b>10,177</b>	<b>9,572</b>	<b>9,027</b>	<b>8,533</b>	<b>8,084</b>	<b>7,505</b>	<b>6,933</b>	<b>6,395</b>	<b>5,889</b>	<b>5,413</b>	<b>4,965</b>	<b>4,542</b>
	<b>Cumulative Total</b>	<b>2,625</b>	<b>9,789</b>	<b>16,016</b>	<b>22,414</b>	<b>33,266</b>	<b>43,443</b>	<b>53,015</b>	<b>62,042</b>	<b>70,575</b>	<b>78,659</b>	<b>86,164</b>	<b>93,097</b>	<b>99,492</b>	<b>105,381</b>	<b>110,794</b>	<b>115,759</b>	<b>120,301</b>
	Emissions Source Construction																	
	Project Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536
	Backfilled Operations	16,792	16,426	16,075	15,739	15,414	15,098	14,789	14,485	14,167	14,452	14,440	14,431	14,422	14,422	14,422	14,422	14,422
<b>Total Project Emissions (Indirect + Direct)</b>	<b>17,431</b>	<b>17,049</b>	<b>16,684</b>	<b>16,333</b>	<b>15,994</b>	<b>15,663</b>	<b>15,340</b>	<b>15,023</b>	<b>14,704</b>	<b>14,989</b>	<b>14,977</b>	<b>14,967</b>	<b>14,959</b>	<b>14,959</b>	<b>14,959</b>	<b>14,959</b>	<b>14,959</b>	
Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
<b>NET GHG EMISSIONS</b>	<b>4,142</b>	<b>3,760</b>	<b>3,395</b>	<b>3,044</b>	<b>2,704</b>	<b>2,374</b>	<b>2,051</b>	<b>1,733</b>	<b>1,415</b>	<b>1,700</b>	<b>1,688</b>	<b>1,678</b>	<b>1,669</b>	<b>1,669</b>	<b>1,669</b>	<b>1,669</b>	<b>1,669</b>	
<b>Cumulative Total</b>	<b>124,442</b>	<b>128,202</b>	<b>131,597</b>	<b>134,641</b>	<b>137,345</b>	<b>139,719</b>	<b>141,770</b>	<b>143,504</b>	<b>145,218</b>	<b>146,918</b>	<b>148,606</b>	<b>150,284</b>	<b>151,953</b>	<b>153,623</b>	<b>155,292</b>	<b>156,962</b>	<b>158,631</b>	

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions with TDM and 50% Project Design Features	Emissions Source Construction	3,834	8,373	7,437	1,188													
	Project Operations				10,260	19,907	19,375	18,898	18,468	18,077	17,721	17,229	16,741	16,281	15,845	15,432	15,042	14,672
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,834</b>	<b>8,373</b>	<b>7,437</b>	<b>11,911</b>	<b>20,805</b>	<b>20,247</b>	<b>19,745</b>	<b>19,292</b>	<b>18,879</b>	<b>18,502</b>	<b>18,090</b>	<b>17,483</b>	<b>17,004</b>	<b>16,550</b>	<b>16,120</b>	<b>15,713</b>	<b>15,327</b>
	Existing Operations (2018)	1,209	1,209	1,209	7,249	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289
	<b>NET GHG EMISSIONS</b>	<b>2,625</b>	<b>7,164</b>	<b>6,228</b>	<b>4,662</b>	<b>7,516</b>	<b>6,958</b>	<b>6,456</b>	<b>6,002</b>	<b>5,589</b>	<b>5,213</b>	<b>4,701</b>	<b>4,193</b>	<b>3,714</b>	<b>3,260</b>	<b>2,831</b>	<b>2,424</b>	<b>2,037</b>
	<b>Cumulative Total</b>	<b>2,625</b>	<b>9,789</b>	<b>16,016</b>	<b>20,678</b>	<b>28,194</b>	<b>35,151</b>	<b>41,607</b>	<b>47,609</b>	<b>53,198</b>	<b>58,411</b>	<b>63,112</b>	<b>67,305</b>	<b>71,019</b>	<b>74,280</b>	<b>77,111</b>	<b>79,534</b>	<b>81,572</b>
	Emissions Source Construction																	
	Project Operations	14,319	14,004	13,676	13,360	13,053	12,752	12,458	12,168	12,152	12,140	12,129	12,120	12,113	12,113	12,113	12,113	12,113
	Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536
<b>Total Project Emissions (Indirect + Direct)</b>	<b>14,958</b>	<b>14,628</b>	<b>14,285</b>	<b>13,954</b>	<b>13,632</b>	<b>13,318</b>	<b>13,010</b>	<b>12,706</b>	<b>12,690</b>	<b>12,677</b>	<b>12,666</b>	<b>12,657</b>	<b>12,649</b>	<b>12,649</b>	<b>12,649</b>	<b>12,649</b>	<b>12,649</b>	
Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
<b>NET GHG EMISSIONS</b>	<b>1,669</b>	<b>1,339</b>	<b>995</b>	<b>665</b>	<b>343</b>	<b>29</b>	<b>(279)</b>	<b>(584)</b>	<b>(600)</b>	<b>(613)</b>	<b>(623)</b>	<b>(632)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	
<b>Cumulative Total</b>	<b>83,241</b>	<b>84,580</b>	<b>85,575</b>	<b>86,240</b>	<b>86,583</b>	<b>86,611</b>	<b>86,332</b>	<b>85,748</b>	<b>85,149</b>	<b>84,536</b>	<b>83,913</b>	<b>83,280</b>	<b>82,640</b>	<b>82,000</b>	<b>81,359</b>	<b>80,719</b>	<b>80,079</b>	

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions with TDM and 100% Project Design Features	Emissions Source Construction	3,834	8,373	7,437	1,188													
	Project Operations				10,143	19,678	19,149	18,674	18,247	17,860	17,507	17,026	16,549	16,100	15,675	15,274	14,895	14,536
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,834</b>	<b>8,373</b>	<b>7,437</b>	<b>11,795</b>	<b>20,575</b>	<b>20,020</b>	<b>19,522</b>	<b>19,071</b>	<b>18,661</b>	<b>18,288</b>	<b>17,877</b>	<b>17,291</b>	<b>16,823</b>	<b>16,380</b>	<b>15,961</b>	<b>15,566</b>	<b>15,190</b>
	Existing Operations (2018)	1,209	1,209	1,209	7,249	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289
	<b>NET GHG EMISSIONS</b>	<b>2,625</b>	<b>7,164</b>	<b>6,228</b>	<b>4,545</b>	<b>7,286</b>	<b>6,731</b>	<b>6,232</b>	<b>5,782</b>	<b>5,372</b>	<b>4,998</b>	<b>4,601</b>	<b>4,201</b>	<b>3,793</b>	<b>3,391</b>	<b>2,972</b>	<b>2,572</b>	<b>2,172</b>
	<b>Cumulative Total</b>	<b>2,625</b>	<b>9,789</b>	<b>16,016</b>	<b>20,562</b>	<b>27,848</b>	<b>34,579</b>	<b>40,811</b>	<b>46,593</b>	<b>51,965</b>	<b>56,964</b>	<b>61,461</b>	<b>65,463</b>	<b>68,996</b>	<b>72,087</b>	<b>74,759</b>	<b>77,035</b>	<b>78,936</b>
	Emissions Source Construction																	
	Project Operations	14,194	13,890	13,573	13,268	12,972	12,683	12,399	12,120	12,105	12,092	12,082	12,073	12,065	12,065	12,065	12,065	12,065
	Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536
<b>Total Project Emissions (Indirect + Direct)</b>	<b>14,833</b>	<b>14,514</b>	<b>14,181</b>	<b>13,862</b>	<b>13,551</b>	<b>13,248</b>	<b>12,951</b>	<b>12,658</b>	<b>12,642</b>	<b>12,629</b>	<b>12,618</b>	<b>12,609</b>	<b>12,602</b>	<b>12,602</b>	<b>12,602</b>	<b>12,602</b>	<b>12,602</b>	
Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
<b>NET GHG EMISSIONS</b>	<b>1,544</b>	<b>1,225</b>	<b>892</b>	<b>573</b>	<b>262</b>	<b>(41)</b>	<b>(338)</b>	<b>(631)</b>	<b>(647)</b>	<b>(660)</b>	<b>(671)</b>	<b>(680)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	
<b>Cumulative Total</b>	<b>80,480</b>	<b>81,704</b>	<b>82,597</b>	<b>83,169</b>	<b>83,432</b>	<b>83,391</b>	<b>83,052</b>	<b>82,421</b>	<b>81,774</b>	<b>81,114</b>	<b>80,443</b>	<b>79,763</b>	<b>79,075</b>	<b>78,387</b>	<b>77,699</b>	<b>77,012</b>	<b>76,324</b>	

Notes: Units are in metric tons CO<sub>2</sub>e per year

## **Variant Emissions Summary**

Net GHG Emissions Summary: Variant

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions without TDM and without Project Design Features	Emissions Source																		
	Construction	3,860	8,373	7,437	1,188														
	Project Operations				11,996	23,244	22,595	22,014	21,492	21,020	20,593	20,033	19,480	18,961	18,473	18,015	17,583	17,177	
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655	
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,860</b>	<b>8,373</b>	<b>7,437</b>	<b>13,647</b>	<b>24,141</b>	<b>23,466</b>	<b>22,861</b>	<b>22,316</b>	<b>21,822</b>	<b>21,373</b>	<b>20,795</b>	<b>20,222</b>	<b>19,684</b>	<b>19,178</b>	<b>18,702</b>	<b>18,254</b>	<b>17,831</b>	
	Existing Operations (2018)	1,269	1,269	1,269	7,309	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
	<b>NET GHG EMISSIONS</b>	<b>2,591</b>	<b>7,105</b>	<b>6,168</b>	<b>6,339</b>	<b>10,793</b>	<b>10,118</b>	<b>9,513</b>	<b>8,968</b>	<b>8,474</b>	<b>8,025</b>	<b>7,446</b>	<b>6,873</b>	<b>6,336</b>	<b>5,830</b>	<b>5,354</b>	<b>4,905</b>	<b>4,483</b>	
	<b>Cumulative Total</b>	<b>2,591</b>	<b>9,696</b>	<b>15,864</b>	<b>22,203</b>	<b>32,996</b>	<b>43,114</b>	<b>52,626</b>	<b>61,594</b>	<b>70,068</b>	<b>78,092</b>	<b>85,538</b>	<b>92,412</b>	<b>98,747</b>	<b>104,577</b>	<b>109,931</b>	<b>114,836</b>	<b>119,319</b>	
	Emissions Source																		
	Construction																		
Project Operations	16,792	16,426	16,075	15,739	15,414	15,098	14,789	14,485	14,167	13,852	13,537	13,222	12,907	12,592	12,277	11,962	11,647		
Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536		
<b>Total Project Emissions (Indirect + Direct)</b>	<b>17,431</b>	<b>17,049</b>	<b>16,684</b>	<b>16,333</b>	<b>15,994</b>	<b>15,663</b>	<b>15,340</b>	<b>15,023</b>	<b>14,704</b>	<b>14,389</b>	<b>14,074</b>	<b>13,759</b>	<b>13,444</b>	<b>13,129</b>	<b>12,814</b>	<b>12,500</b>	<b>12,185</b>		
Existing Operations (2018)	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349		
<b>NET GHG EMISSIONS</b>	<b>4,082</b>	<b>3,701</b>	<b>3,335</b>	<b>2,985</b>	<b>2,645</b>	<b>2,315</b>	<b>1,992</b>	<b>1,674</b>	<b>1,355</b>	<b>1,037</b>	<b>719</b>	<b>401</b>	<b>85</b>	<b>-463</b>	<b>-927</b>	<b>-1,391</b>	<b>-1,855</b>		
<b>Cumulative Total</b>	<b>123,402</b>	<b>127,102</b>	<b>130,438</b>	<b>133,423</b>	<b>136,068</b>	<b>138,382</b>	<b>140,374</b>	<b>142,048</b>	<b>143,704</b>	<b>145,344</b>	<b>146,973</b>	<b>148,591</b>	<b>150,202</b>	<b>151,812</b>	<b>153,422</b>	<b>155,032</b>	<b>156,643</b>		

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions with TDM and 50% Project Design Features	Emissions Source																	
	Construction	3,860	8,373	7,437	1,188													
	Project Operations				10,260	19,907	19,375	18,898	18,468	18,077	17,721	17,229	16,741	16,281	15,845	15,432	15,042	14,672
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,860</b>	<b>8,373</b>	<b>7,437</b>	<b>11,911</b>	<b>20,805</b>	<b>20,247</b>	<b>19,745</b>	<b>19,292</b>	<b>18,879</b>	<b>18,502</b>	<b>17,990</b>	<b>17,483</b>	<b>17,004</b>	<b>16,550</b>	<b>16,120</b>	<b>15,713</b>	<b>15,327</b>
	Existing Operations (2018)	1,269	1,269	1,269	7,309	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
	<b>NET GHG EMISSIONS</b>	<b>2,591</b>	<b>7,105</b>	<b>6,168</b>	<b>4,602</b>	<b>7,456</b>	<b>6,898</b>	<b>6,396</b>	<b>5,943</b>	<b>5,530</b>	<b>5,153</b>	<b>4,811</b>	<b>4,434</b>	<b>4,055</b>	<b>3,676</b>	<b>3,297</b>	<b>2,918</b>	<b>2,539</b>
	<b>Cumulative Total</b>	<b>2,591</b>	<b>9,696</b>	<b>15,864</b>	<b>20,467</b>	<b>27,923</b>	<b>34,821</b>	<b>41,218</b>	<b>47,161</b>	<b>52,691</b>	<b>57,844</b>	<b>62,486</b>	<b>66,620</b>	<b>70,275</b>	<b>73,476</b>	<b>76,248</b>	<b>78,612</b>	<b>80,590</b>
	Emissions Source																	
	Construction																	
Project Operations	14,319	14,004	13,676	13,360	13,053	12,752	12,458	12,168	11,882	11,600	11,322	11,048	10,778	10,511	10,248	10,000	9,756	
Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536	
<b>Total Project Emissions (Indirect + Direct)</b>	<b>14,958</b>	<b>14,628</b>	<b>14,285</b>	<b>13,954</b>	<b>13,632</b>	<b>13,318</b>	<b>13,010</b>	<b>12,706</b>	<b>12,406</b>	<b>12,109</b>	<b>11,816</b>	<b>11,527</b>	<b>11,242</b>	<b>10,961</b>	<b>10,684</b>	<b>10,411</b>	<b>10,142</b>	
Existing Operations (2018)	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	
<b>NET GHG EMISSIONS</b>	<b>1,610</b>	<b>1,280</b>	<b>936</b>	<b>605</b>	<b>284</b>	<b>(30)</b>	<b>(339)</b>	<b>(643)</b>	<b>(659)</b>	<b>(672)</b>	<b>(683)</b>	<b>(692)</b>	<b>(699)</b>	<b>(709)</b>	<b>(717)</b>	<b>(724)</b>	<b>(730)</b>	
<b>Cumulative Total</b>	<b>82,200</b>	<b>83,480</b>	<b>84,416</b>	<b>85,021</b>	<b>85,305</b>	<b>85,275</b>	<b>84,936</b>	<b>84,293</b>	<b>83,634</b>	<b>82,962</b>	<b>82,279</b>	<b>81,588</b>	<b>80,888</b>	<b>80,189</b>	<b>79,489</b>	<b>78,790</b>	<b>78,090</b>	

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions with TDM and 100% Project Design Features	Emissions Source																	
	Construction	3,860	8,373	7,437	1,188													
	Project Operations				10,143	19,678	19,149	18,674	18,247	17,860	17,507	17,026	16,549	16,100	15,675	15,274	14,895	14,536
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project (Indirect + Direct)</b>	<b>3,860</b>	<b>8,373</b>	<b>7,437</b>	<b>11,795</b>	<b>20,575</b>	<b>20,020</b>	<b>19,522</b>	<b>19,071</b>	<b>18,661</b>	<b>18,288</b>	<b>17,787</b>	<b>17,291</b>	<b>16,823</b>	<b>16,380</b>	<b>15,961</b>	<b>15,566</b>	<b>15,190</b>
	Existing Operations (2018)	1,269	1,269	1,269	7,309	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
	<b>NET GHG EMISSIONS</b>	<b>2,591</b>	<b>7,105</b>	<b>6,168</b>	<b>4,486</b>	<b>7,227</b>	<b>6,672</b>	<b>6,173</b>	<b>5,723</b>	<b>5,313</b>	<b>4,939</b>	<b>4,438</b>	<b>3,942</b>	<b>3,474</b>	<b>3,031</b>	<b>2,613</b>	<b>2,217</b>	<b>1,842</b>
	<b>Cumulative Total</b>	<b>2,591</b>	<b>9,696</b>	<b>15,864</b>	<b>20,350</b>	<b>27,577</b>	<b>34,249</b>	<b>40,422</b>	<b>46,145</b>	<b>51,458</b>	<b>56,397</b>	<b>60,835</b>	<b>64,777</b>	<b>68,252</b>	<b>71,283</b>	<b>73,896</b>	<b>76,113</b>	<b>77,955</b>
	Emissions Source																	
	Construction																	
Project Operations	14,194	13,890	13,573	13,268	12,972	12,683	12,399	12,120	11,845	11,574	11,307	11,044	10,785	10,530	10,279	10,032	9,789	
Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536	
<b>Total Project (Indirect + Direct)</b>	<b>14,833</b>	<b>14,514</b>	<b>14,181</b>	<b>13,862</b>	<b>13,551</b>	<b>13,248</b>	<b>12,951</b>	<b>12,658</b>	<b>12,369</b>	<b>12,084</b>	<b>11,802</b>	<b>11,523</b>	<b>11,248</b>	<b>10,976</b>	<b>10,707</b>	<b>10,441</b>	<b>10,178</b>	
Existing Operations (2018)	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	
<b>NET GHG EMISSIONS</b>	<b>1,484</b>	<b>1,165</b>	<b>833</b>	<b>514</b>	<b>203</b>	<b>(100)</b>	<b>(397)</b>	<b>(690)</b>	<b>(707)</b>	<b>(719)</b>	<b>(730)</b>	<b>(739)</b>	<b>(747)</b>	<b>(754)</b>	<b>(760)</b>	<b>(766)</b>	<b>(771)</b>	
<b>Cumulative Total</b>	<b>79,439</b>	<b>80,605</b>	<b>81,437</b>	<b>81,951</b>	<b>82,154</b>	<b>82,054</b>	<b>81,656</b>	<b>80,966</b>	<b>80,259</b>	<b>79,540</b>	<b>78,810</b>	<b>78,070</b>	<b>77,323</b>	<b>76,576</b>	<b>75,829</b>	<b>75,082</b>	<b>74,335</b>	

Notes: Units are in metric tons CO<sub>2</sub>e per year



## **Baseline Emissions Summary**

**Baseline Emissions**

Baseline Operational Annual Emissions	
Four components make up the baseline operation's emissions:	
1	Existing On-Site Buildings
2	Existing LA Clippers Facilities (Organization Office)
3	Existing LA Clippers Games at the Staples Center
4	Existing Market-Shifted Events

Baseline Operational Year 2018

Total Baseline Emissions (MT CO <sub>2</sub> e/year)		
Emissions Source	Proposed Project	Variants
Area	0.00	1.35
Energy	2,827.87	2,835.95
Mobile	9,130.12	9,176.97
Waste	281.51	282.82
Water	1,049.78	1,051.44
<b>Total</b>	<b>13,289.29</b>	<b>13,348.53</b>

Component 1 Existing Onsite Buildings (MT CO <sub>2</sub> e/year)		
Emission Source	Proposed Project	Variants
Area	0.00	1.35
Energy	211.51	219.59
Mobile	924.83	971.67
Waste	35.51	36.82
Water	37.56	39.21
<b>Total</b>	<b>1,209.41</b>	<b>1,268.65</b>

Component 2a Existing LA Clippers Team Offices (MT CO <sub>2</sub> e/year)		
Emission Source	MT per year	
Area	0.00	
Energy	115.24	
Mobile	211.54	
Waste	9.29	
Water	28.39	
<b>Total</b>	<b>364.46</b>	

Component 3 Existing Clippers Games at Staples Center (MT CO <sub>2</sub> e/year)		
Emission Source	MT per year	
Area	-	
Energy	998.11	
Mobile	5,363.75	
Waste	122.45	
Water	486.81	
<b>Total</b>	<b>6,971.12</b>	

Component 4 Market-Shifted Events (MT CO <sub>2</sub> e/year)		
Emission Source	MT per year	
Mobile	2,630.01	
Area	-	
Energy	1,503.00	
Waste	114.26	
Water	497.02	
<b>Total</b>	<b>4,744.29</b>	

Assumptions:	
LA Clippers Games account for 21% of the Staples Center Emissions.	
Emissions from market-shifted events based on GHG emissions per attendee basis.	
424,768	Market shifted attendees at proposed IBEC Project (non-NBA events)

Number of Events at Staples Center		
Event	Number of Events	Percent
LA Clippers	44	20.6%
Lakers	44	20.6%
Kings	44	20.6%
Sparks	17	7.9%
Concerts	32	15.0%
Family Shows	22	10.3%
Other	11	5.1%
<b>Total</b>	<b>214.00</b>	<b>100%</b>

Total GHG Emissions from Other Los Angeles Area Venues		
Emission Source	MT CO <sub>2</sub> e/year	MT CO <sub>2</sub> e/year/Attendee
Area	0.00	-
Energy	16,333.05	0.003538
Mobile	-	-
Waste	1241.69	0.00
Water	5401.09	0.00
<b>Total</b>	<b>22,975.84</b>	<b>0.004977509</b>

The Forum	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	1,116.25
Mobile	-
Waste	224.47
Water	712.48
<b>Total</b>	<b>2,053.20</b>

Honda Center	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	10,362.34
Mobile	-
Waste	421.68
Water	2,320.93
<b>Total</b>	<b>13,104.95</b>

Staples Center	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	4,854.46
Mobile	-
Waste	595.55
Water	2,367.68
<b>Total</b>	<b>7,817.69</b>

## Construction Emissions Summary

**Construction Emissions for Proposed IBEC Project and Variants**

<b>Construction Emissions (MT CO<sub>2</sub>e)</b>		
<b>Year</b>	<b>Proposed Project</b>	<b>Variants</b>
2021	3,834.45	3,860.05
2022	8,373.22	8,373.22
2023	7,436.92	7,436.92
2024	1,188.39	1,188.39
<b>Total</b>	<b>20,832.98</b>	<b>20,858.58</b>

Notes: Units are in metric tons CO<sub>2</sub>e per year

<b>Proposed Project</b>	<b>Construction of Arena + Ancillary Land Uses</b>	<b>Construction of Parking Garages</b>
<b>Year</b>	<b>MT CO<sub>2</sub>e</b>	
2021	1749.51	2084.94
2022	5630.46	2742.76
2023	4773.87	2663.05
2024	717.04	471.35
<b>Total</b>	<b>12,870.88</b>	<b>7,962.10</b>

**Removal of additional buildings for the Variant:**

<b>Variant</b>	<b>GHG Emissions (MT CO<sub>2</sub>e)</b>
2021	25.6045

Notes:

Assumes removal of additional buildings occurs in 2021.

Construction of arena + ancillary land uses and parking garages overlap in 2021 through 2024.

## **Backfill Operational Emissions**

Backfilled Operational Emissions

Total Backfilled Emissions by Year

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Clippers Event Nights + Office	925.90	897.69	871.63	847.09	823.87	801.75	780.61	761.05	741.62	722.96	704.99	687.66	670.93	654.75	639.05

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Clippers Event Nights + Office	623.77	608.84	594.22	579.85	565.67	551.66	537.76	537.35	537.02	536.75	536.53	536.34	536.34	536.34	536.34	536.34

Clippers Event Days Backfilled at Staples

7

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	130.60	125.90	121.20	116.50	111.80	107.10	102.40	97.70	93.00	88.30	83.61	78.91	74.21	69.51	64.81
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	370.76	355.94	343.25	332.10	322.26	313.52	305.77	299.59	293.54	288.26	283.67	279.73	276.37	273.58	271.27
Solid Waste	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48
Water	64.15	61.93	59.72	57.50	55.28	53.07	50.85	48.64	46.42	44.20	41.99	39.77	37.55	35.34	33.12
<b>Total</b>	<b>584.99</b>	<b>563.25</b>	<b>543.65</b>	<b>525.58</b>	<b>508.82</b>	<b>493.17</b>	<b>478.50</b>	<b>465.41</b>	<b>452.45</b>	<b>440.25</b>	<b>428.74</b>	<b>417.89</b>	<b>407.62</b>	<b>397.91</b>	<b>388.68</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	60.11	55.41	50.71	46.01	41.31	36.62	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	269.36	267.81	266.58	265.59	264.79	264.16	263.65	263.23	262.90	262.64	262.41	262.22	262.22	262.22	262.22	262.22
Solid Waste	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48
Water	30.90	28.69	26.47	24.26	22.04	19.82	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61
<b>Total</b>	<b>379.86</b>	<b>371.40</b>	<b>363.25</b>	<b>355.34</b>	<b>347.63</b>	<b>340.08</b>	<b>332.65</b>	<b>332.24</b>	<b>331.91</b>	<b>331.64</b>	<b>331.42</b>	<b>331.23</b>	<b>331.23</b>	<b>331.23</b>	<b>331.23</b>	<b>331.23</b>

Backfilled Office

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	92.58	88.80	85.03	81.25	77.47	73.70	69.92	66.14	62.36	58.59	54.81	51.03	47.26	43.48	39.70
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	215.89	214.07	212.26	210.44	208.63	206.81	205.00	203.18	201.36	199.55	197.73	195.92	194.10	192.28	190.47
Solid Waste	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29
Water	23.15	22.27	21.40	20.53	19.65	18.78	17.91	17.03	16.16	15.29	14.41	13.54	12.67	11.79	10.92
<b>Total</b>	<b>340.91</b>	<b>334.44</b>	<b>327.98</b>	<b>321.51</b>	<b>315.04</b>	<b>308.58</b>	<b>302.11</b>	<b>295.64</b>	<b>289.18</b>	<b>282.71</b>	<b>276.24</b>	<b>269.78</b>	<b>263.31</b>	<b>256.84</b>	<b>250.38</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	35.92	32.15	28.37	24.59	20.82	17.04	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	188.65	186.84	185.02	183.20	181.39	179.57	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76
Solid Waste	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29
Water	10.05	9.17	8.30	7.43	6.55	5.68	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80
<b>Total</b>	<b>243.91</b>	<b>237.44</b>	<b>230.98</b>	<b>224.51</b>	<b>218.04</b>	<b>211.58</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>

Note:  
Units are in MT CO<sub>2</sub>e.

# **IBEC Project Operations Emissions without GHG Reduction Measures**

**Proposed IBEC Project Operational Emissions**

Project Condition: Without TDM and without LEED Gold Project Design Features

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,839.37	5,600.87	5,524.82	5,448.78	5,372.73	5,296.69	5,220.64	4,945.77	4,670.90	4,396.03	4,121.16	3,846.29	3,571.42	3,296.55	3,021.68
Area	0.08	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	8,441.55	16,214.19	15,642.69	15,139.75	14,695.91	14,301.55	13,951.27	13,672.91	13,400.32	13,162.21	12,954.84	12,776.87	12,626.02	12,500.33	12,396.28
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	68.08	134.54	132.94	131.35	129.76	128.16	126.57	120.73	114.88	109.04	103.20	97.36	91.51	85.67	79.83
<b>Total</b>	<b>11,996.05</b>	<b>23,243.69</b>	<b>22,594.54</b>	<b>22,013.97</b>	<b>21,492.49</b>	<b>21,020.50</b>	<b>20,592.58</b>	<b>20,033.50</b>	<b>19,480.20</b>	<b>18,961.37</b>	<b>18,473.29</b>	<b>18,014.60</b>	<b>17,583.04</b>	<b>17,176.64</b>	<b>16,791.87</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,746.81	2,471.94	2,197.06	1,922.19	1,647.32	1,372.45	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	12,310.74	12,240.88	12,185.56	12,141.06	12,105.53	12,077.37	12,054.18	12,035.94	12,021.45	12,009.74	12,000.01	11,991.85	11,991.85	11,991.85	11,991.85	11,991.85
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	73.98	68.14	62.30	56.46	50.61	44.77	38.93	38.93	38.93	38.93	38.93	38.93	38.93	38.93	38.93	38.93
<b>Total</b>	<b>16,425.62</b>	<b>16,075.05</b>	<b>15,739.01</b>	<b>15,413.80</b>	<b>15,097.56</b>	<b>14,788.68</b>	<b>14,484.78</b>	<b>14,466.54</b>	<b>14,452.05</b>	<b>14,440.34</b>	<b>14,430.61</b>	<b>14,422.45</b>	<b>14,422.45</b>	<b>14,422.45</b>	<b>14,422.45</b>	<b>14,422.45</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Electricity emission factors associated with the project were adjusted for future years, consistent with Renewables Portfolio Standards and based on information provided in SCE 2016 and 2017 Sustainability Reports.

Units are in MT CO<sub>2</sub>e.



**IBEC Project Operations with  
GHG Reduction Measures**

**Proposed IBEC Project Operational Emissions**

Project Condition: With TDM and 100% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,632.60	5,192.98	5,122.46	5,051.94	4,981.42	4,910.89	4,840.37	4,585.46	4,330.55	4,075.64	3,820.73	3,565.82	3,310.91	3,056.00	2,801.09
Area	0.08	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	6,821.60	13,107.21	12,649.79	12,247.04	11,891.41	11,575.24	11,294.21	11,071.35	10,853.10	10,662.33	10,496.08	10,353.27	10,232.68	10,132.14	10,048.86
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	42.17	83.35	82.38	81.40	80.43	79.45	78.48	74.89	71.31	67.72	64.13	60.55	56.96	53.37	49.79
<b>Total</b>	<b>10,143.42</b>	<b>19,677.63</b>	<b>19,148.71</b>	<b>18,674.47</b>	<b>18,247.34</b>	<b>17,859.67</b>	<b>17,507.15</b>	<b>17,025.79</b>	<b>16,549.05</b>	<b>16,099.78</b>	<b>15,675.03</b>	<b>15,273.73</b>	<b>14,894.64</b>	<b>14,535.61</b>	<b>14,193.83</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,546.18	2,291.27	2,036.37	1,781.46	1,526.55	1,271.64	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	10,003.74	9,944.63	9,898.33	9,860.66	9,830.13	9,805.48	9,784.80	9,769.17	9,756.53	9,746.11	9,737.27	9,729.67	9,729.67	9,729.67	9,729.67	9,729.67
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	46.20	42.61	39.03	35.44	31.85	28.27	24.68	24.68	24.68	24.68	24.68	24.68	24.68	24.68	24.68	24.68
<b>Total</b>	<b>13,890.21</b>	<b>13,572.61</b>	<b>13,267.81</b>	<b>12,971.64</b>	<b>12,682.62</b>	<b>12,399.47</b>	<b>12,120.29</b>	<b>12,104.67</b>	<b>12,092.03</b>	<b>12,081.60</b>	<b>12,072.76</b>	<b>12,065.17</b>	<b>12,065.17</b>	<b>12,065.17</b>	<b>12,065.17</b>	<b>12,065.17</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Electricity emission factors associated with the project were adjusted for future years, consistent with Renewables Portfolio Standards and based on information provided in SCE 2016 and 2017 Sustainability Reports.

Units are in MT CO<sub>2</sub>e.

**IBEC Project with Local, Direct  
GHG Reduction Measures**

**Reduction Achieved through 50% of LEED Gold Project Design Features**

50%

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	103.38	203.94	201.18	198.42	195.66	192.90	190.14	180.16	170.17	160.19	150.21	140.23	130.25	120.27	110.29
Water	12.96	25.59	25.28	24.97	24.66	24.36	24.05	22.92	21.79	20.66	19.53	18.40	17.28	16.15	15.02
<b>Total</b>	<b>116.34</b>	<b>229.54</b>	<b>226.47</b>	<b>223.39</b>	<b>220.32</b>	<b>217.25</b>	<b>214.18</b>	<b>203.07</b>	<b>191.96</b>	<b>180.85</b>	<b>169.75</b>	<b>158.64</b>	<b>147.53</b>	<b>136.42</b>	<b>125.31</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	100.31	90.33	80.35	70.37	60.39	50.41	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43
Water	13.89	12.76	11.64	10.51	9.38	8.25	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12
<b>Total</b>	<b>114.20</b>	<b>103.09</b>	<b>91.98</b>	<b>80.88</b>	<b>69.77</b>	<b>58.66</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>

**Proposed IBEC Project Operational Emissions**

Total Reductions Achieved Through LEED

**7,510.21**

Project Condition: With TDM and 50% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,735.98	5,396.92	5,323.64	5,250.36	5,177.07	5,103.79	5,030.51	4,765.62	4,500.73	4,235.84	3,970.95	3,706.06	3,441.17	3,176.28	2,911.39
Area	0.04	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	6,821.60	13,107.21	12,649.79	12,247.04	11,891.41	11,575.24	11,294.21	11,071.35	10,853.10	10,662.33	10,496.08	10,353.27	10,232.68	10,132.14	10,048.86
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	55.13	108.94	107.66	106.38	105.09	103.81	102.53	97.81	93.10	88.38	83.67	78.95	74.24	69.52	64.81
<b>Total</b>	<b>10,259.72</b>	<b>19,907.17</b>	<b>19,375.18</b>	<b>18,897.86</b>	<b>18,467.67</b>	<b>18,076.93</b>	<b>17,721.33</b>	<b>17,228.86</b>	<b>16,741.01</b>	<b>16,280.64</b>	<b>15,844.78</b>	<b>15,432.37</b>	<b>15,042.17</b>	<b>14,672.03</b>	<b>14,319.14</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,646.50	2,381.61	2,116.71	1,851.82	1,586.93	1,322.04	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	10,003.74	9,944.63	9,898.33	9,860.66	9,830.13	9,805.48	9,784.80	9,769.17	9,756.53	9,746.11	9,737.27	9,729.67	9,729.67	9,729.67	9,729.67	9,729.67
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	60.09	55.38	50.66	45.95	41.23	36.52	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
<b>Total</b>	<b>14,004.41</b>	<b>13,675.71</b>	<b>13,359.79</b>	<b>13,052.52</b>	<b>12,752.38</b>	<b>12,458.13</b>	<b>12,167.84</b>	<b>12,152.22</b>	<b>12,139.58</b>	<b>12,129.15</b>	<b>12,120.31</b>	<b>12,112.72</b>	<b>12,112.72</b>	<b>12,112.72</b>	<b>12,112.72</b>	<b>12,112.72</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Electricity emission factors associated with the project were adjusted for future years, consistent with Renewables Portfolio Standards and based on information provided in SCE 2016 and 2017 Sustainability Reports.

Units are in MT CO<sub>2</sub>e.

## Potential Additional Local, Direct Measures

Potential Local Direct Measures

Additional GHG Reductions from Solar PV on East Parking Lot  
Renewable Energy Generated 850,000 kWh per year

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity)	97.99	192.66	189.40	186.15	182.90	179.64	176.39	164.63	152.87	141.11	129.35	117.59	105.83	94.08	82.32
<b>Total</b>	<b>97.99</b>	<b>192.66</b>	<b>189.40</b>	<b>186.15</b>	<b>182.90</b>	<b>179.64</b>	<b>176.39</b>	<b>164.63</b>	<b>152.87</b>	<b>141.11</b>	<b>129.35</b>	<b>117.59</b>	<b>105.83</b>	<b>94.08</b>	<b>82.32</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity)	70.56	58.80	47.04	35.28	23.52	11.76	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>70.56</b>	<b>58.80</b>	<b>47.04</b>	<b>35.28</b>	<b>23.52</b>	<b>11.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed iBEC Project is anticipated to be July 1, 2024). 50%  
Units are in MT CO<sub>2</sub>e.

<b>Total Amount of Reductions Achieved Over Project Lifetime</b>	<b>2,439.88 MT CO<sub>2</sub>e</b>
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Source: CAPCOA Quantification Report Measure AE-2.  
<http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>  
Since zero GHG emissions are associated with electricity generation from PV systems, the GHG emissions reductions from this mitigation measure are equivalent to the emissions that would have been produced had electricity been supplied by the local utility.

Potential Additional GHG Reductions from Participation in SCE Green Rate (100%)

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity)	2,124.23	4,176.26	4,105.73	4,035.21	3,964.69	3,894.17	3,823.64	3,568.73	3,313.83	3,058.92	2,804.01	2,549.10	2,294.19	2,039.28	1,784.37
<b>Total</b>															

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity)	1,529.46	1,274.55	1,019.64	764.73	509.82	254.91	-	-	-	-	-	-	-	-	-	-
<b>Total</b>																

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed iBEC Project is anticipated to be July 1, 2024). 50%  
Units are in MT CO<sub>2</sub>e.

<b>Total Amount of Reductions Achieved Over Project Lifetime</b>	<b>52,889.44 MT CO<sub>2</sub>e</b>
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Potential Additional GHG Reductions from Participation in Renewable Natural Gas (100%)

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity)	508.36	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73
<b>Total</b>															

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity)	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73
<b>Total</b>																

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed iBEC Project is anticipated to be July 1, 2024). 50%  
Units are in MT CO<sub>2</sub>e.

<b>Total Amount of Reductions Achieved Over Project Lifetime</b>	<b>31,010.18 MT CO<sub>2</sub>e</b>
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## **Mobile Source Emissions**





Mobile Source Emissions

IBEC Maximum Event Attendees - Other Vehicles (Shuttles, Vanpools, Charter Coaches, Minibuses)

Project Condition (Maximum Event Attendees) w/0 Transportation Demand Management Measures		Estimated Annual Trips				
Land Use	Size	Weekday		Weekend		Total
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	2,912	0	1,828	0	4,740
<b>Total</b>		<b>2,912</b>	<b>0</b>	<b>1,828</b>	<b>0</b>	<b>4,740</b>

Project Condition (Maximum Event Attendees) w/0 Transportation Demand Management Measures		Estimated Annual Trips				
Land Use	Size	Weekday		Weekend		Total
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	3,334	0	2,050	0	5,424
Arena (attendees)	Varies	6,686	0	4,238	0	10,914
LA Clippers Organization Office	279 EMW	0	0	0	0	0
LA Clippers Team Practice & Training Facility	54 EMW	0	0	0	0	0
Sports Medicine Clinic	25 TSE	0	0	0	0	0
Community Space	15 TSE	0	0	0	0	0
Full-Service Plaza Restaurant/Bar	7 TSE	0	0	0	0	0
Full-Service Rooftop Restaurant/Lounge	8 TSE	0	0	0	0	0
Coffee Shop	5 TSE	0	0	0	0	0
Quick-Service Restaurant (no drive thru)	4 TSE	0	0	0	0	0
LA Clippers Team Store	7 TSE	0	0	0	0	0
Other General Retail & Service	17 TSE	0	0	0	0	0
Hotel (no full service, no restaurant)	193 RM	0	0	0	0	0
<b>Total</b>		<b>10,020</b>	<b>0</b>	<b>6,318</b>	<b>0</b>	<b>16,338</b>

Year	GHG Emissions without TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	108.3505	106.754886	105.703329	104.6521725	103.6019161	102.5498552	101.4987	100.942973	100.3872436	99.83151417	99.27576478	98.72005538	98.501183	98.28227	98.063377	97.844484	97.625591	97.406734	97.389678	97.240821	97.112565	96.984308	96.85613	96.7283	96.70529	96.61229	96.519284
<b>Total</b>	<b>108.36</b>	<b>106.75</b>	<b>105.70</b>	<b>104.65</b>	<b>103.60</b>	<b>102.55</b>	<b>101.50</b>	<b>100.94</b>	<b>100.39</b>	<b>99.83</b>	<b>99.28</b>	<b>98.72</b>	<b>98.50</b>	<b>98.28</b>	<b>98.06</b>	<b>97.84</b>	<b>97.63</b>	<b>97.58</b>	<b>97.37</b>	<b>97.24</b>	<b>97.11</b>	<b>96.98</b>	<b>96.89</b>	<b>96.88</b>	<b>96.71</b>	<b>96.61</b>	<b>96.52</b>

Year	GHG Emissions with TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	123.95971	122.155844	120.5367227	118.7538769	116.85510861	114.7361933	116.14535	115.5094279	114.873561	114.2376808	113.6016575	112.9657343	112.7525	112.46477	112.21429	111.96381	111.71333	111.56659	111.41981	111.27304	111.12628	110.97951	110.8731	110.7667	110.6602	110.5538	110.44738
Arena (attendees)	117.11235	115.3781312	114.2420617	113.1059592	111.9699227	110.8338333	105.49776	105.0971625	104.6965412	107.855193	107.252266	106.6496773	106.4581	106.22153	105.98455	105.74838	105.5118	105.37318	105.23457	105.05595	104.85793	104.81879	104.7182	104.6177	104.5172	104.4166	104.316128
<b>Total</b>	<b>241.11</b>	<b>237.54</b>	<b>235.20</b>	<b>232.86</b>	<b>230.52</b>	<b>228.18</b>	<b>225.84</b>	<b>224.61</b>	<b>223.37</b>	<b>222.13</b>	<b>220.98</b>	<b>219.66</b>	<b>219.17</b>	<b>218.69</b>	<b>218.20</b>	<b>217.71</b>	<b>217.23</b>	<b>216.94</b>	<b>216.65</b>	<b>216.37</b>	<b>216.08</b>	<b>215.89</b>	<b>215.59</b>	<b>215.38</b>	<b>215.18</b>	<b>214.97</b>	<b>214.76</b>

Conversion Factors	
gram	MT
	1000000

Assumptions	miles	Assumptions
Attendees Trip Lengths (mi)	6.0	miles; Commercial-Nomadic CalEEMod Defaults
Employee Trip Lengths (mi)	1.47	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	GHG Emissions with TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
EMFAC2014 CO <sub>2</sub> Emission Factors (g/m)	1,555.14	1,532.11	1,517,025.887	1,501,939.966	1,486,854.044	1,471,748.122	1,456,648	1,448,706.521	1,440,730.841	1,432,755.162	1,424,779.482	1,416,803	1,413,662.3	1,410,520.8	1,407,379.3	1,404,237.8	1,401,101	1,399,255.6	1,397,414.5	1,395,574.2	1,393,733.5	1,391,893	1,390,052.8	1,388,213	1,387,828	1,386,554	1,385,22
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/m)	0.001551	0.001532112	0.001517026	0.00150194	0.001486654	0.001471768	0.0014567	0.001448707	0.001440731	0.001432755	0.001424779	0.001416804	0.00141437	0.0014105	0.0014074	0.0014042	0.0014011	0.0013983	0.0013954	0.0013926	0.0013897	0.0013919	0.001389	0.001387	0.001385	0.001382	0.001382

Mobile Sources - Delivery Trips

Trip Type	Daily Delivery Trips	Total Vehicle Trips per Year	Trip Length	Total VMT	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Delivery Trips	50	25,987	6.9	179,307.43	132.96	131.19	130.02	128.85	127.68	126.51	125.35	124.78	124.21	123.65	123.08	122.51	122.49	122.47	122.45

Notes:

Daily delivery trips assumes 5 days per week for 52 weeks per year  
 CalEEMod Default Trip Length for Commercial-Nonwork trips in Los Angeles County  
 Delivery trips associated with the main event center are assumed to be 8 per day.  
 Delivery trips for all other ancillary land uses based NCHRP Synthesis 298: 2001

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
122.43	122.41	122.61	122.82	123.02	123.22	123.43	123.81	124.20	124.58	124.97	125.36	125.36	125.36	125.36	125.36

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
EMFAC2014 CO <sub>2</sub> Emission Factors (gram per mile)	741.4965416	731.6247535	725.1112381	718.5977	712.0842	705.5707	699.0572	695.8966	692.736	689.5755	686.4149	683.2543	683.1398648	683.0254	682.9109
EMFAC2014 CO <sub>2</sub> Emission Factors (MT per mile)	0.000741497	0.000731625	0.000725111	0.000719	0.000712	0.000706	0.000699	0.000696	0.000693	0.00069	0.000686	0.000683	0.00068314	0.000683	0.000683

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
682.7964676	682.6820018	683.8153	684.9487	686.082	687.2153	688.3487	690.5012	692.6538	694.8063	696.9589	699.1114719	699.1115	699.1115	699.1115	699.1115
0.000682796	0.000682682	0.000684	0.000685	0.000686	0.000687	0.000688	0.000691	0.000693	0.000695	0.000697	0.0006991111	0.000699	0.000699	0.000699	0.000699

Conversion Factors	
gram	MT
1000000	1

Delivery Trips Assumptions				
Land Use	Truck Trip Rate per 1,000 SF	Land Use (SF)	1000 SF	Trips
Fast Food	0.77	9,000.00	9.00	6.93
Hotel	0.034	217,800.00	217.80	7.41
Quality Restaurant	1.209	15,000.00	15.00	18.14
Retail	0.396	24,000.00	24.00	9.50

Source: NCHRP 2001

Mobile Source Emissions  
 Exhibit 47: NBA Check Rigs with Medium Converter

Existing (Average Event Activity)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	2.97	0	0	0	0	0.00
Arena (patrons)	25,927	0	0	0	0	0.936
<b>Total</b>	<b>29,498</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>08,626</b>

Conversion Factors	
gram	1000000
BTU	1

Assumptions	Assumptions
Attenuation Trip Length (mi)	37.80 mi as to 800 cone data to Shaker
Attenuation Trip Length (mi)	14.7 mi as to 800 cone data to Shaker
Attenuation Trip Length (mi)	5.7 mi as to 800 cone data to Shaker

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025					
BW-AC2004 CO <sub>2</sub> Emission Factors (g/mi)	263.9535	272.597349	262.8941774	254.940292	246.805814	240.1144113	234.1765	229.4492623	224.8132	220.75942	217.29191	214.23204	211.66305	209.52259	207.75117	206.29576	205.10785	204.16262	203.40212	202.79459	202.31246	201.91595	201.59992	201.3474	201.1426	200.9716	200.8273
BW-AC2014 CO <sub>2</sub> Emission Factors (g/mi)	0.093204	0.0932295	0.09325264	0.09327491	0.09329658	0.09331764	0.0933381	0.09335808	0.09337746	0.09339625	0.09341445	0.09343206	0.09344908	0.09346551	0.09348135	0.09349659	0.09351124	0.09352529	0.09353875	0.09355162	0.09356391	0.09357562	0.09358675	0.0935973	0.09360734	0.09361678	0.09362565

Event Report: GHG Emissions																											
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
26.08644338	24.028192	23.228208	22.470227	21.654039	21.212838	20.688706	20.277922	19.881371	19.504813	19.153413	18.833028	18.539797	18.268933	18.025611	17.80493	17.60287	17.41559	17.24029	17.07537	16.92029	16.77459	16.63787	16.50887	16.38627	16.26987	16.15947	16.05487
345.6776789	331.85342	320.02836	308.2763	300.45439	292.33026	285.07933	278.23245	272.38376	267.2902	262.47489	258.1015	253.67313	249.02937	244.91089	241.191	237.639	234.1413	230.6959	227.2916	223.9186	220.5771	217.2584	213.9626	210.6906	207.4433	204.2116	201.0954
570.75	552.94	540.22	532.38	522.26	513.32	505.77	499.59	494.54	489.36	484.67	480.27	476.17	472.36	468.72	465.26	461.97	458.84	455.85	452.99	450.24	447.61	445.1	442.7	440.4	438.16	436.06	434.08

**Mobile Source Emissions - Existing**

Arena rows include trips associated with Existing LA Clippers NBA Games only.

Existing (Average Event Attendees)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	47,042	0	19,958	0	67,000
Arena (attendees)	Varies	519,146	0	219,540	0	738,686
LA Clippers Organization Office	275 EMP	23,999	17,052	0	0	41,051
LA Clippers Team Practice & Training Facility	54 EMP	16,416	8,532	0	0	24,948
	<b>Total</b>	<b>606,603</b>	<b>25,584</b>	<b>239,498</b>	<b>0</b>	<b>871,685</b>

Existing NBA Games GHG EMISSIONS	
2018	
	345.2639253
	5018.485886
	211.5437223
	128.5618568
	5,703.86

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial Customer Calc Mod Defaults

LA Clippers Home Game Attendance at Staples Center		
	Annual Occurrence <sup>a</sup>	Average Attendance
Preseason Games	3	12,700 <sup>b</sup>
Regular Season Games	41	18,736 <sup>c</sup>
Postseason Games	3	19,355 <sup>d</sup>

<sup>a</sup> Annual occurrence based on historical number of preseason and regular season LA Clippers home games hosted at Staples Center and average number of postseason home games per year for all NBA teams since implementation of current NBA postseason format.

<sup>b</sup> Preseason attendance estimated at two-thirds basketball game capacity at Staples Center

<sup>c</sup> Average reported attendance during 5-year period, 2013-14 to 2017-18 NBA seasons. Source: <http://www.espn.com/nba/attendance/>

<sup>d</sup> Average reported attendance for all LA Clippers home postseason games during 5-year period, 2013-14 to 2017-18 NBA seasons. Source: [https://www.basketball-reference.com/play-index/tgl\\_finder](https://www.basketball-reference.com/play-index/tgl_finder)

	2018
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	350.5573411
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.000350557

Mobile Source Emissions - Existing

Arena rows include trips associated with existing market-shifted events only

Existing (Average Event Attendees)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	16,506	0	15,262	0	31,768
Arena (attendees)	Varies	192,586	0	170,436	0	363,022
LA Clippers Organization Office	275 EMP	23,999	17,052	0	0	41,051
LA Clippers Team Practice & Training Facility	54 EMP	16,416	8,532	0	0	24,948
<b>Total</b>		<b>249,507</b>	<b>25,584</b>	<b>185,698</b>	<b>0</b>	<b>460,789</b>

Existing Market Shifted GHG EMISSIONS
<b>2018</b>
163.7066325
2466.299325
211.5437223
128.5618568
<b>2,970.11</b>

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer; CalEEMod Defaults

Los Angeles Regional Market Indoor Arena Venues				
	Staples Center <sup>a</sup>	Honda Center <sup>b</sup>	The Forum <sup>a</sup>	Average
Concerts	12,857	8,843	11,462	11,054
Family Shows	5,110	3534	4,703	4,449
Other Sporting or Entertainment Events	12,370	8,920	5,750	9,007

<sup>a</sup> Average reported attendance for event type, 2016-2018 Source: <https://www.pollstar.com/research>

<sup>b</sup> Average reported attendance for event type, 2016-2017 Source: <https://www.pollstar.com/research>

	2018
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	350.5573411
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.000350557

## CaEEMod Outputs

## **Project Operations Outputs**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	508.33	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	508.33
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	5,672.2471	5,672.2471	0.0209	0.0200	5,678.7309
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	80.3684	87.5376	0.7364	0.0174	111.1276
<b>Total</b>	<b>5.9855</b>	<b>1.6179</b>	<b>1.2657</b>	<b>6.6800e-003</b>	<b>0.0000</b>	<b>0.0967</b>	<b>0.0967</b>	<b>0.0000</b>	<b>0.0967</b>	<b>0.0967</b>	<b>494.2948</b>	<b>5,816.5796</b>	<b>6,310.8743</b>	<b>29.5549</b>	<b>0.0374</b>	<b>7,060.8886</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	5,259.1863	5,259.1863	0.0194	0.0185	5,265.1925
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	46.1651	50.3949	0.4345	0.0103	64.3130
<b>Total</b>	<b>5.9774</b>	<b>1.5441</b>	<b>1.2037</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>5,369.3155</b>	<b>5,860.6709</b>	<b>29.2514</b>	<b>0.0288</b>	<b>6,600.5356</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.69	7.13	1.03	23.00	6.52

3.0 Construction Detail

Construction Phase



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction







IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	4,248.4659	4,248.4659	0.0000	0.0000	4,248.4659
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,581.1496	4,581.1496	0.0000	0.0000	4,581.1496
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.54234e+007	3,556.2343	0.0000	0.0000	3,556.2343
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	453.9811	0.0000	0.0000	453.9811
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	429.1019	0.0000	0.0000	429.1019
Unenclosed Parking Structure	239750	55.2803	0.0000	0.0000	55.2803
Unenclosed Parking Structure	375375	86.5519	0.0000	0.0000	86.5519
<b>Total</b>		<b>4,581.1496</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,581.1496</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	3,468.3907	0.0000	0.0000	3,468.3907
Fast Food Restaurant w/o Drive Thru	-83461.5	-19.2441	0.0000	0.0000	-19.2441
General Office Building	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Government (Civic Center)	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Health Club	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Hotel	1.82512e+006	420.8263	0.0000	0.0000	420.8263
Medical Office Building	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Other Non-Asphalt Surfaces	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Quality Restaurant	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Strip Mall	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Unenclosed Parking Structure	1.77755e+006	409.8578	0.0000	0.0000	409.8578
Unenclosed Parking Structure	156288	36.0362	0.0000	0.0000	36.0362
Unenclosed Parking Structure	291913	67.3078	0.0000	0.0000	67.3078
<b>Total</b>		<b>4,248.4659</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,248.4659</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Unmitigated	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7600e-003	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0732</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7600e-003	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0732</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	50.3949	0.4345	0.0103	64.3130
Unmitigated	87.5376	0.7364	0.0174	111.1276



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	37.8291	0.2484	5.8700e-003	45.7872
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	9.4843	0.0931	2.2000e-003	12.4669
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	22.7184	0.2230	5.2700e-003	29.8627
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	8.7238	0.0856	2.0200e-003	11.4672
Strip Mall	2.6455 / 0	8.7819	0.0862	2.0400e-003	11.5436
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>87.5376</b>	<b>0.7364</b>	<b>0.0174</b>	<b>111.1276</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	21.0669	0.1466	3.4600e-003	25.7622
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	5.5958	0.0549	1.3000e-003	7.3555
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	13.4039	0.1316	3.1100e-003	17.6190
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	5.1471	0.0505	1.1900e-003	6.7657
Strip Mall	1.56085 / 0	5.1813	0.0509	1.2000e-003	6.8107
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>50.3949</b>	<b>0.4344</b>	<b>0.0103</b>	<b>64.3130</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	499.69	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	499.69
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	5,594.3821	5,594.3821	0.0209	0.0200	5,600.8659
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	79.0023	86.1716	0.7364	0.0174	109.7616
Total	5.9854	1.6179	1.2657	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	5,737.3485	6,231.6433	29.5549	0.0374	6,981.6575

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	5,186.9759	5,186.9759	0.0194	0.0185	5,192.9821
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	45.3804	49.6103	0.4345	0.0103	63.5284
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2036</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>5,296.3204</b>	<b>5,787.6758</b>	<b>29.2514</b>	<b>0.0288</b>	<b>6,527.5404</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.69	7.12	1.03	23.00	6.50

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	4,176.2554	4,176.2554	0.0000	0.0000	4,176.2554
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,503.2846	4,503.2846	0.0000	0.0000	4,503.2846
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	3,495.7896	0.0000	0.0000	3,495.7896
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	446.2649	0.0000	0.0000	446.2649
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	421.8086	0.0000	0.0000	421.8086
Unenclosed Parking Structure	239750	54.3407	0.0000	0.0000	54.3407
Unenclosed Parking Structure	375375	85.0808	0.0000	0.0000	85.0808
<b>Total</b>		<b>4,503.2846</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,503.2846</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	3,409.4390	0.0000	0.0000	3,409.4390
Fast Food Restaurant w/o Drive Thru	-83461.5	-18.9170	0.0000	0.0000	-18.9170
General Office Building	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Government (Civic Center)	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Health Club	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Hotel	1.82512e+006	413.6736	0.0000	0.0000	413.6736
Medical Office Building	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Other Non-Asphalt Surfaces	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Quality Restaurant	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Strip Mall	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Unenclosed Parking Structure	1.77755e+006	402.8916	0.0000	0.0000	402.8916
Unenclosed Parking Structure	156288	35.4237	0.0000	0.0000	35.4237
Unenclosed Parking Structure	291913	66.1638	0.0000	0.0000	66.1638
<b>Total</b>		<b>4,176.2554</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,176.2554</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Unmitigated	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7300e-003	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0731</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7300e-003	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0731</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.6103	0.4345	0.0103	63.5284
Unmitigated	86.1716	0.7364	0.0174	109.7616

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	37.2272	0.2484	5.8700e-003	45.1853
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	9.3385	0.0931	2.2000e-003	12.3211
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	22.3692	0.2230	5.2700e-003	29.5135
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	8.5897	0.0856	2.0200e-003	11.3331
Strip Mall	2.6455 / 0	8.6469	0.0862	2.0400e-003	11.4086
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>86.1716</b>	<b>0.7364</b>	<b>0.0174</b>	<b>109.7616</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	20.7331	0.1466	3.4600e-003	25.4284
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	5.5097	0.0549	1.3000e-003	7.2694
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	13.1978	0.1316	3.1100e-003	17.4130
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	5.0679	0.0505	1.1900e-003	6.6865
Strip Mall	1.56085 / 0	5.1017	0.0509	1.2000e-003	6.7311
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>49.6103</b>	<b>0.4344</b>	<b>0.0103</b>	<b>63.5284</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	457.5	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	457.5
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	5,214.1592	5,214.1592	0.0209	0.0200	5,220.6430
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	72.3320	79.5012	0.7364	0.0174	103.0912
Total	5.9854	1.6179	1.2655	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	5,350.4553	5,844.7501	29.5549	0.0374	6,594.7642

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	4,834.3648	4,834.3648	0.0194	0.0185	4,840.3710
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	41.5488	45.7787	0.4345	0.0103	59.6968
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2035</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>4,939.8778</b>	<b>5,431.2332</b>	<b>29.2514</b>	<b>0.0288</b>	<b>6,171.0977</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.67	7.08	1.03	23.00	6.42

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	3,823.6444	3,823.6444	0.0000	0.0000	3,823.6444
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,123.0617	4,123.0617	0.0000	0.0000	4,123.0617
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	3,200.6319	0.0000	0.0000	3,200.6319
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	408.5857	0.0000	0.0000	408.5857
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	386.1943	0.0000	0.0000	386.1943
Unenclosed Parking Structure	239750	49.7526	0.0000	0.0000	49.7526
Unenclosed Parking Structure	375375	77.8973	0.0000	0.0000	77.8973
<b>Total</b>		<b>4,123.0617</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,123.0617</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	3,121.5721	0.0000	0.0000	3,121.5721
Fast Food Restaurant w/o Drive Thru	-83461.5	-17.3198	0.0000	0.0000	-17.3198
General Office Building	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Government (Civic Center)	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Health Club	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Hotel	1.82512e+006	378.7462	0.0000	0.0000	378.7462
Medical Office Building	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Other Non-Asphalt Surfaces	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Quality Restaurant	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Strip Mall	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Unenclosed Parking Structure	1.77755e+006	368.8745	0.0000	0.0000	368.8745
Unenclosed Parking Structure	156288	32.4328	0.0000	0.0000	32.4328
Unenclosed Parking Structure	291913	60.5775	0.0000	0.0000	60.5775
<b>Total</b>		<b>3,823.6444</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,823.6444</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.6000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.6000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	45.7787	0.4345	0.0103	59.6968
Unmitigated	79.5012	0.7364	0.0174	103.0912

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	34.2882	0.2484	5.8700e-003	42.2464
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	8.6266	0.0931	2.2000e-003	11.6091
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	20.6638	0.2230	5.2700e-003	27.8081
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	7.9349	0.0856	2.0200e-003	10.6783
Strip Mall	2.6455 / 0	7.9877	0.0862	2.0400e-003	10.7494
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>79.5012</b>	<b>0.7364</b>	<b>0.0174</b>	<b>103.0912</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	19.1030	0.1466	3.4600e-003	23.7983
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	5.0897	0.0549	1.3000e-003	6.8494
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	12.1917	0.1316	3.1100e-003	16.4068
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	4.6816	0.0505	1.1900e-003	6.3002
Strip Mall	1.56085 / 0	4.7127	0.0509	1.2000e-003	6.3421
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>45.7787</b>	<b>0.4344</b>	<b>0.0103</b>	<b>59.6968</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	305	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	305
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	3,839.8053	3,839.8053	0.0209	0.0200	3,846.2891
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	48.2213	55.3906	0.7364	0.0174	78.9806
<b>Total</b>	<b>5.9854</b>	<b>1.6179</b>	<b>1.2654</b>	<b>6.6800e-003</b>	<b>0.0000</b>	<b>0.0967</b>	<b>0.0967</b>	<b>0.0000</b>	<b>0.0967</b>	<b>0.0967</b>	<b>494.2948</b>	<b>3,951.9907</b>	<b>4,446.2855</b>	<b>29.5549</b>	<b>0.0374</b>	<b>5,196.2996</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	3,559.8167	3,559.8167	0.0194	0.0185	3,565.8229
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	27.6992	31.9291	0.4345	0.0103	45.8472
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2034</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>3,651.4800</b>	<b>4,142.8354</b>	<b>29.2514</b>	<b>0.0288</b>	<b>4,882.7000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.60	6.82	1.03	23.00	6.04

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,549.0962	2,549.0962	0.0000	0.0000	2,549.0962
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,748.7078	2,748.7078	0.0000	0.0000	2,748.7078
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	2,133.7546	0.0000	0.0000	2,133.7546
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	272.3905	0.0000	0.0000	272.3905
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	257.4629	0.0000	0.0000	257.4629
Unenclosed Parking Structure	239750	33.1684	0.0000	0.0000	33.1684
Unenclosed Parking Structure	375375	51.9315	0.0000	0.0000	51.9315
<b>Total</b>		<b>2,748.7078</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2,748.7078</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	2,081.0480	0.0000	0.0000	2,081.0480
Fast Food Restaurant w/o Drive Thru	-83461.5	-11.5465	0.0000	0.0000	-11.5465
General Office Building	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Government (Civic Center)	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Health Club	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Hotel	1.82512e+006	252.4974	0.0000	0.0000	252.4974
Medical Office Building	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Other Non-Asphalt Surfaces	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Quality Restaurant	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Strip Mall	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Unenclosed Parking Structure	1.77755e+006	245.9163	0.0000	0.0000	245.9163
Unenclosed Parking Structure	156288	21.6218	0.0000	0.0000	21.6218
Unenclosed Parking Structure	291913	40.3850	0.0000	0.0000	40.3850
<b>Total</b>		<b>2,549.0963</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2,549.0963</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.9291	0.4345	0.0103	45.8472
Unmitigated	55.3906	0.7364	0.0174	78.9806

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	23.6650	0.2484	5.8700e-003	31.6231
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	6.0532	0.0931	2.2000e-003	9.0358
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	14.4996	0.2230	5.2700e-003	21.6439
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	5.5678	0.0856	2.0200e-003	8.3112
Strip Mall	2.6455 / 0	5.6049	0.0862	2.0400e-003	8.3666
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>55.3906</b>	<b>0.7364</b>	<b>0.0174</b>	<b>78.9806</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	13.2110	0.1466	3.4600e-003	17.9063
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	3.5714	0.0549	1.3000e-003	5.3311
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	8.5548	0.1316	3.1100e-003	12.7699
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	3.2850	0.0505	1.1900e-003	4.9036
Strip Mall	1.56085 / 0	3.3069	0.0509	1.2000e-003	4.9363
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>31.9291</b>	<b>0.4344</b>	<b>0.0103</b>	<b>45.8472</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	152.5	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	152.5
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	2,465.4514	2,465.4514	0.0209	0.0200	2,471.9352
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6800e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	24.1107	31.2799	0.7364	0.0174	54.8699
Total	5.9854	1.6179	1.2654	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	2,553.5262	3,047.8210	29.5549	0.0374	3,797.8351

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	2,285.2686	2,285.2686	0.0194	0.0185	2,291.2748
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	13.8496	18.0795	0.4345	0.0103	31.9976
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2034</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>2,363.0823</b>	<b>2,854.4377</b>	<b>29.2514</b>	<b>0.0288</b>	<b>3,594.3022</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.46	6.34	1.03	23.00	5.36

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	1,274.5481	1,274.5481	0.0000	0.0000	1,274.5481
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	1,374.3539	1,374.3539	0.0000	0.0000	1,374.3539
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	1,066.8773	0.0000	0.0000	1,066.8773
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	136.1952	0.0000	0.0000	136.1952
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	128.7314	0.0000	0.0000	128.7314
Unenclosed Parking Structure	239750	16.5842	0.0000	0.0000	16.5842
Unenclosed Parking Structure	375375	25.9658	0.0000	0.0000	25.9658
<b>Total</b>		<b>1,374.3539</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,374.3539</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	1,040.5240	0.0000	0.0000	1,040.5240
Fast Food Restaurant w/o Drive Thru	-83461.5	-5.7733	0.0000	0.0000	-5.7733
General Office Building	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Government (Civic Center)	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Health Club	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Hotel	1.82512e+006	126.2487	0.0000	0.0000	126.2487
Medical Office Building	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Other Non-Asphalt Surfaces	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Quality Restaurant	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Strip Mall	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Unenclosed Parking Structure	1.77755e+006	122.9582	0.0000	0.0000	122.9582
Unenclosed Parking Structure	156288	10.8109	0.0000	0.0000	10.8109
Unenclosed Parking Structure	291913	20.1925	0.0000	0.0000	20.1925
<b>Total</b>		<b>1,274.5481</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,274.5481</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.0795	0.4345	0.0103	31.9976
Unmitigated	31.2799	0.7364	0.0174	54.8699

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	13.0418	0.2484	5.8700e-003	20.9999
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	3.4798	0.0931	2.2000e-003	6.4624
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	8.3354	0.2230	5.2700e-003	15.4797
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	3.2008	0.0856	2.0200e-003	5.9442
Strip Mall	2.6455 / 0	3.2221	0.0862	2.0400e-003	5.9838
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>31.2799</b>	<b>0.7364</b>	<b>0.0174</b>	<b>54.8699</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	7.3190	0.1466	3.4600e-003	12.0143
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	2.0531	0.0549	1.3000e-003	3.8128
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	4.9179	0.1316	3.1100e-003	9.1330
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	1.8885	0.0505	1.1900e-003	3.5071
Strip Mall	1.56085 / 0	1.9010	0.0509	1.2000e-003	3.5304
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.0795</b>	<b>0.4344</b>	<b>0.0103</b>	<b>31.9976</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

### IBEC Operations - Maximum Attendees Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2045
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00





IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6800e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	0.0000	7.1692	0.7364	0.0174	30.7593
Total	5.9854	1.6179	1.2654	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	1,155.0616	1,649.3564	29.5549	0.0374	2,399.3705

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	0.0000	4.2299	0.4345	0.0103	18.1480
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2034</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>1,074.6846</b>	<b>1,566.0400</b>	<b>29.2514</b>	<b>0.0288</b>	<b>2,305.9045</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	6.96	5.05	1.03	23.00	3.90

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003			0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003			0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Arena	1.54234e+007	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	239750	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	375375	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	-83461.5	0.0000	0.0000	0.0000	0.0000
General Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	-83461.5	0.0000	0.0000	0.0000	0.0000
Health Club	-83461.5	0.0000	0.0000	0.0000	0.0000
Hotel	1.82512e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	-83461.5	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	-83461.5	0.0000	0.0000	0.0000	0.0000
Strip Mall	-83461.5	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.77755e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	156288	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	291913	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.2299	0.4345	0.0103	18.1480
Unmitigated	7.1692	0.7364	0.0174	30.7593

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	2.4186	0.2484	5.8700e-003	10.3767
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	0.9064	0.0931	2.2000e-003	3.8890
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	2.1712	0.2230	5.2700e-003	9.3155
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	0.8337	0.0856	2.0200e-003	3.5771
Strip Mall	2.6455 / 0	0.8393	0.0862	2.0400e-003	3.6010
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.1692</b>	<b>0.7364</b>	<b>0.0174</b>	<b>30.7593</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	1.4270	0.1466	3.4600e-003	6.1222
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	0.5348	0.0549	1.3000e-003	2.2945
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	1.2810	0.1316	3.1100e-003	5.4962
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	0.4919	0.0505	1.1900e-003	2.1105
Strip Mall	1.56085 / 0	0.4952	0.0509	1.2000e-003	2.1246
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2299</b>	<b>0.4344</b>	<b>0.0103</b>	<b>18.1480</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	476.2	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	16.8753	18.7788	0.1955	4.6200e-003	25.0422
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>16.8753</b>	<b>18.7788</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>25.0423</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	13.5002	15.0230	0.1564	3.6900e-003	20.0338
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>13.5002</b>	<b>15.0231</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>20.0338</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	15.0230	0.1564	3.6900e-003	20.0338
Unmitigated	18.7788	0.1955	4.6200e-003	25.0422

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	18.7788	0.1955	4.6200e-003	25.0422
<b>Total</b>		<b>18.7788</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>25.0422</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	15.0230	0.1564	3.6900e-003	20.0338
<b>Total</b>		<b>15.0230</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>20.0338</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	468.7	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	468.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	16.6095	18.5130	0.1955	4.6200e-003	24.7765
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>16.6095</b>	<b>18.5130</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>24.7765</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	13.2876	14.8104	0.1564	3.6900e-003	19.8212
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>13.2876</b>	<b>14.8104</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>19.8212</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.8104	0.1564	3.6900e-003	19.8212
Unmitigated	18.5130	0.1955	4.6200e-003	24.7765

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	18.5130	0.1955	4.6200e-003	24.7765
<b>Total</b>		<b>18.5130</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>24.7765</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	14.8104	0.1564	3.6900e-003	19.8212
<b>Total</b>		<b>14.8104</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>19.8212</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	432.11	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	432.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	15.3128	17.2164	0.1955	4.6200e-003	23.4798
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>15.3129</b>	<b>17.2164</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>23.4798</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	12.2503	13.7731	0.1564	3.6900e-003	18.7838
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>12.2503</b>	<b>13.7731</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>18.7839</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.7731	0.1564	3.6900e-003	18.7838
Unmitigated	17.2164	0.1955	4.6200e-003	23.4798

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	17.2164	0.1955	4.6200e-003	23.4798
<b>Total</b>		<b>17.2164</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>23.4798</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	13.7731	0.1564	3.6900e-003	18.7838
<b>Total</b>		<b>13.7731</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>18.7838</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	288.07	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	288.07
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	10.2084	12.1120	0.1955	4.6200e-003	18.3754
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>10.2085</b>	<b>12.1120</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>18.3754</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	8.1668	9.6896	0.1564	3.6900e-003	14.7003
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>8.1668</b>	<b>9.6896</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>14.7004</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.6896	0.1564	3.6900e-003	14.7003
Unmitigated	12.1120	0.1955	4.6200e-003	18.3754

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	12.1120	0.1955	4.6200e-003	18.3754
<b>Total</b>		<b>12.1120</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>18.3754</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	9.6896	0.1564	3.6900e-003	14.7003
<b>Total</b>		<b>9.6896</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>14.7003</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	144.04	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	144.04
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	5.1044	7.0079	0.1955	4.6200e-003	13.2714
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>5.1044</b>	<b>7.0079</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>13.2714</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	4.0835	5.6063	0.1564	3.6900e-003	10.6171
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>4.0835</b>	<b>5.6064</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>10.6171</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.6063	0.1564	3.6900e-003	10.6171
Unmitigated	7.0079	0.1955	4.6200e-003	13.2714

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	7.0079	0.1955	4.6200e-003	13.2714
<b>Total</b>		<b>7.0079</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>13.2714</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	5.6063	0.1564	3.6900e-003	10.6171
<b>Total</b>		<b>5.6063</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>10.6171</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2045
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	0.0000	1.9035	0.1955	4.6200e-003	8.1670
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>2.0000e-005</b>	<b>1.9035</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>8.1670</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	0.0000	1.5228	0.1564	3.6900e-003	6.5336
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>2.0000e-005</b>	<b>1.5228</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>6.5336</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5228	0.1564	3.6900e-003	6.5336
Unmitigated	1.9035	0.1955	4.6200e-003	8.1670

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	1.9035	0.1955	4.6200e-003	8.1670
<b>Total</b>		<b>1.9035</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>8.1670</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	1.5228	0.1564	3.6900e-003	6.5336
<b>Total</b>		<b>1.5228</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>6.5336</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Additional Generator Run - Los Angeles-South Coast County, Annual

**Additional Generator Run**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	476.2	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Run only includes emissions with additional emergency generator.

Land Use - Operational emissions only for additional emergency generator.

Construction Phase - Operational emissions only for additional emergency generator.

Off-road Equipment - Operational emissions only for additional emergency generator.

Off-road Equipment - Operational emissions only for additional emergency generator.

Trips and VMT - Operational emissions only for additional emergency generator.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes additional 750 kW emergency generator for ancillary land uses. Assumes 50 hours per year for maintenance and testing.

## Additional Generator Run - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,207.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

## 2.0 Emissions Summary

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Additional Generator Run - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Additional Generator Run - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/30/2018	10/29/2018	5	0	
2	Architectural Coating	Architectural Coating	10/30/2018	10/29/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Additional Generator Run - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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Additional Generator Run - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





Additional Generator Run - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Additional Generator Run - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



Additional Generator Run - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water

Additional Generator Run - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Additional Generator Run - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Additional Generator Run - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	1207	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>		<b>7.2800e-003</b>	<b>7.2800e-003</b>		<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

**11.0 Vegetation**

## Backfill Operations Outputs

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**Backfilled LA Clippers Organization Office**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	577.752	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Accounts for backfilling with general office use. LADWP adjusted CO2e intensity per RPS mandates.

Land Use - Based on existing square footage.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Trips and VMT - Operations only run.

Grading - Operations only run.

Architectural Coating - Operations only run.

Energy Use - Historical energy usage data

## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	577.752
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	92.5019	92.5019	2.5000e-004	2.4000e-004	92.5803
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	18.3437	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>	<b>0.1260</b>	<b>0.2154</b>	<b>0.6029</b>	<b>2.4000e-003</b>	<b>0.2035</b>	<b>2.7000e-003</b>	<b>0.2062</b>	<b>0.0545</b>	<b>2.5700e-003</b>	<b>0.0571</b>	<b>4.8691</b>	<b>326.4797</b>	<b>331.3488</b>	<b>0.3471</b>	<b>2.9600e-003</b>	<b>340.9085</b>

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	92.5019	92.5019	2.5000e-004	2.4000e-004	92.5803
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	18.3437	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>	<b>0.1260</b>	<b>0.2154</b>	<b>0.6029</b>	<b>2.4000e-003</b>	<b>0.2035</b>	<b>2.7000e-003</b>	<b>0.2062</b>	<b>0.0545</b>	<b>2.5700e-003</b>	<b>0.0571</b>	<b>4.8691</b>	<b>326.4797</b>	<b>331.3488</b>	<b>0.3471</b>	<b>2.9600e-003</b>	<b>340.9085</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/13/2018	1/12/2018	5	0	
2	Architectural Coating	Architectural Coating	6/14/2018	6/13/2018	5	0	

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Unmitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	219.06	48.86	20.85	536,137	536,137
Total	219.06	48.86	20.85	536,137	536,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	79.3179	79.3179	0.0000	0.0000	79.3179
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	79.3179	79.3179	0.0000	0.0000	79.3179
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	79.3179	0.0000	0.0000	79.3179
<b>Total</b>		<b>79.3179</b>	<b>0.0000</b>	<b>0.0000</b>	<b>79.3179</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	79.3179	0.0000	0.0000	79.3179
<b>Total</b>		<b>79.3179</b>	<b>0.0000</b>	<b>0.0000</b>	<b>79.3179</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.4635	0.1150	2.7200e-003	23.1483
Unmitigated	19.4635	0.1150	2.7200e-003	23.1483

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>		<b>19.4635</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>23.1483</b>

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>		<b>19.4635</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>23.1483</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886



Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	577.75	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Existing operational run to estimate NBA event backfill. LADWP RPS estimated for 2024 using linear interpolation.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	577.75
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	3,986.7577	3,986.7577	0.0186	0.0178	3,992.5217
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,422.8830	1,548.3401	12.8856	0.3043	1,961.1501
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>5,409.6635</b>	<b>5,775.5065</b>	<b>27.1107</b>	<b>0.3220</b>	<b>6,549.2421</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	3,986.7577	3,986.7577	0.0186	0.0178	3,992.5217
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,422.8830	1,548.3401	12.8856	0.3043	1,961.1501
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>5,409.6635</b>	<b>5,775.5065</b>	<b>27.1107</b>	<b>0.3220</b>	<b>6,549.2421</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	



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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Staples Center - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,016.7958	3,016.7958	0.0000	0.0000	3,016.7958
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,016.7958	3,016.7958	0.0000	0.0000	3,016.7958
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>



Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,016.7958	0.0000	0.0000	3,016.7958
<b>Total</b>		<b>3,016.7958</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,016.7958</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,016.7958	0.0000	0.0000	3,016.7958
<b>Total</b>		<b>3,016.7958</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,016.7958</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Unmitigated	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0800e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0117</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0800e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0117</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Staples Center - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,548.340 1	12.8856	0.3043	1,961.150 1
Unmitigated	1,548.340 1	12.8856	0.3043	1,961.150 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,548.340 1	12.8856	0.3043	1,961.150 1
<b>Total</b>		<b>1,548.340 1</b>	<b>12.8856</b>	<b>0.3043</b>	<b>1,961.150 1</b>

Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,548.340 1	12.8856	0.3043	1,961.150 1
<b>Total</b>		<b>1,548.340 1</b>	<b>12.8856</b>	<b>0.3043</b>	<b>1,961.150 1</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Staples Center - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2045
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**



Staples Center - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run to estimate NBA event backfill. LADWP CO<sub>2</sub>e adjusted for RPS mandates.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	0.0000	125.4571	12.8856	0.3043	538.2671
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>969.9847</b>	<b>1,335.8277</b>	<b>27.1107</b>	<b>0.3220</b>	<b>2,109.5633</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	0.0000	125.4571	12.8856	0.3043	538.2671
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>969.9847</b>	<b>1,335.8277</b>	<b>27.1107</b>	<b>0.3220</b>	<b>2,109.5633</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

Staples Center - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Staples Center - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Unmitigated	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0700e-003	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0700e-003	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

7.0 Water Detail

7.1 Mitigation Measures Water



Staples Center - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	125.4571	12.8856	0.3043	538.2671
Unmitigated	125.4571	12.8856	0.3043	538.2671

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	125.4571	12.8856	0.3043	538.2671
<b>Total</b>		<b>125.4571</b>	<b>12.8856</b>	<b>0.3043</b>	<b>538.2671</b>

Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	125.4571	12.8856	0.3043	538.2671
<b>Total</b>		<b>125.4571</b>	<b>12.8856</b>	<b>0.3043</b>	<b>538.2671</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**Backfilled LA Clippers Organization Office**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2045
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Accounts for backfilling with general office use. LADWP adjusted CO2e intensity per RPS mandates.

Land Use - Based on existing square footage.

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emission only.

Architectural Coating - Operational emissions only.

Energy Use - Historical energy use.

## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	PhaseEndDate	11/14/2019	11/8/2019
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Mobile	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	0.0000	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>	<b>0.1064</b>	<b>0.1888</b>	<b>0.3289</b>	<b>1.9700e-003</b>	<b>0.2037</b>	<b>1.6500e-003</b>	<b>0.2053</b>	<b>0.0546</b>	<b>1.6000e-003</b>	<b>0.0562</b>	<b>4.8691</b>	<b>190.7754</b>	<b>195.6445</b>	<b>0.3434</b>	<b>2.9600e-003</b>	<b>205.1119</b>



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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Mobile	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	0.0000	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>	<b>0.1064</b>	<b>0.1888</b>	<b>0.3289</b>	<b>1.9700e-003</b>	<b>0.2037</b>	<b>1.6500e-003</b>	<b>0.2053</b>	<b>0.0546</b>	<b>1.6000e-003</b>	<b>0.0562</b>	<b>4.8691</b>	<b>190.7754</b>	<b>195.6445</b>	<b>0.3434</b>	<b>2.9600e-003</b>	<b>205.1119</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/11/2019	6/11/2019	5	1	
2	Architectural Coating	Architectural Coating	11/8/2019	11/8/2019	5	1	

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Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559
Unmitigated	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	219.06	48.86	20.85	536,137	536,137
Total	219.06	48.86	20.85	536,137	536,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.534886	0.043667	0.209431	0.115969	0.013215	0.006462	0.023583	0.041458	0.002852	0.001577	0.005346	0.000740	0.000813

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Unmitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.2000e-004</b>

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.2000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.1198	0.1150	2.7200e-003	4.8046
Unmitigated	1.1198	0.1150	2.7200e-003	4.8046

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>		<b>1.1198</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>4.8046</b>

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>		<b>1.1198</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>4.8046</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Baseline Emissions Outputs

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**LA Clippers Existing Operations (Team Office Only)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	742.82	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run for team offices. LADWP CO2e adjusted per RPS mandates based on 2017 information.

Land Use - Based on existing building sf.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Grading - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy usage data used for team offices.

## LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	11/14/2019	11/7/2019
tblConstructionPhase	PhaseEndDate	6/11/2019	6/10/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	742.82
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

## 2.0 Emissions Summary

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LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	115.1636	115.1636	2.5000e-004	2.4000e-004	115.2420
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	23.5846	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>	<b>0.0823</b>	<b>0.0121</b>	<b>0.0104</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>4.8691</b>	<b>138.7487</b>	<b>143.6178</b>	<b>0.3368</b>	<b>2.9600e-003</b>	<b>152.9203</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	115.1636	115.1636	2.5000e-004	2.4000e-004	115.2420
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	23.5846	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>	<b>0.0823</b>	<b>0.0121</b>	<b>0.0104</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>4.8691</b>	<b>138.7487</b>	<b>143.6178</b>	<b>0.3368</b>	<b>2.9600e-003</b>	<b>152.9203</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/11/2019	6/10/2019	5	0	
2	Architectural Coating	Architectural Coating	11/8/2019	11/7/2019	5	0	

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.9797	101.9797	0.0000	0.0000	101.9797
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.9797	101.9797	0.0000	0.0000	101.9797
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	101.9797	0.0000	0.0000	101.9797
<b>Total</b>		<b>101.9797</b>	<b>0.0000</b>	<b>0.0000</b>	<b>101.9797</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	101.9797	0.0000	0.0000	101.9797
<b>Total</b>		<b>101.9797</b>	<b>0.0000</b>	<b>0.0000</b>	<b>101.9797</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.7045	0.1150	2.7200e-003	28.3892
Unmitigated	24.7045	0.1150	2.7200e-003	28.3892

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>		<b>24.7045</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>28.3892</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>		<b>24.7045</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>28.3892</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**Existing On-Site Buildings Operations Base Case**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	28.81	1000sqft	1.03	28,809.00	0
Fast Food Restaurant with Drive Thru	1.12	1000sqft	0.33	1,118.00	0
Motel	38.00	Room	0.66	16,806.00	0
Strip Mall	1.13	1000sqft	0.19	1,134.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only from on-site buildings proposed to be demolished. SCE 2018 CO2e intensity factor per RPS goals based on 2017 Sustainability Report.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.



## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	23,934.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	71,801.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblLandUse	LandUseSquareFeet	28,810.00	28,809.00
tblLandUse	LandUseSquareFeet	1,120.00	1,118.00
tblLandUse	LandUseSquareFeet	74,487.60	16,806.00
tblLandUse	LandUseSquareFeet	1,130.00	1,134.00
tblLandUse	LotAcreage	0.66	1.03
tblLandUse	LotAcreage	0.03	0.33
tblLandUse	LotAcreage	1.71	0.66
tblLandUse	LotAcreage	0.03	0.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	Worker TripNumber	4.00	0.00

## 2.0 Emissions Summary

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Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	211.0252	211.0252	1.5800e-003	1.5100e-003	211.5148
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	26.6003	29.1541	0.2623	6.1900e-003	37.5575
<b>Total</b>	<b>0.5528</b>	<b>1.5939</b>	<b>3.9722</b>	<b>0.0105</b>	<b>0.7206</b>	<b>0.0182</b>	<b>0.7388</b>	<b>0.1932</b>	<b>0.0174</b>	<b>0.2107</b>	<b>16.8871</b>	<b>1,160.9124</b>	<b>1,177.7995</b>	<b>1.1726</b>	<b>7.7000e-003</b>	<b>1,209.4092</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	211.0252	211.0252	1.5800e-003	1.5100e-003	211.5148
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	26.6003	29.1541	0.2623	6.1900e-003	37.5575
<b>Total</b>	<b>0.5528</b>	<b>1.5939</b>	<b>3.9722</b>	<b>0.0105</b>	<b>0.7206</b>	<b>0.0182</b>	<b>0.7388</b>	<b>0.1932</b>	<b>0.0174</b>	<b>0.2107</b>	<b>16.8871</b>	<b>1,160.9124</b>	<b>1,177.7995</b>	<b>1.1726</b>	<b>7.7000e-003</b>	<b>1,209.4092</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/8/2018	10/7/2018	5	0	
2	Architectural Coating	Architectural Coating	10/11/2018	10/10/2018	5	0	

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Unmitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	555.65	808.67	607.85	630,650	630,650
General Light Industry	200.81	38.03	19.59	671,611	671,611
Motel	213.94	213.94	213.94	508,773	508,773
Strip Mall	50.08	47.51	23.09	87,247	87,247
Total	1,020.48	1,108.15	864.46	1,898,281	1,898,281

4.3 Trip Type Information

## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Motel	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Strip Mall	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

## 5.0 Energy Detail

Historical Energy Use: Y

## 5.1 Mitigation Measures Energy

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	128.6428	128.6428	0.0000	0.0000	128.6428
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	128.6428	128.6428	0.0000	0.0000	128.6428
Natural Gas Mitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719
Natural Gas Unmitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
<b>Total</b>		<b>8.3100e-003</b>	<b>0.0757</b>	<b>0.0636</b>	<b>4.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>82.3824</b>	<b>82.3824</b>	<b>1.5700e-003</b>	<b>1.5100e-003</b>	<b>82.8719</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
<b>Total</b>		<b>8.3100e-003</b>	<b>0.0757</b>	<b>0.0636</b>	<b>4.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>82.3824</b>	<b>82.3824</b>	<b>1.5700e-003</b>	<b>1.5100e-003</b>	<b>82.8719</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	11.2978	0.0000	0.0000	11.2978
General Light Industry	278007	69.2299	0.0000	0.0000	69.2299
Motel	177976	44.3199	0.0000	0.0000	44.3199
Strip Mall	15241	3.7953	0.0000	0.0000	3.7953
<b>Total</b>		<b>128.6428</b>	<b>0.0000</b>	<b>0.0000</b>	<b>128.6428</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	11.2978	0.0000	0.0000	11.2978
General Light Industry	278007	69.2299	0.0000	0.0000	69.2299
Motel	177976	44.3199	0.0000	0.0000	44.3199
Strip Mall	15241	3.7953	0.0000	0.0000	3.7953
<b>Total</b>		<b>128.6428</b>	<b>0.0000</b>	<b>0.0000</b>	<b>128.6428</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Unmitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.1953</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>



Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.1953</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>

7.0 Water Detail

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7.1 Mitigation Measures Water

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	29.1541	0.2623	6.1900e-003	37.5575
Unmitigated	29.1541	0.2623	6.1900e-003	37.5575

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2702	0.0111	2.6000e-004	1.6251
General Light Industry	6.66231 / 0	23.7163	0.2171	5.1300e-003	30.6712
Motel	0.963937 / 0.107104	3.7277	0.0314	7.4000e-004	4.7340
Strip Mall	0.0837019 / 0.0513012	0.4399	2.7300e-003	6.0000e-005	0.5273
<b>Total</b>		<b>29.1541</b>	<b>0.2623</b>	<b>6.1900e-003</b>	<b>37.5575</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2702	0.0111	2.6000e-004	1.6251
General Light Industry	6.66231 / 0	23.7163	0.2171	5.1300e-003	30.6712
Motel	0.963937 / 0.107104	3.7277	0.0314	7.4000e-004	4.7340
Strip Mall	0.0837019 / 0.0513012	0.4399	2.7300e-003	6.0000e-005	0.5273
<b>Total</b>		<b>29.1541</b>	<b>0.2623</b>	<b>6.1900e-003</b>	<b>37.5575</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.3332	0.8471	0.0000	35.5099
Unmitigated	14.3332	0.8471	0.0000	35.5099

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
<b>Total</b>		<b>14.3332</b>	<b>0.8471</b>	<b>0.0000</b>	<b>35.5099</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
<b>Total</b>		<b>14.3332</b>	<b>0.8471</b>	<b>0.0000</b>	<b>35.5099</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Equipment Type	Number
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## 11.0 Vegetation

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**Existing Onsite Buildings Operations Alternate Case Parcels**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	3.00	Dwelling Unit	0.10	1,629.00	9
Single Family Housing	1.00	Dwelling Unit	0.10	795.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only for additional parcels to be demolished under alternate case. SCE 2018 CO2e intensity factor per RPS goals based on 2017 Sustainability Report.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.



## Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,636.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	4,909.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblLandUse	LandUseSquareFeet	3,000.00	1,629.00
tblLandUse	LandUseSquareFeet	1,800.00	795.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	0.32	0.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.0576	8.0576	7.0000e-005	6.0000e-005	8.0787
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2996	1.3823	8.4900e-003	2.0000e-004	1.6544
<b>Total</b>	<b>0.0372</b>	<b>0.0681</b>	<b>0.2484</b>	<b>6.0000e-004</b>	<b>0.0379</b>	<b>4.9200e-003</b>	<b>0.0429</b>	<b>0.0102</b>	<b>4.8800e-003</b>	<b>0.0151</b>	<b>1.0374</b>	<b>57.0101</b>	<b>58.0474</b>	<b>0.0441</b>	<b>2.9000e-004</b>	<b>59.2376</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.0576	8.0576	7.0000e-005	6.0000e-005	8.0787
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2996	1.3823	8.4900e-003	2.0000e-004	1.6544
<b>Total</b>	<b>0.0372</b>	<b>0.0681</b>	<b>0.2484</b>	<b>6.0000e-004</b>	<b>0.0379</b>	<b>4.9200e-003</b>	<b>0.0429</b>	<b>0.0102</b>	<b>4.8800e-003</b>	<b>0.0151</b>	<b>1.0374</b>	<b>57.0101</b>	<b>58.0474</b>	<b>0.0441</b>	<b>2.9000e-004</b>	<b>59.2376</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/20/2018	10/19/2018	5	0	
2	Architectural Coating	Architectural Coating	3/21/2019	3/20/2019	5	0	

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Unmitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	19.77	21.48	18.21	67,630	67,630
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	29.29	31.39	26.83	99,913	99,913

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Single Family Housing	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5133	4.5133	0.0000	0.0000	4.5133
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5133	4.5133	0.0000	0.0000	4.5133
NaturalGas Mitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654
NaturalGas Unmitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
<b>Total</b>		<b>3.6000e-004</b>	<b>3.0600e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.5444</b>	<b>3.5444</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>3.5654</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
<b>Total</b>		<b>3.6000e-004</b>	<b>3.0600e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.5444</b>	<b>3.5444</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>3.5654</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.7192	0.0000	0.0000	2.7192
Single Family Housing	7204.5	1.7941	0.0000	0.0000	1.7941
<b>Total</b>		<b>4.5133</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.5133</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.7192	0.0000	0.0000	2.7192
Single Family Housing	7204.5	1.7941	0.0000	0.0000	1.7941
<b>Total</b>		<b>4.5133</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.5133</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Unmitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
<b>Total</b>	<b>0.0239</b>	<b>1.5200e-003</b>	<b>0.0670</b>	<b>6.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.4249</b>	<b>0.8839</b>	<b>1.3087</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3507</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
<b>Total</b>	<b>0.0239</b>	<b>1.5200e-003</b>	<b>0.0670</b>	<b>6.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.4249</b>	<b>0.8839</b>	<b>1.3087</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3507</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.3823	8.4900e-003	2.0000e-004	1.6544
Unmitigated	1.3823	8.4900e-003	2.0000e-004	1.6544

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	1.0367	6.3700e-003	1.5000e-004	1.2408
Single Family Housing	0.065154 / 0.0410754	0.3456	2.1200e-003	5.0000e-005	0.4136
<b>Total</b>		<b>1.3823</b>	<b>8.4900e-003</b>	<b>2.0000e-004</b>	<b>1.6544</b>



Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	1.0367	6.3700e-003	1.5000e-004	1.2408
Single Family Housing	0.065154 / 0.0410754	0.3456	2.1200e-003	5.0000e-005	0.4136
<b>Total</b>		<b>1.3823</b>	<b>8.4900e-003</b>	<b>2.0000e-004</b>	<b>1.6544</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.5298	0.0313	0.0000	1.3126
Unmitigated	0.5298	0.0313	0.0000	1.3126

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.5298</b>	<b>0.0313</b>	<b>0.0000</b>	<b>1.3126</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.5298</b>	<b>0.0313</b>	<b>0.0000</b>	<b>1.3126</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**The Forum Existing Emissions**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	346.00	1000sqft	111.21	346,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Project Characteristics - Existing emissions at The Forum. SCE CO2e intensity rate adjusted to 2018 per RPS mandates based on 2017 Sustainability Report.

Land Use - Based on actual square footage.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Renovated in 2014. CalEEMod defaults for energy usage.

Solid Waste - Based on 1.29 tons/1000 sq ft.

## The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	173,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	519,000.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	9.52	446.34
tblTripsAndVMT	WorkerTripNumber	29.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,113.9613	1,113.9613	7.4000e-003	7.0700e-003	1,116.2545
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	509.6066	556.8921	4.8567	0.1147	712.4828
<b>Total</b>	<b>1.4501</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>1,623.5764</b>	<b>1,761.4650</b>	<b>10.2186</b>	<b>0.1218</b>	<b>2,053.2115</b>



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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,113.9613	1,113.9613	7.4000e-003	7.0700e-003	1,116.2545
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	509.6066	556.8921	4.8567	0.1147	712.4828
<b>Total</b>	<b>1.4501</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>1,623.5764</b>	<b>1,761.4650</b>	<b>10.2186</b>	<b>0.1218</b>	<b>2,053.2115</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/6/2018	10/5/2018	5	0	
2	Architectural Coating	Architectural Coating	2/19/2033	2/18/2033	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2033**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	728.0662	728.0662	0.0000	0.0000	728.0662
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	728.0662	728.0662	0.0000	0.0000	728.0662
NaturalGas Mitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
NaturalGas Unmitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882



The Forum Existing Emissions - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	728.0662	0.0000	0.0000	728.0662
<b>Total</b>		<b>728.0662</b>	<b>0.0000</b>	<b>0.0000</b>	<b>728.0662</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	728.0662	0.0000	0.0000	728.0662
<b>Total</b>		<b>728.0662</b>	<b>0.0000</b>	<b>0.0000</b>	<b>728.0662</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Unmitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
<b>Total</b>	<b>1.4111</b>	<b>4.0000e-005</b>	<b>4.4800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1800e-003</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
<b>Total</b>	<b>1.4111</b>	<b>4.0000e-005</b>	<b>4.4800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1800e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	556.8921	4.8567	0.1147	712.4828
Unmitigated	556.8921	4.8567	0.1147	712.4828

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	556.8921	4.8567	0.1147	712.4828
<b>Total</b>		<b>556.8921</b>	<b>4.8567</b>	<b>0.1147</b>	<b>712.4828</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	556.8921	4.8567	0.1147	712.4828
<b>Total</b>		<b>556.8921</b>	<b>4.8567</b>	<b>0.1147</b>	<b>712.4828</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6030	5.3545	0.0000	224.4651
Unmitigated	90.6030	5.3545	0.0000	224.4651

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Honda Center - Orange County, Annual

**Honda Center**  
**Orange County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	650.00	1000sqft	208.93	650,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MW hr)</b>	1112.39	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Honda Center - Orange County, Annual

Project Characteristics - Honda Center operational emissions. CO<sub>2</sub>e rate updated based on CURB model, based on 2017 APU power content label and Electric Services information.

Land Use - Based Honda Center square footage

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emissions only.

Architectural Coating - Operational emissions only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Based on actual energy consumption provided in Honda Center Enhancement Project EIR

Solid Waste - Solid waste generation based on 1.29 ton/1000 sq ft.

## Honda Center - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	325,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	975,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.99	10.43
tblEnergyUse	NT24E	3.83	13.35
tblEnergyUse	NT24NG	6.86	6.57
tblEnergyUse	T24E	1.63	5.68
tblEnergyUse	T24NG	14.04	13.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1112.39
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	17.89	838.50
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Honda Center - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	10,358.1994	10,358.1994	0.0133	0.0128	10,362.3364
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	1,939.8002	2,028.6314	9.1238	0.2154	2,320.9261
<b>Total</b>	<b>2.7212</b>	<b>0.6396</b>	<b>0.5456</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>12,298.0157</b>	<b>12,557.0549</b>	<b>19.1962</b>	<b>0.2282</b>	<b>13,104.9626</b>

Honda Center - Orange County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	10,358.1994	10,358.1994	0.0133	0.0128	10,362.3364
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	1,939.8002	2,028.6314	9.1238	0.2154	2,320.9261
<b>Total</b>	<b>2.7212</b>	<b>0.6396</b>	<b>0.5456</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>12,298.0157</b>	<b>12,557.0549</b>	<b>19.1962</b>	<b>0.2282</b>	<b>13,104.9626</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/23/2019	2/22/2019	5	0	
2	Architectural Coating	Architectural Coating	9/15/2040	9/14/2040	5	0	

Honda Center - Orange County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Honda Center - Orange County, Annual

**3.3 Architectural Coating - 2040**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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Honda Center - Orange County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

Honda Center - Orange County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,662.0419	9,662.0419	0.0000	0.0000	9,662.0419
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,662.0419	9,662.0419	0.0000	0.0000	9,662.0419
NaturalGas Mitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
NaturalGas Unmitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945

Honda Center - Orange County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

Honda Center - Orange County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	9,662.0419	0.0000	0.0000	9,662.0419
<b>Total</b>		<b>9,662.0419</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9,662.0419</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	9,662.0419	0.0000	0.0000	9,662.0419
<b>Total</b>		<b>9,662.0419</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9,662.0419</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Honda Center - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Unmitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6509</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>



Honda Center - Orange County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6509</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Honda Center - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,028.631 4	9.1238	0.2154	2,320.926 1
Unmitigated	2,028.631 4	9.1238	0.2154	2,320.926 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,028.631 4	9.1238	0.2154	2,320.926 1
<b>Total</b>		<b>2,028.631 4</b>	<b>9.1238</b>	<b>0.2154</b>	<b>2,320.926 1</b>

Honda Center - Orange County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,028.631 4	9.1238	0.2154	2,320.926 1
<b>Total</b>		<b>2,028.631 4</b>	<b>9.1238</b>	<b>0.2154</b>	<b>2,320.926 1</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.2079	10.0590	0.0000	421.6829
Unmitigated	170.2079	10.0590	0.0000	421.6829

Honda Center - Orange County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Honda Center - Orange County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	742.82	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Staples Center - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run to estimate existing emissions from NBA related events and market shifted events.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	742.82
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	4,848.6919	4,848.6919	0.0186	0.0178	4,854.4559
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,829.4175	1,954.8746	12.8856	0.3043	2,367.6846
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7603</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>6,678.1322</b>	<b>7,043.9752</b>	<b>27.1107</b>	<b>0.3220</b>	<b>7,817.7109</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	4,848.6919	4,848.6919	0.0186	0.0178	4,854.4559
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,829.4175	1,954.8746	12.8856	0.3043	2,367.6846
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7603</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>6,678.1322</b>	<b>7,043.9752</b>	<b>27.1107</b>	<b>0.3220</b>	<b>7,817.7109</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

Staples Center - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



Staples Center - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,878.7300	3,878.7300	0.0000	0.0000	3,878.7300
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,878.7300	3,878.7300	0.0000	0.0000	3,878.7300
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,878.7300	0.0000	0.0000	3,878.7300
<b>Total</b>		<b>3,878.7300</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,878.7300</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,878.7300	0.0000	0.0000	3,878.7300
<b>Total</b>		<b>3,878.7300</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,878.7300</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Unmitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0244</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0244</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Staples Center - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,954.874 6	12.8856	0.3043	2,367.684 6
Unmitigated	1,954.874 6	12.8856	0.3043	2,367.684 6

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,954.874 6	12.8856	0.3043	2,367.684 6
<b>Total</b>		<b>1,954.874 6</b>	<b>12.8856</b>	<b>0.3043</b>	<b>2,367.684 6</b>

Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,954.874 6	12.8856	0.3043	2,367.684 6
<b>Total</b>		<b>1,954.874 6</b>	<b>12.8856</b>	<b>0.3043</b>	<b>2,367.684 6</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460



Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Staples Center - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Construction Outputs

IBEC Construction - Run 1 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**IBEC Construction - Run 1 (Tier 4 Final Equipment)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Construction Analysis for Operational Year 2024

Land Use - Land uses provided by the applicant.

Construction Phase - Construction phases and schedule provided by applicant.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Added project-specific construction equipment for the Building Construction phase.

Off-road Equipment - Added project-specific construction equipment for the Demolition phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Added project-specific construction equipment for the Excavation/Grading - Excavation/Retention System phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Trips and VMT - Project-specific construction trips.

Demolition - 5,175 tons of Demolition debris

Grading - 332,700 cubic yards of material exported during Excavation/Grading activities.

Vehicle Trips - Operational trip rates set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Area Coating - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Energy Use - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment required to meet Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	10.00	208.00
tblConstructionPhase	NumDays	30.00	172.00
tblConstructionPhase	NumDays	300.00	501.00
tblConstructionPhase	NumDays	20.00	459.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00

tblEnergyUse	LightingElect	3.03	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	3.24	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	2.77	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	29.10	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00





tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	512.00	4,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	HaulingTripNumber	41,588.00	51,072.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,224.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblTripsAndVMT	WorkerTripNumber	565.00	800.00
tblTripsAndVMT	WorkerTripNumber	113.00	1,200.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00



Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	5.7410	0.9445
2	10-1-2021	12-31-2021	7.7177	2.3464
3	1-1-2022	3-31-2022	9.4088	3.8419
4	4-1-2022	6-30-2022	8.7457	3.5726
5	7-1-2022	9-30-2022	4.6275	1.5122
6	10-1-2022	12-31-2022	5.0501	1.9013
7	1-1-2023	3-31-2023	5.5448	2.6606
8	4-1-2023	6-30-2023	5.5529	2.6366
9	7-1-2023	9-30-2023	5.6139	2.6656
10	10-1-2023	12-31-2023	2.2740	1.6597
11	1-1-2024	3-31-2024	1.5128	1.3999
12	4-1-2024	6-30-2024	0.9280	0.8572
		Highest	9.4088	3.8419

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/31/2021	6	53	
2	Site Preparation - Initial Site Development	Site Preparation	7/1/2021	2/28/2022	6	208	
3	Excavation/Grading - Excavation/Retention System	Grading	11/8/2021	5/26/2022	6	172	
4	Building Construction	Building Construction	3/11/2022	10/16/2023	6	501	
5	Architectural Coating	Architectural Coating	12/9/2022	5/27/2024	6	459	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,065,200; Non-Residential Outdoor: 688,400; Striped Parking

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	14.00	81	0.73
Demolition	Crawler Tractors	1	14.00	275	0.43
Demolition	Excavators	3	14.00	158	0.38
Demolition	Excavators	1	14.00	200	0.38
Demolition	Rubber Tired Dozers	2	14.00	247	0.40
Site Preparation - Initial Site Development	Rubber Tired Dozers	3	14.00	247	0.40
Site Preparation - Initial Site Development	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Excavation/Grading - Excavation/Retention System	Bore/Drill Rigs	1	14.00	221	0.50
Excavation/Grading - Excavation/Retention System	Excavators	2	14.00	158	0.38
Excavation/Grading - Excavation/Retention System	Excavators	1	14.00	200	0.38
Excavation/Grading - Excavation/Retention System	Graders	1	14.00	187	0.41
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	247	0.40
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	215	0.40
Excavation/Grading - Excavation/Retention System	Scrapers	2	14.00	367	0.48
Excavation/Grading - Excavation/Retention System	Skid Steer Loaders	1	14.00	230	0.37
Excavation/Grading - Excavation/Retention System	Tractors/Loaders/Backhoes	2	14.00	97	0.37
Building Construction	Cranes	8	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Welders	1	14.00	46	0.45
Architectural Coating	Air Compressors	1	14.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	40.00	2.00	4,200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Initial Site	7	40.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation/Grading - Excavation/Retention	12	30.00	2.00	51,072.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	800.00	226.00	4,224.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,200.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

### 3.2 Demolition - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	8.3800e-003	0.0000	8.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1843	1.8810	1.2645	2.5800e-003		0.0877	0.0877		0.0813	0.0813	0.0000	225.9160	225.9160	0.0665	0.0000	227.5772
<b>Total</b>	<b>0.1843</b>	<b>1.8810</b>	<b>1.2645</b>	<b>2.5800e-003</b>	<b>0.0554</b>	<b>0.0877</b>	<b>0.1430</b>	<b>8.3800e-003</b>	<b>0.0813</b>	<b>0.0897</b>	<b>0.0000</b>	<b>225.9160</b>	<b>225.9160</b>	<b>0.0665</b>	<b>0.0000</b>	<b>227.5772</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
<b>Total</b>	<b>0.0224</b>	<b>0.5901</b>	<b>0.1771</b>	<b>1.7600e-003</b>	<b>0.0480</b>	<b>1.8500e-003</b>	<b>0.0499</b>	<b>0.0131</b>	<b>1.7600e-003</b>	<b>0.0149</b>	<b>0.0000</b>	<b>171.8712</b>	<b>171.8712</b>	<b>0.0115</b>	<b>0.0000</b>	<b>172.1587</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.1342	1.4291	2.5800e-003		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	225.9157	225.9157	0.0665	0.0000	227.5769
<b>Total</b>	<b>0.0310</b>	<b>0.1342</b>	<b>1.4291</b>	<b>2.5800e-003</b>	<b>0.0216</b>	<b>4.1300e-003</b>	<b>0.0257</b>	<b>3.2700e-003</b>	<b>4.1300e-003</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>225.9157</b>	<b>225.9157</b>	<b>0.0665</b>	<b>0.0000</b>	<b>227.5769</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
<b>Total</b>	<b>0.0224</b>	<b>0.5901</b>	<b>0.1771</b>	<b>1.7600e-003</b>	<b>0.0480</b>	<b>1.8500e-003</b>	<b>0.0499</b>	<b>0.0131</b>	<b>1.7600e-003</b>	<b>0.0149</b>	<b>0.0000</b>	<b>171.8712</b>	<b>171.8712</b>	<b>0.0115</b>	<b>0.0000</b>	<b>172.1587</b>

### 3.3 Site Preparation - Initial Site Development - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4977	0.0000	2.4977	1.3729	0.0000	1.3729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5375	5.5987	2.9246	5.2600e-003		0.2827	0.2827		0.2600	0.2600	0.0000	462.2488	462.2488	0.1495	0.0000	465.9863
<b>Total</b>	<b>0.5375</b>	<b>5.5987</b>	<b>2.9246</b>	<b>5.2600e-003</b>	<b>2.4977</b>	<b>0.2827</b>	<b>2.7803</b>	<b>1.3729</b>	<b>0.2600</b>	<b>1.6330</b>	<b>0.0000</b>	<b>462.2488</b>	<b>462.2488</b>	<b>0.1495</b>	<b>0.0000</b>	<b>465.9863</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
<b>Total</b>	<b>0.0137</b>	<b>0.0122</b>	<b>0.1199</b>	<b>3.5000e-004</b>	<b>0.0348</b>	<b>2.9000e-004</b>	<b>0.0350</b>	<b>9.2300e-003</b>	<b>2.6000e-004</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>31.6841</b>	<b>31.6841</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.7078</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9741	0.0000	0.9741	0.5354	0.0000	0.5354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0644	0.2789	2.8851	5.2600e-003		8.5800e-003	8.5800e-003		8.5800e-003	8.5800e-003	0.0000	462.2482	462.2482	0.1495	0.0000	465.9858
<b>Total</b>	<b>0.0644</b>	<b>0.2789</b>	<b>2.8851</b>	<b>5.2600e-003</b>	<b>0.9741</b>	<b>8.5800e-003</b>	<b>0.9827</b>	<b>0.5354</b>	<b>8.5800e-003</b>	<b>0.5440</b>	<b>0.0000</b>	<b>462.2482</b>	<b>462.2482</b>	<b>0.1495</b>	<b>0.0000</b>	<b>465.9858</b>



### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
<b>Total</b>	<b>0.0137</b>	<b>0.0122</b>	<b>0.1199</b>	<b>3.5000e-004</b>	<b>0.0348</b>	<b>2.9000e-004</b>	<b>0.0350</b>	<b>9.2300e-003</b>	<b>2.6000e-004</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>31.6841</b>	<b>31.6841</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.7078</b>

### 3.3 Site Preparation - Initial Site Development - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7904	0.0000	0.7904	0.4345	0.0000	0.4345	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1387	1.4474	0.8618	1.6600e-003		0.0706	0.0706		0.0649	0.0649	0.0000	146.2973	146.2973	0.0473	0.0000	147.4802
<b>Total</b>	<b>0.1387</b>	<b>1.4474</b>	<b>0.8618</b>	<b>1.6600e-003</b>	<b>0.7904</b>	<b>0.0706</b>	<b>0.8610</b>	<b>0.4345</b>	<b>0.0649</b>	<b>0.4994</b>	<b>0.0000</b>	<b>146.2973</b>	<b>146.2973</b>	<b>0.0473</b>	<b>0.0000</b>	<b>147.4802</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
<b>Total</b>	<b>4.0400e-003</b>	<b>3.4900e-003</b>	<b>0.0350</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.6774</b>	<b>9.6774</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.6842</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3083	0.0000	0.3083	0.1694	0.0000	0.1694	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.0883	0.9130	1.6600e-003		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	146.2972	146.2972	0.0473	0.0000	147.4801
<b>Total</b>	<b>0.0204</b>	<b>0.0883</b>	<b>0.9130</b>	<b>1.6600e-003</b>	<b>0.3083</b>	<b>2.7200e-003</b>	<b>0.3110</b>	<b>0.1694</b>	<b>2.7200e-003</b>	<b>0.1722</b>	<b>0.0000</b>	<b>146.2972</b>	<b>146.2972</b>	<b>0.0473</b>	<b>0.0000</b>	<b>147.4801</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
<b>Total</b>	<b>4.0400e-003</b>	<b>3.4900e-003</b>	<b>0.0350</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.6774</b>	<b>9.6774</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.6842</b>

### 3.4 Excavation/Grading - Excavation/Retention System - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6655	0.0000	0.6655	0.1821	0.0000	0.1821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2294	2.5193	1.5605	3.5100e-003		0.1074	0.1074		0.0988	0.0988	0.0000	308.5991	308.5991	0.0998	0.0000	311.0943
<b>Total</b>	<b>0.2294</b>	<b>2.5193</b>	<b>1.5605</b>	<b>3.5100e-003</b>	<b>0.6655</b>	<b>0.1074</b>	<b>0.7728</b>	<b>0.1821</b>	<b>0.0988</b>	<b>0.2808</b>	<b>0.0000</b>	<b>308.5991</b>	<b>308.5991</b>	<b>0.0998</b>	<b>0.0000</b>	<b>311.0943</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
<b>Total</b>	<b>0.0620</b>	<b>1.9387</b>	<b>0.4783</b>	<b>5.4900e-003</b>	<b>0.3678</b>	<b>5.8500e-003</b>	<b>0.3736</b>	<b>0.0939</b>	<b>5.6000e-003</b>	<b>0.0995</b>	<b>0.0000</b>	<b>540.0501</b>	<b>540.0501</b>	<b>0.0372</b>	<b>0.0000</b>	<b>540.9800</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2595	0.0000	0.2595	0.0710	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.1871	1.7919	3.5100e-003		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	308.5988	308.5988	0.0998	0.0000	311.0939
<b>Total</b>	<b>0.0432</b>	<b>0.1871</b>	<b>1.7919</b>	<b>3.5100e-003</b>	<b>0.2595</b>	<b>5.7600e-003</b>	<b>0.2653</b>	<b>0.0710</b>	<b>5.7600e-003</b>	<b>0.0768</b>	<b>0.0000</b>	<b>308.5988</b>	<b>308.5988</b>	<b>0.0998</b>	<b>0.0000</b>	<b>311.0939</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
<b>Total</b>	<b>0.0620</b>	<b>1.9387</b>	<b>0.4783</b>	<b>5.4900e-003</b>	<b>0.3678</b>	<b>5.8500e-003</b>	<b>0.3736</b>	<b>0.0939</b>	<b>5.6000e-003</b>	<b>0.0995</b>	<b>0.0000</b>	<b>540.0501</b>	<b>540.0501</b>	<b>0.0372</b>	<b>0.0000</b>	<b>540.9800</b>

### 3.4 Excavation/Grading - Excavation/Retention System - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0765	0.0000	1.0765	0.4080	0.0000	0.4080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5224	5.5368	3.9007	9.3500e-003		0.2329	0.2329		0.2143	0.2143	0.0000	821.3300	821.3300	0.2656	0.0000	827.9709
<b>Total</b>	<b>0.5224</b>	<b>5.5368</b>	<b>3.9007</b>	<b>9.3500e-003</b>	<b>1.0765</b>	<b>0.2329</b>	<b>1.3094</b>	<b>0.4080</b>	<b>0.2143</b>	<b>0.6223</b>	<b>0.0000</b>	<b>821.3300</b>	<b>821.3300</b>	<b>0.2656</b>	<b>0.0000</b>	<b>827.9709</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
<b>Total</b>	<b>0.1567</b>	<b>4.7855</b>	<b>1.2531</b>	<b>0.0144</b>	<b>0.4305</b>	<b>0.0135</b>	<b>0.4440</b>	<b>0.1154</b>	<b>0.0130</b>	<b>0.1284</b>	<b>0.0000</b>	<b>1,418.8016</b>	<b>1,418.8016</b>	<b>0.0973</b>	<b>0.0000</b>	<b>1,421.2352</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4198	0.0000	0.4198	0.1591	0.0000	0.1591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1148	0.4976	4.7657	9.3500e-003		0.0153	0.0153		0.0153	0.0153	0.0000	821.3290	821.3290	0.2656	0.0000	827.9699
<b>Total</b>	<b>0.1148</b>	<b>0.4976</b>	<b>4.7657</b>	<b>9.3500e-003</b>	<b>0.4198</b>	<b>0.0153</b>	<b>0.4351</b>	<b>0.1591</b>	<b>0.0153</b>	<b>0.1744</b>	<b>0.0000</b>	<b>821.3290</b>	<b>821.3290</b>	<b>0.2656</b>	<b>0.0000</b>	<b>827.9699</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
<b>Total</b>	<b>0.1567</b>	<b>4.7855</b>	<b>1.2531</b>	<b>0.0144</b>	<b>0.4305</b>	<b>0.0135</b>	<b>0.4440</b>	<b>0.1154</b>	<b>0.0130</b>	<b>0.1284</b>	<b>0.0000</b>	<b>1,418.8016</b>	<b>1,418.8016</b>	<b>0.0973</b>	<b>0.0000</b>	<b>1,421.2352</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9836	10.2362	6.8199	0.0154		0.4624	0.4624		0.4292	0.4292	0.0000	1,340.5762	1,340.5762	0.3904	0.0000	1,350.3359
<b>Total</b>	<b>0.9836</b>	<b>10.2362</b>	<b>6.8199</b>	<b>0.0154</b>		<b>0.4624</b>	<b>0.4624</b>		<b>0.4292</b>	<b>0.4292</b>	<b>0.0000</b>	<b>1,340.5762</b>	<b>1,340.5762</b>	<b>0.3904</b>	<b>0.0000</b>	<b>1,350.3359</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
<b>Total</b>	<b>0.5022</b>	<b>3.2737</b>	<b>4.3350</b>	<b>0.0188</b>	<b>1.3260</b>	<b>0.0147</b>	<b>1.3407</b>	<b>0.3562</b>	<b>0.0138</b>	<b>0.3700</b>	<b>0.0000</b>	<b>1,751.3542</b>	<b>1,751.3542</b>	<b>0.0742</b>	<b>0.0000</b>	<b>1,753.2082</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1883	0.9968	8.1918	0.0154		0.0245	0.0245		0.0245	0.0245	0.0000	1,340.5746	1,340.5746	0.3904	0.0000	1,350.3343
<b>Total</b>	<b>0.1883</b>	<b>0.9968</b>	<b>8.1918</b>	<b>0.0154</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0245</b>	<b>0.0245</b>	<b>0.0000</b>	<b>1,340.5746</b>	<b>1,340.5746</b>	<b>0.3904</b>	<b>0.0000</b>	<b>1,350.3343</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
<b>Total</b>	<b>0.5022</b>	<b>3.2737</b>	<b>4.3350</b>	<b>0.0188</b>	<b>1.3260</b>	<b>0.0147</b>	<b>1.3407</b>	<b>0.3562</b>	<b>0.0138</b>	<b>0.3700</b>	<b>0.0000</b>	<b>1,751.3542</b>	<b>1,751.3542</b>	<b>0.0742</b>	<b>0.0000</b>	<b>1,753.2082</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8933	9.1089	6.5164	0.0150		0.4027	0.4027		0.3737	0.3737	0.0000	1,303.8123	1,303.8123	0.3788	0.0000	1,313.2830
<b>Total</b>	<b>0.8933</b>	<b>9.1089</b>	<b>6.5164</b>	<b>0.0150</b>		<b>0.4027</b>	<b>0.4027</b>		<b>0.3737</b>	<b>0.3737</b>	<b>0.0000</b>	<b>1,303.8123</b>	<b>1,303.8123</b>	<b>0.3788</b>	<b>0.0000</b>	<b>1,313.2830</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
<b>Total</b>	<b>0.4407</b>	<b>2.4231</b>	<b>3.8598</b>	<b>0.0176</b>	<b>1.2902</b>	<b>0.0110</b>	<b>1.3012</b>	<b>0.3466</b>	<b>0.0102</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,643.9764</b>	<b>1,643.9764</b>	<b>0.0644</b>	<b>0.0000</b>	<b>1,645.5868</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1831	0.9694	7.9661	0.0150		0.0238	0.0238		0.0238	0.0238	0.0000	1,303.8108	1,303.8108	0.3788	0.0000	1,313.2815
<b>Total</b>	<b>0.1831</b>	<b>0.9694</b>	<b>7.9661</b>	<b>0.0150</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>	<b>0.0000</b>	<b>1,303.8108</b>	<b>1,303.8108</b>	<b>0.3788</b>	<b>0.0000</b>	<b>1,313.2815</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
<b>Total</b>	<b>0.4407</b>	<b>2.4231</b>	<b>3.8598</b>	<b>0.0176</b>	<b>1.2902</b>	<b>0.0110</b>	<b>1.3012</b>	<b>0.3466</b>	<b>0.0102</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,643.9764</b>	<b>1,643.9764</b>	<b>0.0644</b>	<b>0.0000</b>	<b>1,645.5868</b>

### 3.6 Architectural Coating - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7700e-003	0.0329	0.0423	7.0000e-005	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
<b>Total</b>	<b>0.2828</b>	<b>0.0329</b>	<b>0.0423</b>	<b>7.0000e-005</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>5.9576</b>	<b>5.9576</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.9673</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
<b>Total</b>	<b>0.0484</b>	<b>0.0363</b>	<b>0.4181</b>	<b>1.2700e-003</b>	<b>0.1315</b>	<b>1.0500e-003</b>	<b>0.1326</b>	<b>0.0349</b>	<b>9.7000e-004</b>	<b>0.0359</b>	<b>0.0000</b>	<b>114.4986</b>	<b>114.4986</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>114.5774</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	3.0000e-003	0.0428	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
<b>Total</b>	<b>0.2788</b>	<b>3.0000e-003</b>	<b>0.0428</b>	<b>7.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.9576</b>	<b>5.9576</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.9673</b>



### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
<b>Total</b>	<b>0.0484</b>	<b>0.0363</b>	<b>0.4181</b>	<b>1.2700e-003</b>	<b>0.1315</b>	<b>1.0500e-003</b>	<b>0.1326</b>	<b>0.0349</b>	<b>9.7000e-004</b>	<b>0.0359</b>	<b>0.0000</b>	<b>114.4986</b>	<b>114.4986</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>114.5774</b>

### 3.6 Architectural Coating - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.4743	0.6593	1.0800e-003		0.0258	0.0258		0.0258	0.0258	0.0000	92.9384	92.9384	5.5600e-003	0.0000	93.0774
<b>Total</b>	<b>4.4075</b>	<b>0.4743</b>	<b>0.6593</b>	<b>1.0800e-003</b>		<b>0.0258</b>	<b>0.0258</b>		<b>0.0258</b>	<b>0.0258</b>	<b>0.0000</b>	<b>92.9384</b>	<b>92.9384</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>93.0774</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
<b>Total</b>	<b>0.7102</b>	<b>0.5124</b>	<b>5.9980</b>	<b>0.0190</b>	<b>2.0513</b>	<b>0.0159</b>	<b>2.0673</b>	<b>0.5448</b>	<b>0.0147</b>	<b>0.5595</b>	<b>0.0000</b>	<b>1,720.8163</b>	<b>1,720.8163</b>	<b>0.0443</b>	<b>0.0000</b>	<b>1,721.9238</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0469	0.6670	1.0800e-003		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	92.9383	92.9383	5.5600e-003	0.0000	93.0773
<b>Total</b>	<b>4.3486</b>	<b>0.0469</b>	<b>0.6670</b>	<b>1.0800e-003</b>		<b>1.4400e-003</b>	<b>1.4400e-003</b>		<b>1.4400e-003</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>92.9383</b>	<b>92.9383</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>93.0773</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
<b>Total</b>	<b>0.7102</b>	<b>0.5124</b>	<b>5.9980</b>	<b>0.0190</b>	<b>2.0513</b>	<b>0.0159</b>	<b>2.0673</b>	<b>0.5448</b>	<b>0.0147</b>	<b>0.5595</b>	<b>0.0000</b>	<b>1,720.8163</b>	<b>1,720.8163</b>	<b>0.0443</b>	<b>0.0000</b>	<b>1,721.9238</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.1806	0.2682	4.4000e-004		9.0300e-003	9.0300e-003		9.0300e-003	9.0300e-003	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8840
<b>Total</b>	<b>1.7925</b>	<b>0.1806</b>	<b>0.2682</b>	<b>4.4000e-004</b>		<b>9.0300e-003</b>	<b>9.0300e-003</b>		<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>37.8307</b>	<b>37.8307</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>37.8840</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
<b>Total</b>	<b>0.2738</b>	<b>0.1902</b>	<b>2.2736</b>	<b>7.5000e-003</b>	<b>0.8350</b>	<b>6.3800e-003</b>	<b>0.8414</b>	<b>0.2218</b>	<b>5.8800e-003</b>	<b>0.2277</b>	<b>0.0000</b>	<b>678.7420</b>	<b>678.7420</b>	<b>0.0165</b>	<b>0.0000</b>	<b>679.1552</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0191	0.2715	4.4000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8839
<b>Total</b>	<b>1.7701</b>	<b>0.0191</b>	<b>0.2715</b>	<b>4.4000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>37.8307</b>	<b>37.8307</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>37.8839</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
<b>Total</b>	<b>0.2738</b>	<b>0.1902</b>	<b>2.2736</b>	<b>7.5000e-003</b>	<b>0.8350</b>	<b>6.3800e-003</b>	<b>0.8414</b>	<b>0.2218</b>	<b>5.8800e-003</b>	<b>0.2277</b>	<b>0.0000</b>	<b>678.7420</b>	<b>678.7420</b>	<b>0.0165</b>	<b>0.0000</b>	<b>679.1552</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**IBEC Construction - Run 2 (Tier 4 Final Equipment)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Land uses provided by the applicant. Run 2 land uses only.

Construction Phase - Construction phases and schedule provided by applicant for parking garages and plaza improvements. Run 2: 8/3/2021 - 6/28/2024.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Grading - Based on anticipated material export trips and default acres graded.

Trips and VMT - Project-specific trips for worker trips in the paving phase and haul trips for the building construction hauling to account for concrete trucks. Concrete trucks scaled up to account for East parking structure.

Energy Use - Operational inputs set to zero, as operational emissions are analyzed in a separate CalEEMod run.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment set to Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	61.00
tblConstructionPhase	NumDays	230.00	698.00
tblConstructionPhase	NumDays	20.00	61.00
tblConstructionPhase	NumDays	20.00	61.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/24/2022	6/28/2024
tblConstructionPhase	PhaseEndDate	8/29/2022	2/8/2024
tblConstructionPhase	PhaseEndDate	10/11/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	9/26/2022	4/19/2024
tblConstructionPhase	PhaseEndDate	9/13/2021	9/6/2021

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

tblConstructionPhase	PhaseStartDate	9/27/2022	4/19/2024
tblConstructionPhase	PhaseStartDate	10/12/2021	11/17/2021
tblConstructionPhase	PhaseStartDate	9/14/2021	9/7/2021
tblConstructionPhase	PhaseStartDate	8/30/2022	2/9/2024
tblConstructionPhase	PhaseStartDate	8/31/2021	8/3/2021
tblEnergyUse	LightingElect	1.75	0.00
tblGrading	AcresOfGrading	53.38	30.50
tblGrading	MaterialExported	0.00	296,740.00
tblGrading	MaterialExported	0.00	17,930.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	5.31	3.35
tblOffRoadEquipment	UsageHours	6.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	37,093.00	37,092.00
tblTripsAndVMT	HaulingTripNumber	0.00	10,349.00
tblTripsAndVMT	WorkerTripNumber	15.00	90.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5323	9.0644	3.9132	0.0217	1.4085	0.1692	1.5778	0.5981	0.1570	0.7551	0.0000	2,079.6685	2,079.6685	0.2109	0.0000	2,084.9406
2022	1.0256	9.0963	9.3343	0.0298	1.3997	0.2538	1.6535	0.3770	0.2385	0.6154	0.0000	2,736.2381	2,736.2381	0.2609	0.0000	2,742.7609
2023	0.9249	7.5919	8.8802	0.0289	1.3954	0.2165	1.6119	0.3758	0.2033	0.5791	0.0000	2,656.8195	2,656.8195	0.2491	0.0000	2,663.0478
2024	0.3930	1.4048	2.0449	5.1900e-003	0.2838	0.0507	0.3346	0.0748	0.0474	0.1222	0.0000	469.7556	469.7556	0.0638	0.0000	471.3503
<b>Maximum</b>	<b>1.0256</b>	<b>9.0963</b>	<b>9.3343</b>	<b>0.0298</b>	<b>1.4085</b>	<b>0.2538</b>	<b>1.6535</b>	<b>0.5981</b>	<b>0.2385</b>	<b>0.7551</b>	<b>0.0000</b>	<b>2,736.2381</b>	<b>2,736.2381</b>	<b>0.2609</b>	<b>0.0000</b>	<b>2,742.7609</b>



IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2826	6.2579	4.0407	0.0217	0.9025	0.0244	0.9269	0.3286	0.0235	0.3521	0.0000	2,079.668 1	2,079.668 1	0.2109	0.0000	2,084.940 3
2022	0.6247	5.1437	9.6696	0.0298	1.3997	0.0291	1.4288	0.3770	0.0280	0.4050	0.0000	2,736.237 3	2,736.237 3	0.2609	0.0000	2,742.760 1
2023	0.5639	4.0148	9.2496	0.0289	1.3954	0.0242	1.4196	0.3758	0.0234	0.3992	0.0000	2,656.818 7	2,656.818 7	0.2491	0.0000	2,663.046 9
2024	0.3083	0.5240	2.2318	5.1900e-003	0.2838	5.4500e-003	0.2893	0.0748	5.3100e-003	0.0801	0.0000	469.7554	469.7554	0.0638	0.0000	471.3500
Maximum	0.6247	6.2579	9.6696	0.0298	1.3997	0.0291	1.4288	0.3770	0.0280	0.4050	0.0000	2,736.237 3	2,736.237 3	0.2609	0.0000	2,742.760 1

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	38.12	41.30	-4.22	0.00	11.28	87.96	21.50	18.90	87.58	40.32	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-3-2021	11-2-2021	6.7736	4.6010
2	11-3-2021	2-2-2022	3.5712	2.3039
3	2-3-2022	5-2-2022	2.4512	1.3902
4	5-3-2022	8-2-2022	2.5215	1.4247
5	8-3-2022	11-2-2022	2.5284	1.4316
6	11-3-2022	2-2-2023	2.4005	1.3400
7	2-3-2023	5-2-2023	2.0738	1.1109
8	5-3-2023	8-2-2023	2.1333	1.1380

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

9	8-3-2023	11-2-2023	2.1391	1.1438
10	11-3-2023	2-2-2024	2.1165	1.1489
11	2-3-2024	5-2-2024	0.7761	0.2187
12	5-3-2024	8-2-2024	0.2644	0.1937
		Highest	6.7736	4.6010

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1229</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1229</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/3/2021	9/6/2021	6	30	
2	Grading	Grading	9/7/2021	11/16/2021	6	61	
3	Building Construction	Building Construction	11/17/2021	2/8/2024	6	698	
4	Paving	Paving	2/9/2024	4/19/2024	6	61	
5	Architectural Coating	Architectural Coating	4/19/2024	6/28/2024	6	61	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 30.5**

**Acres of Paving: 9.28**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 89,930 (Architectural Coating – sqft)**

**OffRoad Equipment**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	14.00	78	0.48
Grading	Excavators	1	14.00	158	0.38
Building Construction	Cranes	1	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Paving	Pavers	2	14.00	130	0.42
Paving	Rollers	2	14.00	80	0.38
Grading	Rubber Tired Dozers	1	14.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Grading	Graders	1	14.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Paving	Paving Equipment	2	14.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	14.00	247	0.40
Building Construction	Welders	1	14.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	2,241.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	37,092.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	630.00	246.00	10,349.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	90.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	126.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4753	0.0000	0.4753	0.2608	0.0000	0.2608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1021	1.0631	0.5553	1.0000e-003		0.0537	0.0537		0.0494	0.0494	0.0000	87.7688	87.7688	0.0284	0.0000	88.4784
<b>Total</b>	<b>0.1021</b>	<b>1.0631</b>	<b>0.5553</b>	<b>1.0000e-003</b>	<b>0.4753</b>	<b>0.0537</b>	<b>0.5289</b>	<b>0.2608</b>	<b>0.0494</b>	<b>0.3102</b>	<b>0.0000</b>	<b>87.7688</b>	<b>87.7688</b>	<b>0.0284</b>	<b>0.0000</b>	<b>88.4784</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4400e-003	0.3102	0.0723	8.7000e-004	0.0193	9.3000e-004	0.0202	5.2900e-003	8.9000e-004	6.1800e-003	0.0000	85.4153	85.4153	5.9300e-003	0.0000	85.5635
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.0000e-004	0.0102	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6701	2.6701	8.0000e-005	0.0000	2.6720
<b>Total</b>	<b>0.0106</b>	<b>0.3111</b>	<b>0.0825</b>	<b>9.0000e-004</b>	<b>0.0222</b>	<b>9.5000e-004</b>	<b>0.0232</b>	<b>6.0800e-003</b>	<b>9.1000e-004</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>88.0854</b>	<b>88.0854</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>88.2355</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1854	0.0000	0.1854	0.1017	0.0000	0.1017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0530	0.5478	1.0000e-003		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	87.7687	87.7687	0.0284	0.0000	88.4783
<b>Total</b>	<b>0.0122</b>	<b>0.0530</b>	<b>0.5478</b>	<b>1.0000e-003</b>	<b>0.1854</b>	<b>1.6300e-003</b>	<b>0.1870</b>	<b>0.1017</b>	<b>1.6300e-003</b>	<b>0.1034</b>	<b>0.0000</b>	<b>87.7687</b>	<b>87.7687</b>	<b>0.0284</b>	<b>0.0000</b>	<b>88.4783</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4400e-003	0.3102	0.0723	8.7000e-004	0.0193	9.3000e-004	0.0202	5.2900e-003	8.9000e-004	6.1800e-003	0.0000	85.4153	85.4153	5.9300e-003	0.0000	85.5635
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.0000e-004	0.0102	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6701	2.6701	8.0000e-005	0.0000	2.6720
<b>Total</b>	<b>0.0106</b>	<b>0.3111</b>	<b>0.0825</b>	<b>9.0000e-004</b>	<b>0.0222</b>	<b>9.5000e-004</b>	<b>0.0232</b>	<b>6.0800e-003</b>	<b>9.1000e-004</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>88.0854</b>	<b>88.0854</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>88.2355</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3544	0.0000	0.3544	0.1810	0.0000	0.1810	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.3203	0.8464	1.5800e-003		0.0619	0.0619		0.0570	0.0570	0.0000	139.0616	139.0616	0.0450	0.0000	140.1860
<b>Total</b>	<b>0.1223</b>	<b>1.3203</b>	<b>0.8464</b>	<b>1.5800e-003</b>	<b>0.3544</b>	<b>0.0619</b>	<b>0.4163</b>	<b>0.1810</b>	<b>0.0570</b>	<b>0.2379</b>	<b>0.0000</b>	<b>139.0616</b>	<b>139.0616</b>	<b>0.0450</b>	<b>0.0000</b>	<b>140.1860</b>



IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1562	5.1340	1.1971	0.0144	0.3187	0.0154	0.3341	0.0875	0.0147	0.1022	0.0000	1,413.7546	1,413.7546	0.0981	0.0000	1,416.2077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.5300e-003	0.0173	5.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3300e-003	4.0000e-005	1.3700e-003	0.0000	4.5243	4.5243	1.3000e-004	0.0000	4.5276
<b>Total</b>	<b>0.1582</b>	<b>5.1355</b>	<b>1.2144</b>	<b>0.0144</b>	<b>0.3238</b>	<b>0.0154</b>	<b>0.3392</b>	<b>0.0889</b>	<b>0.0147</b>	<b>0.1036</b>	<b>0.0000</b>	<b>1,418.2789</b>	<b>1,418.2789</b>	<b>0.0983</b>	<b>0.0000</b>	<b>1,420.7354</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1382	0.0000	0.1382	0.0706	0.0000	0.0706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.0840	0.9476	1.5800e-003		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	139.0614	139.0614	0.0450	0.0000	140.1858
<b>Total</b>	<b>0.0194</b>	<b>0.0840</b>	<b>0.9476</b>	<b>1.5800e-003</b>	<b>0.1382</b>	<b>2.5800e-003</b>	<b>0.1408</b>	<b>0.0706</b>	<b>2.5800e-003</b>	<b>0.0732</b>	<b>0.0000</b>	<b>139.0614</b>	<b>139.0614</b>	<b>0.0450</b>	<b>0.0000</b>	<b>140.1858</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1562	5.1340	1.1971	0.0144	0.3187	0.0154	0.3341	0.0875	0.0147	0.1022	0.0000	1,413.7546	1,413.7546	0.0981	0.0000	1,416.2077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.5300e-003	0.0173	5.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3300e-003	4.0000e-005	1.3700e-003	0.0000	4.5243	4.5243	1.3000e-004	0.0000	4.5276
<b>Total</b>	<b>0.1582</b>	<b>5.1355</b>	<b>1.2144</b>	<b>0.0144</b>	<b>0.3238</b>	<b>0.0154</b>	<b>0.3392</b>	<b>0.0889</b>	<b>0.0147</b>	<b>0.1036</b>	<b>0.0000</b>	<b>1,418.2789</b>	<b>1,418.2789</b>	<b>0.0983</b>	<b>0.0000</b>	<b>1,420.7354</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0690	0.6398	0.6030	9.8000e-004		0.0350	0.0350		0.0328	0.0328	0.0000	84.7016	84.7016	0.0209	0.0000	85.2241
<b>Total</b>	<b>0.0690</b>	<b>0.6398</b>	<b>0.6030</b>	<b>9.8000e-004</b>		<b>0.0350</b>	<b>0.0350</b>		<b>0.0328</b>	<b>0.0328</b>	<b>0.0000</b>	<b>84.7016</b>	<b>84.7016</b>	<b>0.0209</b>	<b>0.0000</b>	<b>85.2241</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4400e-003	0.0800	0.0187	2.2000e-004	0.0681	2.4000e-004	0.0683	0.0169	2.3000e-004	0.0171	0.0000	22.0395	22.0395	1.5300e-003	0.0000	22.0777
Vendor	0.0149	0.4734	0.1284	1.2200e-003	0.0302	9.7000e-004	0.0312	8.7200e-003	9.2000e-004	9.6400e-003	0.0000	118.2444	118.2444	7.2500e-003	0.0000	118.4257
Worker	0.0529	0.0412	0.4646	1.3400e-003	0.1346	1.1100e-003	0.1357	0.0358	1.0200e-003	0.0368	0.0000	121.4885	121.4885	3.5700e-003	0.0000	121.5778
<b>Total</b>	<b>0.0702</b>	<b>0.5946</b>	<b>0.6116</b>	<b>2.7800e-003</b>	<b>0.2329</b>	<b>2.3200e-003</b>	<b>0.2353</b>	<b>0.0613</b>	<b>2.1700e-003</b>	<b>0.0635</b>	<b>0.0000</b>	<b>261.7724</b>	<b>261.7724</b>	<b>0.0124</b>	<b>0.0000</b>	<b>262.0813</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0120	0.0797	0.6369	9.8000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	84.7015	84.7015	0.0209	0.0000	85.2240
<b>Total</b>	<b>0.0120</b>	<b>0.0797</b>	<b>0.6369</b>	<b>9.8000e-004</b>		<b>1.5000e-003</b>	<b>1.5000e-003</b>		<b>1.5000e-003</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>84.7015</b>	<b>84.7015</b>	<b>0.0209</b>	<b>0.0000</b>	<b>85.2240</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4400e-003	0.0800	0.0187	2.2000e-004	0.0681	2.4000e-004	0.0683	0.0169	2.3000e-004	0.0171	0.0000	22.0395	22.0395	1.5300e-003	0.0000	22.0777
Vendor	0.0149	0.4734	0.1284	1.2200e-003	0.0302	9.7000e-004	0.0312	8.7200e-003	9.2000e-004	9.6400e-003	0.0000	118.2444	118.2444	7.2500e-003	0.0000	118.4257
Worker	0.0529	0.0412	0.4646	1.3400e-003	0.1346	1.1100e-003	0.1357	0.0358	1.0200e-003	0.0368	0.0000	121.4885	121.4885	3.5700e-003	0.0000	121.5778
<b>Total</b>	<b>0.0702</b>	<b>0.5946</b>	<b>0.6116</b>	<b>2.7800e-003</b>	<b>0.2329</b>	<b>2.3200e-003</b>	<b>0.2353</b>	<b>0.0613</b>	<b>2.1700e-003</b>	<b>0.0635</b>	<b>0.0000</b>	<b>261.7724</b>	<b>261.7724</b>	<b>0.0124</b>	<b>0.0000</b>	<b>262.0813</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4970	4.5921	4.7762	7.8900e-003		0.2368	0.2368		0.2225	0.2225	0.0000	680.0597	680.0597	0.1667	0.0000	684.2280
<b>Total</b>	<b>0.4970</b>	<b>4.5921</b>	<b>4.7762</b>	<b>7.8900e-003</b>		<b>0.2368</b>	<b>0.2368</b>		<b>0.2225</b>	<b>0.2225</b>	<b>0.0000</b>	<b>680.0597</b>	<b>680.0597</b>	<b>0.1667</b>	<b>0.0000</b>	<b>684.2280</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0186	0.5962	0.1481	1.7700e-003	0.0768	1.6700e-003	0.0784	0.0200	1.6000e-003	0.0216	0.0000	174.7775	174.7775	0.0121	0.0000	175.0797
Vendor	0.1122	3.6097	0.9747	9.6900e-003	0.2425	6.7700e-003	0.2493	0.0700	6.4800e-003	0.0765	0.0000	940.6520	940.6520	0.0562	0.0000	942.0566
Worker	0.3978	0.2983	3.4354	0.0104	1.0804	8.6300e-003	1.0890	0.2870	7.9500e-003	0.2949	0.0000	940.7489	940.7489	0.0259	0.0000	941.3966
<b>Total</b>	<b>0.5286</b>	<b>4.5042</b>	<b>4.5581</b>	<b>0.0219</b>	<b>1.3997</b>	<b>0.0171</b>	<b>1.4168</b>	<b>0.3770</b>	<b>0.0160</b>	<b>0.3930</b>	<b>0.0000</b>	<b>2,056.1784</b>	<b>2,056.1784</b>	<b>0.0942</b>	<b>0.0000</b>	<b>2,058.5329</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0961	0.6395	5.1114	7.8900e-003		0.0120	0.0120		0.0120	0.0120	0.0000	680.0589	680.0589	0.1667	0.0000	684.2272
<b>Total</b>	<b>0.0961</b>	<b>0.6395</b>	<b>5.1114</b>	<b>7.8900e-003</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>680.0589</b>	<b>680.0589</b>	<b>0.1667</b>	<b>0.0000</b>	<b>684.2272</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0186	0.5962	0.1481	1.7700e-003	0.0768	1.6700e-003	0.0784	0.0200	1.6000e-003	0.0216	0.0000	174.7775	174.7775	0.0121	0.0000	175.0797
Vendor	0.1122	3.6097	0.9747	9.6900e-003	0.2425	6.7700e-003	0.2493	0.0700	6.4800e-003	0.0765	0.0000	940.6520	940.6520	0.0562	0.0000	942.0566
Worker	0.3978	0.2983	3.4354	0.0104	1.0804	8.6300e-003	1.0890	0.2870	7.9500e-003	0.2949	0.0000	940.7489	940.7489	0.0259	0.0000	941.3966
<b>Total</b>	<b>0.5286</b>	<b>4.5042</b>	<b>4.5581</b>	<b>0.0219</b>	<b>1.3997</b>	<b>0.0171</b>	<b>1.4168</b>	<b>0.3770</b>	<b>0.0160</b>	<b>0.3930</b>	<b>0.0000</b>	<b>2,056.1784</b>	<b>2,056.1784</b>	<b>0.0942</b>	<b>0.0000</b>	<b>2,058.5329</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4569	4.2145	4.7256	7.8700e-003		0.2042	0.2042		0.1919	0.1919	0.0000	678.1350	678.1350	0.1652	0.0000	682.2649
<b>Total</b>	<b>0.4569</b>	<b>4.2145</b>	<b>4.7256</b>	<b>7.8700e-003</b>		<b>0.2042</b>	<b>0.2042</b>		<b>0.1919</b>	<b>0.1919</b>	<b>0.0000</b>	<b>678.1350</b>	<b>678.1350</b>	<b>0.1652</b>	<b>0.0000</b>	<b>682.2649</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0122	0.3899	0.1339	1.6900e-003	0.0767	7.0000e-004	0.0774	0.0200	6.7000e-004	0.0207	0.0000	166.9634	166.9634	0.0112	0.0000	167.2431
Vendor	0.0831	2.7185	0.8717	9.3500e-003	0.2417	3.1700e-003	0.2449	0.0698	3.0300e-003	0.0728	0.0000	908.2925	908.2925	0.0495	0.0000	909.5298
Worker	0.3729	0.2690	3.1489	9.9900e-003	1.0770	8.3500e-003	1.0853	0.2860	7.6900e-003	0.2937	0.0000	903.4286	903.4286	0.0233	0.0000	904.0100
<b>Total</b>	<b>0.4681</b>	<b>3.3774</b>	<b>4.1545</b>	<b>0.0210</b>	<b>1.3954</b>	<b>0.0122</b>	<b>1.4077</b>	<b>0.3758</b>	<b>0.0114</b>	<b>0.3872</b>	<b>0.0000</b>	<b>1,978.6845</b>	<b>1,978.6845</b>	<b>0.0839</b>	<b>0.0000</b>	<b>1,980.7829</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0958	0.6374	5.0951	7.8700e-003		0.0120	0.0120		0.0120	0.0120	0.0000	678.1342	678.1342	0.1652	0.0000	682.2641
<b>Total</b>	<b>0.0958</b>	<b>0.6374</b>	<b>5.0951</b>	<b>7.8700e-003</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>678.1342</b>	<b>678.1342</b>	<b>0.1652</b>	<b>0.0000</b>	<b>682.2641</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0122	0.3899	0.1339	1.6900e-003	0.0767	7.0000e-004	0.0774	0.0200	6.7000e-004	0.0207	0.0000	166.9634	166.9634	0.0112	0.0000	167.2431
Vendor	0.0831	2.7185	0.8717	9.3500e-003	0.2417	3.1700e-003	0.2449	0.0698	3.0300e-003	0.0728	0.0000	908.2925	908.2925	0.0495	0.0000	909.5298
Worker	0.3729	0.2690	3.1489	9.9900e-003	1.0770	8.3500e-003	1.0853	0.2860	7.6900e-003	0.2937	0.0000	903.4286	903.4286	0.0233	0.0000	904.0100
<b>Total</b>	<b>0.4681</b>	<b>3.3774</b>	<b>4.1545</b>	<b>0.0210</b>	<b>1.3954</b>	<b>0.0122</b>	<b>1.4077</b>	<b>0.3758</b>	<b>0.0114</b>	<b>0.3872</b>	<b>0.0000</b>	<b>1,978.6845</b>	<b>1,978.6845</b>	<b>0.0839</b>	<b>0.0000</b>	<b>1,980.7829</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0466	0.4291	0.5125	8.6000e-004		0.0195	0.0195		0.0183	0.0183	0.0000	73.9144	73.9144	0.0179	0.0000	74.3621
<b>Total</b>	<b>0.0466</b>	<b>0.4291</b>	<b>0.5125</b>	<b>8.6000e-004</b>		<b>0.0195</b>	<b>0.0195</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>73.9144</b>	<b>73.9144</b>	<b>0.0179</b>	<b>0.0000</b>	<b>74.3621</b>



IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0422	0.0148	1.8000e-004	0.0679	8.0000e-005	0.0680	0.0168	7.0000e-005	0.0169	0.0000	18.1129	18.1129	1.2200e-003	0.0000	18.1433
Vendor	8.8300e-003	0.2951	0.0921	1.0100e-003	0.0263	3.4000e-004	0.0267	7.6000e-003	3.3000e-004	7.9300e-003	0.0000	98.5863	98.5863	5.3100e-003	0.0000	98.7191
Worker	0.0385	0.0267	0.3196	1.0500e-003	0.1174	9.0000e-004	0.1183	0.0312	8.3000e-004	0.0320	0.0000	95.3980	95.3980	2.3200e-003	0.0000	95.4561
<b>Total</b>	<b>0.0487</b>	<b>0.3641</b>	<b>0.4264</b>	<b>2.2400e-003</b>	<b>0.2116</b>	<b>1.3200e-003</b>	<b>0.2130</b>	<b>0.0556</b>	<b>1.2300e-003</b>	<b>0.0568</b>	<b>0.0000</b>	<b>212.0971</b>	<b>212.0971</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>212.3185</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0695	0.5552	8.6000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	73.9143	73.9143	0.0179	0.0000	74.3620
<b>Total</b>	<b>0.0104</b>	<b>0.0695</b>	<b>0.5552</b>	<b>8.6000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>73.9143</b>	<b>73.9143</b>	<b>0.0179</b>	<b>0.0000</b>	<b>74.3620</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0422	0.0148	1.8000e-004	0.0679	8.0000e-005	0.0680	0.0168	7.0000e-005	0.0169	0.0000	18.1129	18.1129	1.2200e-003	0.0000	18.1433
Vendor	8.8300e-003	0.2951	0.0921	1.0100e-003	0.0263	3.4000e-004	0.0267	7.6000e-003	3.3000e-004	7.9300e-003	0.0000	98.5863	98.5863	5.3100e-003	0.0000	98.7191
Worker	0.0385	0.0267	0.3196	1.0500e-003	0.1174	9.0000e-004	0.1183	0.0312	8.3000e-004	0.0320	0.0000	95.3980	95.3980	2.3200e-003	0.0000	95.4561
<b>Total</b>	<b>0.0487</b>	<b>0.3641</b>	<b>0.4264</b>	<b>2.2400e-003</b>	<b>0.2116</b>	<b>1.3200e-003</b>	<b>0.2130</b>	<b>0.0556</b>	<b>1.2300e-003</b>	<b>0.0568</b>	<b>0.0000</b>	<b>212.0971</b>	<b>212.0971</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>212.3185</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0527	0.5084	0.7807	1.2200e-003		0.0250	0.0250		0.0230	0.0230	0.0000	106.8916	106.8916	0.0346	0.0000	107.7559
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0527</b>	<b>0.5084</b>	<b>0.7807</b>	<b>1.2200e-003</b>		<b>0.0250</b>	<b>0.0250</b>		<b>0.0230</b>	<b>0.0230</b>	<b>0.0000</b>	<b>106.8916</b>	<b>106.8916</b>	<b>0.0346</b>	<b>0.0000</b>	<b>107.7559</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8600e-003	6.8500e-003	0.0819	2.7000e-004	0.0301	2.3000e-004	0.0303	7.9900e-003	2.1000e-004	8.2000e-003	0.0000	24.4508	24.4508	6.0000e-004	0.0000	24.4656
<b>Total</b>	<b>9.8600e-003</b>	<b>6.8500e-003</b>	<b>0.0819</b>	<b>2.7000e-004</b>	<b>0.0301</b>	<b>2.3000e-004</b>	<b>0.0303</b>	<b>7.9900e-003</b>	<b>2.1000e-004</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>24.4508</b>	<b>24.4508</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>24.4656</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0150	0.0649	0.9232	1.2200e-003		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	106.8915	106.8915	0.0346	0.0000	107.7558
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0150</b>	<b>0.0649</b>	<b>0.9232</b>	<b>1.2200e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>106.8915</b>	<b>106.8915</b>	<b>0.0346</b>	<b>0.0000</b>	<b>107.7558</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8600e-003	6.8500e-003	0.0819	2.7000e-004	0.0301	2.3000e-004	0.0303	7.9900e-003	2.1000e-004	8.2000e-003	0.0000	24.4508	24.4508	6.0000e-004	0.0000	24.4656
<b>Total</b>	<b>9.8600e-003</b>	<b>6.8500e-003</b>	<b>0.0819</b>	<b>2.7000e-004</b>	<b>0.0301</b>	<b>2.3000e-004</b>	<b>0.0303</b>	<b>7.9900e-003</b>	<b>2.1000e-004</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>24.4508</b>	<b>24.4508</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>24.4656</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.0867	0.1288	2.1000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	18.1707	18.1707	1.0200e-003	0.0000	18.1962
<b>Total</b>	<b>0.2213</b>	<b>0.0867</b>	<b>0.1288</b>	<b>2.1000e-004</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>	<b>0.0000</b>	<b>18.1707</b>	<b>18.1707</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>18.1962</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0138	9.5900e-003	0.1147	3.8000e-004	0.0421	3.2000e-004	0.0424	0.0112	3.0000e-004	0.0115	0.0000	34.2310	34.2310	8.3000e-004	0.0000	34.2519
<b>Total</b>	<b>0.0138</b>	<b>9.5900e-003</b>	<b>0.1147</b>	<b>3.8000e-004</b>	<b>0.0421</b>	<b>3.2000e-004</b>	<b>0.0424</b>	<b>0.0112</b>	<b>3.0000e-004</b>	<b>0.0115</b>	<b>0.0000</b>	<b>34.2310</b>	<b>34.2310</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>34.2519</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1100e-003	9.1600e-003	0.1304	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.1706	18.1706	1.0200e-003	0.0000	18.1962
<b>Total</b>	<b>0.2105</b>	<b>9.1600e-003</b>	<b>0.1304</b>	<b>2.1000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>18.1706</b>	<b>18.1706</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>18.1962</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0138	9.5900e-003	0.1147	3.8000e-004	0.0421	3.2000e-004	0.0424	0.0112	3.0000e-004	0.0115	0.0000	34.2310	34.2310	8.3000e-004	0.0000	34.2519
<b>Total</b>	<b>0.0138</b>	<b>9.5900e-003</b>	<b>0.1147</b>	<b>3.8000e-004</b>	<b>0.0421</b>	<b>3.2000e-004</b>	<b>0.0424</b>	<b>0.0112</b>	<b>3.0000e-004</b>	<b>0.0115</b>	<b>0.0000</b>	<b>34.2310</b>	<b>34.2310</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>34.2519</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix







IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
Unmitigated	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2200e-003	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
<b>Total</b>	<b>0.1230</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2200e-003	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
<b>Total</b>	<b>0.1230</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**IBEC Demolition of Additional Parcels Under Variants**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Only demolition run.

Construction Phase - Based on demo schedule

Off-road Equipment - demo only

Off-road Equipment - Additional demolition equipment.

Trips and VMT - Additional trips for demolition of buildings under variants.

Demolition - Additional variant buildings to be demolished.

Architectural Coating - Demolition run only.

Vehicle Trips - Demolition run only.

Area Coating - Demolition run only.

Energy Use - Demolition run only.

Water And Wastewater - Demolition run only.

Solid Waste - Demolition run only.

Construction Off-road Equipment Mitigation - Tier 4 Final equipment included.

## IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	8.59	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.93	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	177,733.75	0.00
tblWater	OutdoorWaterUseRate	108,933.59	0.00

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	78.89	90.79	-3.53	0.00	0.00	95.44	67.59	0.00	95.22	86.62	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	0.1790	0.0186
		Highest	0.1790	0.0186

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.6100e-003	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/20/2021	6	44	
2	Architectural Coating	Architectural Coating	12/14/2022	12/13/2022	5	0	

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	11.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1596	0.1665	2.6000e-004		8.9600e-003	8.9600e-003		8.5500e-003	8.5500e-003	0.0000	22.9006	22.9006	4.2700e-003	0.0000	23.0073
<b>Total</b>	<b>0.0175</b>	<b>0.1596</b>	<b>0.1665</b>	<b>2.6000e-004</b>	<b>1.1900e-003</b>	<b>8.9600e-003</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>8.5500e-003</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>22.9006</b>	<b>22.9006</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>23.0073</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>1.0000e-003</b>	<b>2.2600e-003</b>	<b>8.6800e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.5949</b>	<b>2.5949</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.5972</b>



IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9200e-003	0.0126	0.1727	2.6000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	22.9005	22.9005	4.2700e-003	0.0000	23.0072
<b>Total</b>	<b>2.9200e-003</b>	<b>0.0126</b>	<b>0.1727</b>	<b>2.6000e-004</b>	<b>1.1900e-003</b>	<b>3.9000e-004</b>	<b>1.5800e-003</b>	<b>1.8000e-004</b>	<b>3.9000e-004</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>22.9005</b>	<b>22.9005</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>23.0072</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>1.0000e-003</b>	<b>2.2600e-003</b>	<b>8.6800e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.5949</b>	<b>2.5949</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.5972</b>



IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>



IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**Attachment 3, Exhibit 1**  
**Staples Center Vacated Event Days Analysis**



May 14, 2019

Mr. Chris Holmquist Project  
Manager  
Wilson Meany  
6701 Center Drive, Suite  
950 Los Angeles, CA 90045

**SUBJECT: STAPLES CENTER VACATED EVENT DAYS ANALYSIS**

Dear Mr. Holmquist:

Conventions, Sports & Leisure International ("CSL") has prepared an analysis related to the potential vacated event days at Staples Center due to the development of a new arena in Inglewood (the Inglewood Basketball and Entertainment Center or "IBEC") for the LA Clippers ("Clippers"). Specifically, Wilson Meany has asked CSL to quantify the number of third-party events that could occupy the available dates at Staples Center vacated by the Clippers.

CSL reviewed the Clippers home game schedule, along with those of the Los Angeles Lakers ("Lakers"), Los Angeles Kings ("Kings"), and Los Angeles Sparks ("Sparks") to understand the mix of tenant and non-tenant event activity each calendar year. Based on an analysis of event data from the 2016 to 2018 calendar years, CSL identified three key types of dates with distinct booking tendencies, including "double-booked" event days during which two tenants played on the same day, Monday-Thursday dates available for third-party events, and Friday-Sunday dates available for third-party events.

CSL has prepared an analysis that provides an overview of existing event activity at Staples Center, a summary of the number of dates that could be vacated by the Clippers, and historical third-party booking rates of available dates at Staples Center.

The analysis presented in this letter supports the following conclusions regarding available dates at Staples Center vacated by the Clippers:

- Staples Center hosts a robust level of event activity and would seek to occupy available dates vacated by the Clippers with various third-party events such as concerts, family shows, or other sporting or entertainment events.
- It is reasonable to assume that double-booked event days during which the Clippers played on the same day as another tenant would not be occupied by any other use, as only another professional sports team could accommodate a double-booked event day. Additionally, it is

reasonable to assume that the Kings or Lakers would not increase their double-booked days, as the earlier 12:30 PM start time on double-booked event days is not desirable. Further, the Lakers or Kings could seek to reduce any double-booked home game event days by occupying vacated Clippers dates.

- It is reasonable to assume that some of the Clippers-only days would be occupied by third-party events at Staples Center. Based on an analysis of historical third-party booking rates, Friday, Saturday, and Sunday dates are more desirable for major event activity and are booked at a greater rate than Monday-Thursday dates. It is reasonable to assume that Staples Center would achieve similar booking rates for any dates that become available as the Clippers relocate to IBEC.

This letter outlines the key finding related to an analysis of potential event activity and vacated event days at Staples Center. It should be read in its entirety to obtain the background, methods, and assumptions underlying the findings.



## OVERVIEW OF CLIPPERS HOME GAMES AT STAPLES CENTER

The table below presents a summary of Clippers home games played at Staples Center during the 2016 to 2018 calendar years, including the number of games played on the same day as the Lakers or the Kings, Clippers-only event days that occurred Monday-Thursday, and Clippers-only event days that took place Friday, Saturday, or Sunday.

Clippers Home Games – 2016, 2017, and 2018 Calendar Years (Preseason, Regular Season, and Postseason Games)				
	Clippers Double-Booked with NBA or NHL	Clippers-Only Monday- Thursday	Clippers-Only Friday, Saturday, Sunday	Total Clippers Home Games
2016	12	29	7	48
2017	11	27	9	47
2018	12	26	7	45
<b>Three-Year Average</b>	<b>12</b>	<b>27</b>	<b>8</b>	<b>47</b>

As shown, the Clippers played an average of 47 home games during the 2016 to 2018 calendar years. On average, 12 of those home game event days were double-booked event days during which the Clippers played on the same day as the Lakers or the Kings. Over the same three-year period, there were an average of two double-booked event days during which the Lakers and Kings played on the same day at Staples Center.

It is reasonable to assume that those double-booked event days would not be occupied by any other use, as only another professional sports team could accommodate a double-booked event day. Additionally, it is reasonable to assume that the Kings or Lakers would not increase their double-booked days, as the earlier 12:30 PM start time on double-booked event days is not desirable and could negatively impact attendance. In fact, the Lakers or Kings may seek to eliminate any double-booked home game event days by occupying vacated Clippers dates.

However, it is reasonable to assume that Staples Center would seek to occupy the Clippers-only days with third-party event activity. In order to estimate the number of third-party events that will occupy the vacated dates, it is important to analyze historical third-party booking rates of currently available dates at the Staples Center.

## OVERVIEW OF THIRD-PARTY EVENT ACTIVITY AT STAPLES CENTER

The table on the following page summarizes third-party event activity that occurred during the NBA season months of January to April and October to December throughout the 2016 to 2018 calendar years, including the number of events that took place Monday-Thursday and Friday, Saturday, or Sunday compared to the total available dates.

Third-Party Event Activity – 2016, 2017, and 2018 NBA Seasons (January-April and October-December)						
	Monday-Thursday			Friday, Saturday, Sunday		
	Third-Party Events	Total Available Dates	Third-Party Booking Rate	Third-Party Events	Total Available Dates	Third-Party Booking Rate
2016	7	46	15.2%	15	39	38.5%
2017	6	45	13.3%	12	41	29.3%
2018	10	50	20.0%	22	44	50.0%
<b>Three-Year Average</b>	<b>8</b>	<b>47</b>	<b>16.3%</b>	<b>16</b>	<b>41</b>	<b>39.5%</b>

As shown, from 2016 to 2018, Staples Center hosted a third-party event on an average of eight days of the total 47 available Monday-Thursday dates. For that three-year period, the average attendance at third-party events hosted at Staples Center was approximately 10,440 attendees per event, as reported to the trade publication Pollstar. The rate at which Staples Center hosts third-party events on available event days that occur on Monday-Thursday averaged 16.3 percent over the last three years, ranging from a low of 13.3 percent to a high of 20.0 percent. Over the same time period, Staples Center hosted a third-party event on an average of 16 days of the total 41 available Friday, Saturday, and Sunday dates. On average, Staples Center booked 39.5 percent of available Friday, Saturday, and Sunday event days with third-party event activity, ranging from a low of 29.3 percent to a high of 50.0 percent.

An evaluation of historical booking rates at Staples Center provides a baseline to estimate the number of third-party events that could reasonably occupy the available dates at Staples Center vacated by the Clippers.

**STAPLES CENTER EVENT ANALYSIS**

The following table shows the rate at which Staples Center could expect to newly occupy available event days after the Clippers relocate to IBEC that occur on Monday-Thursday and on Friday, Saturday, and Sunday based on past trends.

Staples Center Third-Party Event Analysis			
	Clippers Double-Booked with NBA or NHL	Clippers-Only Monday-Thursday	Clippers-Only Friday, Saturday, Sunday
Estimated Booking Rate	0.0%	16.3%	39.5%
Average Number of Occurrences*	12	27	8
<b>Occupied Event Assumption</b>	<b>0</b>	<b>4</b>	<b>3</b>

\* Available event days after Clippers relocation.

May 14, 2019

Page | 5

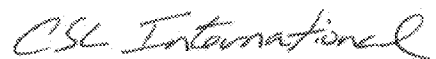
As shown, it is assumed that the 12 double-booked event days during which the Clippers played on the same day as another tenant would not be occupied by any other use. Of the approximately 27 Monday-Thursday events days that would become available at Staples Center, approximately 16.3 percent, or four, could be reasonably anticipated to be replaced with a third-party event hosted at Staples Center. Of the approximately eight Friday, Saturday, and Sunday events days that would be vacated by the Clippers, approximately 39.5 percent, or three, could be occupied with a third-party event hosted at Staples Center. Based on the information and analyses above, it is reasonably estimated that the maximum potential use of vacated Clippers event days at Staples Center could total seven event days.

\* \* \* \* \*

The information contained in this report is based on estimates, assumptions and other information developed from secondary market research, knowledge of the sports and entertainment industry, and other factors, including certain information provided by Wilson Meany and others. All information provided to us was not audited or verified and was assumed to be correct. Because procedures were limited, we express no opinion or assurances of any kind on the achievability of any projected information contained herein and this report should not be relied upon for that purpose. Furthermore, there will be differences between projected and actual results. This is because events and circumstances frequently do not occur as expected, and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report.

We sincerely appreciate the opportunity to assist you with this project and would be pleased to be of further assistance in the interpretation and application of the study's findings.

Very truly yours,



CSL International

**Attachment 3, Exhibit 2**  
**Los Angeles Incremental Event Analysis**



May 16, 2019

Mr. Chris Holmquist Project  
Manager  
Wilson Meany  
6701 Center Drive, Suite  
950 Los Angeles, CA 90045

**SUBJECT: LOS ANGELES INCREMENTAL EVENT ANALYSIS**

Dear Mr. Holmquist:

Conventions, Sports & Leisure International ("CSL") has prepared an analysis related to potential incremental third-party event activity in the Los Angeles marketplace due to the development of a new arena in Inglewood (the Inglewood Basketball and Entertainment Center or "IBEC") for the LA Clippers ("Clippers"). Specifically, Wilson Meany has asked CSL to quantify the number of third-party events anticipated to be hosted by IBEC that could be considered "net new" to the Los Angeles marketplace.

CSL reviewed historical and existing event activity at Staples Center, Honda Center, and The Forum to understand third-party event activity each calendar year. Based on an analysis of event data from the 2014 to 2018 calendar years, CSL calculated a compound annual growth rate ("CAGR") to estimate overall entertainment industry growth up to the anticipated opening year of IBEC. In addition, CSL examined the overall impact of The Forum reopening in 2014 on total third-party event activity in the marketplace.

CSL has prepared an analysis that incorporates IBEC utilization projections, an overview of existing event activity in Los Angeles, an evaluation of the impact of the renovation of The Forum on event activity in the marketplace, and feedback from event promoters in the local and regional area.

The analysis presented in this letter supports the following conclusions regarding third-party events at IBEC:

- The market for live entertainment events in North America generally, and in the Los Angeles area specifically, has experienced significant growth in the recent past, and additional growth in the annual number of live entertainment events can reasonably be expected to continue in the future regardless of the development of IBEC.

May 16, 2019

Page | 2

- It is reasonable to assume that the construction of IBEC can be expected to contribute to both growth and competition in the market, bringing in new, additional events as well as hosting events that might otherwise occur at existing venues.
- Based on IBEC utilization projections, an analysis of historical data, and feedback from event promoters, it is reasonably estimated that the portion of third-party events anticipated to be hosted by IBEC that could be considered net new to the market could total 41 percent (32 of 78 events).

This letter outlines the key findings related to an analysis of potential incremental third-party event activity due to the construction of IBEC. It should be read in its entirety to obtain the background, methods, and assumptions underlying the findings.

**OVERVIEW OF PROJECTED ARENA UTILIZATION**

CSL developed event and attendance projections for IBEC. The table below presents a summary of estimated events and turnstile attendance (actual attendance) activity that is anticipated to be hosted at the new facility.

<b>Overview of Projected IBEC Utilization</b>					
<b>Event Type</b>	<b># Events</b>	<b>Average Attendance</b>		<b>Total Attendance</b>	
		<b>Turnstile Attendance</b>	<b>Maximum Attendance</b>	<b>Turnstile Attendance</b>	<b>Maximum Attendance</b>
<b><i>LA Clippers Games:</i></b>					
Exhibition	3	12,000	18,000	36,000	54,000
Regular Season	41	16,000	18,000	656,000	738,000
<b>Total</b>	<b>44</b>	<b>15,727</b>	<b>18,000</b>	<b>692,000</b>	<b>792,000</b>
<b><i>Third-Party Events:</i></b>					
Concerts - Tier 1	5	15,000	18,500	75,000	92,500
Concerts - Tier 2	8	12,000	14,500	96,000	116,000
Concerts - Tier 3	10	7,000	9,500	70,000	95,000
Family Shows	20	6,000	8,500	120,000	170,000
Other Events	35	5,000	7,500	175,000	262,500
<b>Total</b>	<b>78</b>	<b>6,872</b>	<b>9,436</b>	<b>536,000</b>	<b>736,000</b>
<b>Total</b>	<b>122</b>	<b>10,066</b>	<b>12,525</b>	<b>1,228,000</b>	<b>1,528,000</b>

Note: The analysis assumes three Clippers exhibition games annually, with a potential maximum of five per season.

Note: The analysis does not include Clippers playoff games.

Market demand, including estimated event activity and turnstile attendance, is projected through analyzing current event and attendance figures among modern NBA arenas in comparable markets and projecting potential event and attendance numbers using industry trends, historical data, and other factors. As shown, it is estimated that the Clippers will host a total of 44 home games that are expected to draw an average turnstile attendance of 15,727 per game. Turnstile attendance for Clippers home games is expected to total 692,000 per year and could potentially rise to a total of 792,000 attendees at full capacity over its 44-game home schedule.

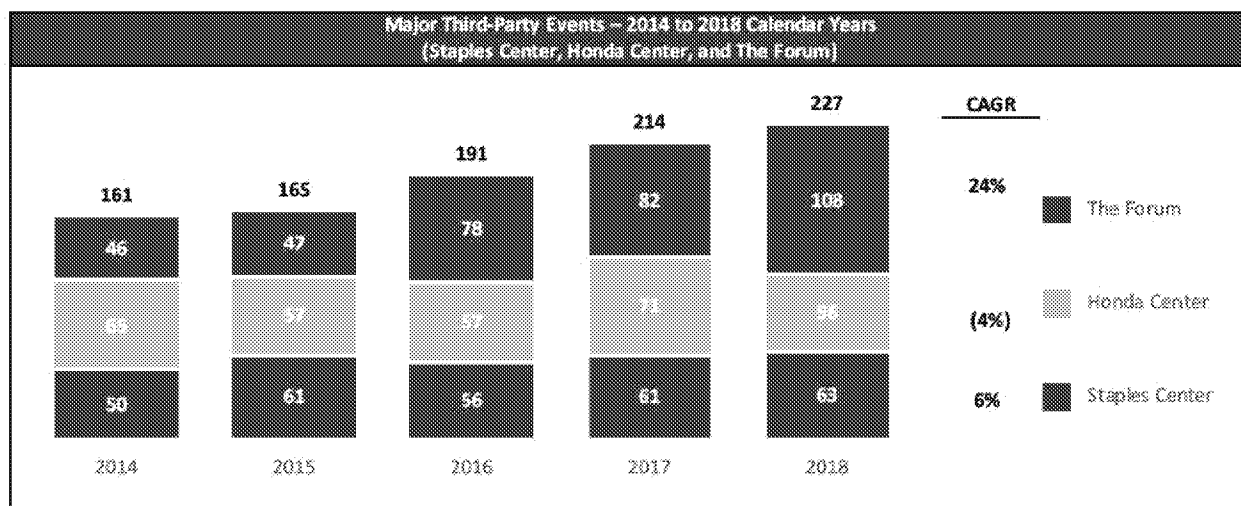
In addition to Clippers home games, it is estimated that IBEC will host a total of 78 major third-party events, consisting of 23 concerts, 20 family shows, and 35 other events (collectively, "Major Third-Party Events"). It should be noted that the other events category could include, but is not limited to, comedy and other entertainment/performance shows, sporting events (i.e. basketball, hockey, etc.), motorsports, rodeo, political/religious gatherings, and other such events. Average turnstile attendance at Major Third-Party Events is estimated to range from a low of 5,000 at other events to a high of 15,000 at Tier 1 concerts, based on observation and knowledge of typical event characteristics. Major Third-Party Event turnstile attendance is estimated to total approximately 1.2 million but could be as high as approximately 1.5 million under a maximum attendee scenario.

It is also projected that IBEC will host up to 100 corporate or community events, with a projected 200 to 1,000 attendees per event. Examples of these corporate or community events include small conventions or conferences, cultural events, and civic private events such as fundraisers, award ceremonies, or other gatherings that could be hosted on the arena floor or in club, locker room, and concourse spaces throughout the arena. These events are expected to generate a total of 30,000 to 200,000 attendees per year.

### OVERVIEW OF LOS ANGELES AREA THIRD-PARTY EVENT ACTIVITY

In order to estimate the portion of the anticipated event activity at IBEC that would represent new Major Third-Party Events in the Los Angeles market, it is important to understand existing utilization levels at arenas located throughout the Los Angeles area that host similar events. For purposes of this analysis, arenas in the Los Angeles market subject to further comparative analysis include Staples Center, The Forum, and Honda Center.

The chart below summarizes Major Third-Party Event activity that occurred in Los Angeles between the 2014 to 2018 calendar years.



Source: Pollstar; Arena websites.

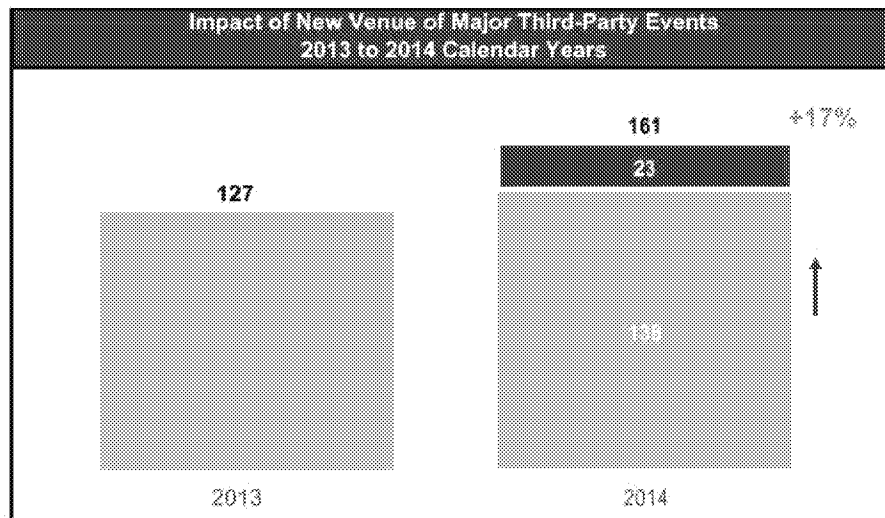


As shown, from 2014 to 2018, Major Third-Party Event activity in Los Angeles has ranged from a low of 161 in 2014 to a high of 227 during the most recent calendar year, with the number of events steadily increasing over the past five years. A majority of the growth has occurred at The Forum which has gone from hosting 46 events in 2014 to 108 events in 2018, achieving a CAGR of 24 percent. It is reasonable to assume that this rapid growth will stabilize over time as The Forum reaches mature operations. Over the same period of time, the combined event activity at Staples Center and Honda Center has remained relatively stable, growing at a combined CAGR of one percent from 2014 to 2018. It should be noted that Ringling Bros. and Barnum & Bailey Circus has been excluded from this analysis due to being discontinued following 2016 and the desire to analyze only event activity that could occur in the future.

An evaluation of historical event growth at Los Angeles area arenas provides a baseline to estimate overall entertainment industry growth up to the anticipated opening year of IBEC.

### IMPACT OF NEW VENUE ON MAJOR THIRD-PARTY EVENT ACTIVITY

The impact of The Forum reopening after its renovation in 2014 can serve as a practical benchmark to estimate the effect of IBEC on Major Third-Party Event activity in the Los Angeles Market. The chart below shows the rate at which third-party event activity grew in Los Angeles following the reintroduction of The Forum.



Source: Pollstar Arena websites

As shown, the number of events increased from 127 in Los Angeles in 2013 to 161 events in 2014. Specifically, the number of Major Third-Party Events at Staples Center decreased by 21, while the number of events at Honda Center increased by nine.

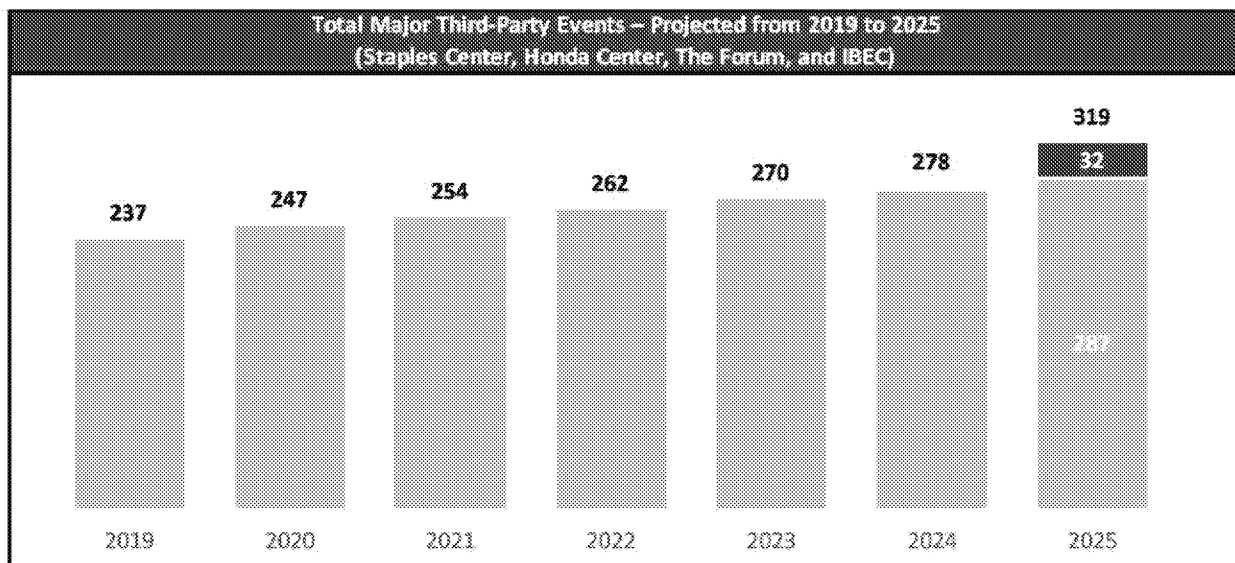
In its first year of operations, The Forum hosted 46 Major-Third Party Events. Based on industry trends, the overall growth in the entertainment industry, and historical event activity, it is reasonable to assume that

absent the redevelopment of The Forum, Staples Center and Honda Center could have grown third-party event activity in Los Angeles to 138 events (based on a CAGR of approximately eight percent from 2010 to 2013). The 17 percent incremental growth in the marketplace resulting in 23 additional events in 2014 could be considered attributable to The Forum and new to Los Angeles.

It is reasonable to assume that the construction of IBEC can be expected to contribute to both growth and competition in the market for Major Third-Party Events. The Los Angeles marketplace hosts a robust level of event activity with three major arenas. While Staples Center, Honda Center, and The Forum are among the top performing arenas in the nation, all three venues have dates available for Major Third-Party Events today. It is reasonable to assume that the Staples Center, Honda Center, and The Forum could accommodate additional event demand without the introduction of a new facility. The addition of IBEC would further segment the marketplace. In addition, The Forum is a dedicated third-party event venue with no tenant demands on dates at the venue. It is reasonable to assume that IBEC would not impact the marketplace at the same level as The Forum as it is the home of the Clippers first and would be the fourth venue in a saturated marketplace.

**IBEC INCREMENTAL EVENT ANALYSIS**

Based on historical event growth in the Los Angeles market over the past five years and conversations with arena management in major markets, the following chart shows estimated event growth over the next six years prior to the anticipated first full year of operations at IBEC based on a CAGR of approximately three percent. As shown previously, Major Third-Party Event activity increased by 17 percent after the reopening of The Forum in Los Angeles. Due to the Clippers demand on available dates at IBEC (44 of 365 events days or 12 percent of available dates) and the more competitive landscape of adding a fourth venue to a saturated marketplace, it is estimated that IBEC would impact the Los Angeles marketplace at two-thirds the rate of The Forum (11 percent), adding an incremental 32 new events to the marketplace.



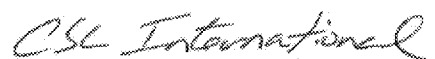
Overall, it is reasonably estimated that the portion of Major Third-Party Events anticipated to be hosted by IBEC that could be considered new to the market could total 41 percent (32 of 78 events). Based on a review of event characteristics, CSL anticipates that the event category to be the most likely new to the market as a result of IBEC would be "other" events including sporting events, comedy, other entertainment/performance shows, motorsports, rodeo, and political/religious gatherings. The category next most likely to be new is concerts. Family shows which has a relatively stable level of content year-over-year is the least likely category to be new to the Los Angeles market. IBEC is not anticipated to significantly contribute to growth in the number of corporate or community events, rather, it is expected that IBEC will host events that would otherwise occur at other locations in the Los Angeles area such as hotel banquet rooms, auditoriums or theaters, or other similar venues.

\* \* \* \* \*

The information contained in this report is based on estimates, assumptions and other information developed from secondary market research, knowledge of the sports and entertainment industry, and other factors, including certain information provided by Wilson Meany and others. All information provided to us was not audited or verified and was assumed to be correct. Because procedures were limited, we express no opinion or assurances of any kind on the achievability of any projected information contained herein and this report should not be relied upon for that purpose. Furthermore, there will be differences between projected and actual results. This is because events and circumstances frequently do not occur as expected, and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report.

We sincerely appreciate the opportunity to assist you with this project and would be pleased to be of further assistance in the interpretation and application of the study's findings.

Very truly yours,



CSL International

**Attachment 3, Exhibit 3**  
**IBEC Project Review of Water Demands**



## MEMORANDUM

**TO:** Mr. Chris Holmquist, Wilson Meany

**FROM:** Stetson Engineers Inc.

**SUBJECT:** Inglewood Basketball and Entertainment Center (IBEC) Project  
Review of Water Demands

**DATE:** June 3, 2019

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### **I. Introduction**

The proposed Inglewood Basketball and Entertainment Center project (IBEC Project or Project) includes the purchase of land and the development of a sporting arena and entertainment center in the City of Inglewood. As part of the Environmental Impact Report (EIR) process for the proposed Project, Wilson Meany, as project manager for proponent of the proposed Project Murphy's Bowl, LLC (Murphy's Bowl) has requested Stetson Engineer's (Stetson) prepare a water demand study.

The water demand study presented below provides an estimate of the water demands for the proposed IBEC Project, including separate water demand estimates for: (1) existing uses at the Project site and (2) the proposed Project facilities. In addition, this water demand study reviewed the potential impacts to water use (i.e. reduction) necessary for the Project to achieve Leadership in Energy and Environmental Design (LEED) "Gold Certification". Where noted below, this study is based on Project-specific information provided by Murphy's Bowl.



## II. Existing Water Demands (Project Site)

This water demand study includes an estimate of the existing water demands from developed properties which would be purchased as part of the IBEC Project. Pursuant to documentation provided by Murphy's Bowl<sup>1</sup>, parcels are to be purchased for the Project under a "Proposed IBEC Project" scenario or a "Alternate Prairie Access Project Variant" scenario. Under the "Proposed IBEC Project" scenario, the following non-residential properties (parcels) would be purchased:

1. Assessor Parcel Number: 4032-001-039
2. Assessor Parcel Number: 4032-001-049
3. Assessor Parcel Number: 4032-001-048
4. Assessor Parcel Number: 4032-007-035
5. Assessor Parcel Number: 4032-008-035
6. Assessor Parcel Number: 4032-001-902

The existing uses on these "Proposed IBEC Project" parcels include a fast food restaurant, a motel, a light manufacturing/warehouse facility, a commercial catering business, and a City water well.

Under a separate "Alternate Prairie Access Variant" scenario for the proposed Project, the following residential parcels would also be purchased:

7. Assessor Parcel Number: 4032-008-002
8. Assessor Parcel Number: 4032-008-006

A summary description of the eight parcels is provided in Table 1. It is Stetson's understanding the proposed Project (including the eight identified parcels) is located within the northern part of Golden State Water Company's (GSWC) Southwest service

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<sup>1</sup> IBEC documentation dated November 14, 2018



area. As indicated in communications with Murphy's Bowl, the water meter records for these eight parcels were previously requested from GSWC, however, records were not provided.

The existing annual water demands for the eight parcels were estimated by Stetson using representative water demands and water demand factors from similar commercial, industrial, and residential water uses (described in Table 1). Based on these water demand factors, as well as parcel information provided by Murphy's Bowl (i.e. existing uses, building sizes, number of units), the following estimated water demands were determined:

- The total water demand for the "Proposed IBEC Project" parcels is estimated at approximately 6.6 acre-feet per year (AFY).
- The total water demand for the "Alternate Prairie Access Variant" parcels is estimated at approximately 1.0 AFY.
- The total water demand for both the "Proposed IBEC Project" parcels and the "Alternate Prairie Access Variant" parcels is estimated at approximately 7.6 AFY.

A summary of these water demand estimates for the existing uses is provided in Table 1.



**Table 1 Existing Water Demands (IBEC Project Parcels)**

Assessors Parcel Number	Description [1]	Building Size (sf) [1]	Estimated Water Demand (AFY)	Notes / Sources
<b>Proposed IBEC Project</b>				
1) 4032-001-039	Church's Chicken	1,118	0.6	Based on water use records from City of Lakewood for Church's Chicken (FY 2015-16)
2) 4032-001-049	36 Room Exterior Corridor Economy Motel	16,806	5.0	Based on a rate of 125 gpd per room from City of Inglewood's 2010 Urban Water Management Plan
3) 4032-001-048	Single-Tenant Manufacturing / Warehouse Building	32,631	0.9	Based on a rate of 25 gpd per 1,000 sf (LACSD May 18, 2011 Ordinance for District No. 5)
4) 4032-007-035	Single-Tenant Warehouse Building (Vacant)	10,000	0.0	Estimated at zero because the building was unoccupied at the time the Notice of Preparation for the EIR was issued (e.g., time of study)
5) 4032-008-035	Let's Have a Cart Party Store	11,134	0.04	Based on water use records from City of Lakewood for similar commercial retail stores (FY 2015-16)
6) 4032-001-902	City Water Well	NA	0.0	Existing water demands are assumed negligible
<b>Subtotal (Base Case EIR)</b>			<b>6.6</b>	
<b>Alternate Prairie Access Variant</b>				
7) 4032-008-002	Single Story 3-Unit Residential	1,629	0.6	Based on an existing multi-family use rate of 0.2 AFY per unit ("Alexan Long Beach Water Supply Assessment", November 29, 2018)
8) 4032-008-006	Single Story Single Family Detached Residential Unit	795	0.4	Based on an average residential use rate of 0.4 AFY per unit from City of Inglewood's 2015 Urban Water Management Plan (Tables 4-1A and 4-1B)
<b>Subtotal (Project Variant)</b>			<b>1.0</b>	
<b>Total</b>			<b>7.6</b>	

**Notes:**

AFY = acre feet per year

FY = fiscal year

gpd = gallons per day

LACSD = Los Angeles County Sanitation District

NA = not applicable

sf = square feet

[1] Parcel descriptions and building sizes provided by Murphy's Bowl





### III. “Baseline” IBEC Project Water Demands

This water demand study also includes an assessment of the estimated water demands for the proposed IBEC Project facilities. Based on information provided by Murphy's Bowl<sup>2</sup>, the proposed Project facilities include the following:

- Sports arena: 915,000 square feet (sf)
- Office space: 71,000 sf
- Practice/training: 85,000 sf
- Medical clinic: 25,000 sf
- Community space: 15,000 sf
- Dining and retail: 48,000 sf
- Hotel 150 rooms

The proposed IBEC Project would include approximately 139,112 sf (or about 3.2 acres) of landscaping. In addition, the Project site would include approximately 437,379 (or about 10 acres) of impervious hardscape surfaces.

The estimated “Baseline” water demands for each facility type listed above are discussed in the following subsections. These Baseline water demands estimates are based on a water use scenario where standard levels of water conservation typical in newer construction projects are incorporated. The Baseline scenario incorporates “baseline” water use factors provided in Leadership in Energy and Environmental Design (LEED) documentation<sup>3</sup>. The LEED baseline water use factors incorporate United States Environmental Protection Agency (EPA) WaterSense labeled products which conserve water. Additional levels of water conservation, however, may be required in order for the proposed Project to achieve LEED Gold Certification (see Section IV).

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<sup>2</sup>“Project Condor, Buildings That Are Proposed to be Demolished”, dated November 14, 2018

<sup>3</sup>Design and Construction”, July 2, 2018, Water Efficiency



**a. Sports Arena**

Based on information provided by Murphy's Bowl<sup>4</sup>, the sports arena will hold various events throughout the year, including basketball games, concerts, family shows, corporate / community events, plaza events, practice events, and other events. The water demands for these events were determined based on the estimated number of employees and visitors per event. In addition, various water uses were considered for each event, including toilet, urinal, restroom faucet, kitchen sink, laundry, and shower uses. The water demand for a single employee was estimated at approximately 13.7 gallons per event. The water demand for a single attendee was estimated at approximately 2.7 gallons per event. Appendix A provides additional information regarding the Baseline water demands per event.

The water demands for the sports arena also include water used for cooling tower purposes. Based on information provided by Murphy's Bowl<sup>5</sup>, the Baseline cooling tower water demands are approximately 6.0 million gallons per year, or approximately 18.4 AFY. The total Baseline water demand for the sports arena was estimated at approximately 42.1 AFY and is summarized in Table 2.

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<sup>4</sup> "Inglewood Basketball & Entertainment Center, Anticipated Annual Events Characteristics" provided by Murphy's Bowl.

<sup>5</sup> Pursuant to communications with Murphy's Bowl, Baseline cooling tower water demand would be approximately 6 million gallons per year and a proposed cooling tower system with a reduced water demand of approximately 4.8 million gallons per year for the IBEC Project



**Table 2 Baseline IBEC Water Demands (Arena and Plaza Events)**

Event Type	Number of Employees per Event [1]	Maximum Attendance per Event [1]	Baseline Water Use (gpcd)		Events per Year [1]	Estimated Baseline Water Demand	
			Per Employee [2]	Per Visitor [2]		Gallons per Year	AFY
<b>LA Clippers Home Games</b>							
Pre-Season Games	1,320	18,000	13.7	2.7	5	335,500	1.0
Regular Season Games	1,320	18,000	13.7	2.7	41	2,751,100	8.4
Postseason Games	1,320	18,000	13.7	2.7	3	201,300	0.6
<b>Concerts</b>							
5 per year (large)	1,120	18,500	13.7	2.7	5	328,600	1.0
8 per year (medium)	795	14,500	13.7	2.7	8	403,100	1.2
10 per year (small)	530	9,500	13.7	2.7	10	331,400	1.0
<b>Family Shows</b>							
20 per year	530	8,500	13.7	2.7	20	608,200	1.9
<b>Other Events</b>							
35 per year	480	7,500	13.7	2.7	35	945,100	2.9
<b>Corporate/Community Events</b>							
100 per year	25	2,000	13.7	2.7	100	579,200	1.8
<b>Plaza Events</b>							
16 per year	25	4,000	13.7	2.7	16	179,900	0.6
<b>Practice Events</b>							
260 per year [3]	54	0	13.7	2.7	260	192,000	0.6
<b>Cooling Towers</b>							
Cooling Towers [4]						6,000,000	18.4
<b>Total</b>						<b>12,855,400</b>	<b>39.5</b>

**Notes:**

AFY = acre feet per year

gpcd = gallons per day per capita

**Source:**

[1] "IBEC Anticipated Annual Events Characteristics", provided by Murphy's Bowl, 2019

[2] See Appendix A

[3] Pursuant to communications with Murphy's Bowl, 2019

[4] Proposed cooling tower water demand estimate based on information provided by Murphy's Bowl



### **b. Office Space**

The water uses for office space considered in this study include toilet, urinal, restroom faucet, kitchen sink, shower, dishwasher, HVAC/cooling, indoor cleaning, and miscellaneous uses. It is estimated the water use rate for office space is approximately 99 gallons per day per 1,000 sf. The total area of office space in the proposed Project is approximately 111,000 sf and includes offices (71,000 sf), the medical clinic (25,000 sf), and the community space (15,000 sf). The total Baseline water demand for office space was estimated at approximately 8.8 AFY and is summarized in Table 3.

### **c. Retail Space**

The water uses for retail space considered in this study include toilet, urinal, and restroom faucet uses. It is estimated the water use rate for retail space is approximately 302 gallons per day per 1,000 sf. The total area of retail space in the proposed Project is approximately 24,000 sf and includes a team store and other general retail and services. The total Baseline water demand for retail space was estimated at approximately 8.1 AFY and is summarized in Table 3.

### **d. Restaurant Space**

The estimated water use rate for restaurant space is approximately 300 gallons per day per 1,000 sf. The total area of restaurant space in the proposed Project is approximately 24,000 sf and includes restaurants, bars, lounges, and a coffee shop. The total Baseline water demand for restaurant space was estimated at approximately 8.1 AFY and is summarized in Table 3.



**Table 3 Baseline IBEC Water Demands (Office, Retail, Restaurant, Cleaning, and Hotel)**

Other Components	Area (sf) [1]	Unit Rate	Days per Year	Annual Water Use (gal)	AFY
Office Space	111,000	99 gpd per 1,000 sf [2]	260	2,857,100	8.8
Retail Space	24,000	302 gpd per 1,000 sf [2]	365	2,645,500	8.1
Restaurant Space	24,000	300 gpd per 1,000 sf [2]	365	2,628,000	8.1
Landscape	139,112	See Appendix A		4,662,800	14.3
Washdown and Facility Cleaning					
Outdoor (Hardscape and Parking Areas)	577,669	See Appendix A		225,665	0.7
Indoor (Arena and Practice Facilities)	1,000,000	See Appendix A		768,000	2.4
Hotel (150 rooms)		See Appendix A		6,843,800	21.0
<b>Total</b>				<b>20,630,865</b>	<b>63.3</b>

**Notes:**

AFY = acre feet per year

gpd = gallons per day

sf = square feet

**Source:**

[1] "IBEC Project Program", provided by Murphy's Bowl, 2019

[2] See Appendix A

**e. Hotel**

The estimated water use rate for a hotel is approximately 125 gallons per day per unit. This water use rate was based on the City of Inglewood's 2010 and 2015 Urban Water Management Plans. The proposed Project includes a 150-unit hotel. The total Baseline water demand for restaurant space was estimated at approximately 21 AFY and is summarized in Table 3.

**f. Landscaping**

Landscape irrigation demands can be estimated using a water budget calculator provided by the California Department of Water Resources (DWR). The water budget calculator



estimates the water use of a landscaped area based on the various components including the reference evapotranspiration, plant factors, irrigated area, and an irrigation efficiency factor. Pursuant to the “Landscape Narrative” for the proposed Project provided by Murphy’s Bowl, the proposed Project currently includes approximately 139,112 sf (or about 3.2 acres) of landscaping (i.e. trees and understory planting). The Baseline water demands for the proposed Project would include medium water use turfgrass (plant factor of 0.7) incorporating fixed spray irrigation (irrigation efficiency of 0.65). The total Baseline water demand for landscaping was estimated at approximately 14.3 AFY and is summarized in Table 3.

It is anticipated a majority of the landscape irrigation water demands for the proposed Project will be served through use of recycled water. It is Stetson’s understanding West Basin Municipal Water District (WBMWD) owns a recycled water pipeline along Prairie Avenue<sup>6</sup> through the Project location. Pursuant to communications with Murphy’s Bowl, the landscape irrigation water demands for the hotel and the eastern parking garage areas will not be served by recycled water. The Baseline landscape water demands for these two areas (hotel and the eastern parking garage areas) is approximately 3.5 AFY. As a result, the total Baseline recycled water demand for the proposed Project is approximately 10.8 AFY (or 14.3 AFY – 3.5 AFY), or approximately 76 percent of the total Baseline landscape water demands.

#### **g. Washdown and Facility Cleaning**

The proposed Project will require water to wash down outdoor hardscape areas and parking areas. Pursuant to the “Landscape Narrative” for the proposed Project provided by Murphy’s Bowl, the total hardscape square footage of impervious surfaces, including the parking areas, is approximately 437,379 sf (or about 10 acres). These areas require water for periodic washdown/cleaning. In addition, water is required to washdown indoor facilities including the arena and the practice facilities. Pursuant to the “IBEC Project Program” provided by Murphy’s Bowl, the total indoor washdown area is approximately

<sup>6</sup>[http://www.westbasin.org/sites/default/files/WB\\_RecycledWaterSystem\\_2017.pdf](http://www.westbasin.org/sites/default/files/WB_RecycledWaterSystem_2017.pdf)



1,000,000 sf and consists of the arena (915,000 sf) and the practice facility (85,000 sf). The total Baseline water demand for washdown and facility cleaning was estimated at approximately 2.4 AFY and is summarized in Table 3.

**h. Total Baseline IBEC Water Demands**

The total Baseline water demands for the proposed IBEC Project is approximately 102.8 AFY and are summarized in Table 4.

**Table 4 IBEC Project Water Demands ("Baseline" Scenario)**

Water Use Type	"Baseline" Water Demand (AFY)	Source
Arena and Plaza Events	21.0	Table 2; Appendix A
Arena and Plaza Events (Other) [1]	18.4	Table 2; Appendix A
Office Space	8.8	Table 3; Appendix A
Retail Space	8.1	Table 3; Appendix A
Restaurant Space	8.1	Table 3; Appendix A
Landscape	14.3	Table 3; Appendix A
Outdoor Washdown	0.7	Table 3; Appendix A
Indoor Washdown	2.4	Table 3; Appendix A
Hotel (150 rooms)	21.0	Table 3; Appendix A
Subtotal - Indoor	69.3	
Subtotal - Outdoor	15.0	(Landscape + Outdoor Washdown)
Subtotal - Other	18.4	(Event Center Cooling Towers)
<b>Total</b>	<b>102.8</b>	

**Notes:**

[1] Includes arena structure cooling tower water demands



#### **IV. Proposed IBEC Project Water Demands (With “LEED Gold Certification”)**

It is anticipated the proposed IBEC Project will include project design features which will reduce overall water demands. These features include the installation of energy and resource-efficient facilities necessary for LEED Gold Certification. As part of obtaining LEED Gold Certification, the proposed Project can implement certain water efficiency actions. These actions, which are discussed below, will reduce the Project’s total water demands (compared to the “Baseline” scenario).

Pursuant to the U.S. Green Building Council<sup>7</sup>, different levels of LEED certification can be achieved based on the total points earned from various categories (including a “Water Efficiency” category) covered in the LEED rating system. Based on the total number of points a project earns, the four levels of LEED certification include the following:

- Certified (40 to 49 points)
- Silver (50 to 59 points)
- Gold (60 to 79 points)
- Platinum (80+ points)

##### **a. LEED Certification Prerequisites**

For the purposes of this water demand study, only the potential Project water demand reductions associated with the LEED “Water Efficiency” credit category were reviewed. According to LEED documentation<sup>8</sup>, the proposed Project will need to fulfil three (3) prerequisites in order to receive points under the Water Efficiency” credit category. The following is a summary of the LEED certification prerequisites for new building construction:

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<sup>7</sup> <https://www.usgbc.org/articles/whats-difference-between-lead-credit-lead-prerequisite-and-lead-point>

<sup>8</sup> “LEED v4 for Building Design and Construction”, July 2, 2018, Water Efficiency (pages 50 to 54)





**1. Outdoor Water Use Reduction**

Outdoor landscaping must be designed to reduce (by at least 30% from a calculated baseline) or eliminate the need for water usage.

**2. Indoor Water Use Reduction**

The project building must reduce aggregate water use 20% from the baseline and all newly installed toilets, urinals, private lavatory faucets and showerheads that are eligible for labeling must be WaterSense labeled.

**3. Building-Level Water Metering**

The project building will be required to

- Install permanent meters capable of measuring total potable water use for the building and associated grounds,
- Document that data on a monthly basis, and
- Agree to share the data with the U.S. Green Building Council (USGBC) for five years following project certification or building occupancy, whichever comes first.

Pursuant to AECOM's "Sustainability / LEED Checklist" (provided by Murphy's Bowl), dated August 29, 2018, the proposed IBEC Project will meet the LEED certification prerequisites through the following actions:

- 1) The Project will use recycled water to service water conscious landscape design. (As discussed in Section IV(b) below, the Project will reduce outdoor water use by at least 50 percent.)
- 2) The Project will incorporate water efficient fixtures to achieve approximately 40 percent reduction in indoor water use
- 3) The Project will incorporate smart-meters



## b. LEED Gold Certification Points

After meeting the prerequisites discussed in the Section above, LEED certification points can be earned from the following four (4) Water Efficiency credit categories (for new construction buildings)<sup>9</sup>:

### 1. Outdoor Water Use Reduction

Eliminating the need for outdoor irrigation entirely or reducing the landscape watering requirement by at least 50% can earn up to **two (2) points** for the project building.

### 2. Indoor Water Use Reduction

Reducing indoor water use beyond the 20% prerequisite can earn new construction buildings up to **six (6) points**, including the following:

- 25% Reduction = 1 point
- 30% Reduction = 2 point
- 35% Reduction = 3 point
- 40% Reduction = 4 point
- 45% Reduction = 5 point
- 50% Reduction = 6 point

### 3. Cooling Tower Water Use

This is designed to encourage buildings to conserve water used for cooling tower makeup while effectively controlling microbes, corrosion and scale in the condenser water system. This credit can earn up to **two (2) points**.

### 4. Additional Water Metering

Installation of permanent water meters for two or more of the following water subsystems,

- Irrigation,
- Indoor plumbing fixtures and fittings,
- Domestic hot water,
- Boilers,
- Reclaimed water, and
- Other process water.

Projects that sub-meter at least two water end uses are awarded **one (1) point**.

The proposed IBEC Project can obtain LEED certification points through the following actions:

- 1) The IBEC Project will obtain at least 1 point under the "Outdoor Water Use Reduction" category by incorporating landscaping which results in a 50 percent

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<sup>9</sup> "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency (pages 55 to 62)



reduction in outdoor water use compared to baseline (i.e. turf) irrigation during the peak watering month. Pursuant to LEED documentation<sup>10</sup>, the calculation to determine if the Project's proposed landscaping meets the minimum 50 percent reduction requirement is based on using the EPA's WaterSense Water Budget Tool<sup>11</sup>. Stetson incorporated the IBEC Project landscape information from Section III(f), as well as climate data recommended by the EPA<sup>12</sup>, into the Water Budget Tool. The results of the Water Budget Tool indicate the proposed landscaping for the IBEC Project will result in a 50 percent reduction in outdoor landscape compared to baseline irrigation requirements during the peak water month (i.e. July). Based on the Water Budget Tool results, the IBEC Project will obtain 1 point under the "Outdoor Water Use Reduction" category. The results of the Water Budget Tool for the IBEC Project are provided in Appendix B.

It should be noted a maximum of 2 points can be obtained under the "Outdoor Water Use Reduction" category by incorporating landscaping which results in a 100 percent reduction in outdoor water (compared to baseline irrigation during the peak watering month). As noted above, the IBEC Project will obtain at least 1 point through a 50 percent reduction. Pursuant to the LEED documentation, additional outdoor water use reductions beyond 30 percent can be achieved by incorporating "alternative water sources" (e.g. recycled water). As discussed in Section III(f), recycled water use is estimated at approximately 76 percent of the total landscaped irrigation demand. Although the use of recycled water is expected to increase the outdoor water use reduction beyond 50 percent, it is not certain if a 100 percent reduction can be achieved because the IBEC Project includes a landscaping component which still requires potable water supplies (remaining 24 percent).

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<sup>10</sup> "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency (page 56)

<sup>11</sup> <https://www.epa.gov/watersense/water-budget-tool>

<sup>12</sup> <https://www.epa.gov/watersense/water-budget-data-finder>



- 2) Pursuant to the “Sustainability / LEED Checklist” provided by Murphy’s Bowl, the Project will obtain 4 points under the “Indoor Water Use Reduction” category by incorporating water efficient fixtures to achieve approximately 40 percent reduction in indoor water use. A further discussion is provided in Section IV(c) below.
  
- 3) Pursuant to the “Sustainability / LEED Checklist” provided by Murphy’s Bowl, the Project will likely obtain 2 points under the “Cooling Tower Water Use” category through installation of a specialized cooling tower system and potential use of 100% recycled water for cooling tower purposes. (It should be noted, based on communications with Murphy’s Bowl, recycled water may not be suitable for cooling tower purposes. The use of recycled water for cooling tower purposes may require additional treatment.)
  
- 4) Pursuant to the “Sustainability / LEED Checklist” provided by Murphy’s Bowl, the Project can potentially obtain 1 point under the “Additional Water Metering” category through the installation of meters for the domestic hot water, boiler make up, and recycled water systems.

**c. Proposed Project Water Demands (With “Gold Certification”)**

As discussed above, the proposed IBEC Project will incorporate various project design features, including implementation of LEED water efficiency actions, which will reduce the Project water demands. The total water demands for the proposed IBEC Project, including water demand reductions, are summarized below.

As discussed in Section III(a) above, Murphy’s Bowl indicated the Baseline cooling tower water demand would be approximately 6 million gallons per year. However, the proposed cooling tower system for the IBEC Project has a reduced water demand of approximately 4.8 million gallons per year.



As discussed in Section IV(b) above, the proposed IBEC Project will incorporate landscaping which results in a 50 percent reduction in outdoor water use compared to baseline (i.e. turf) irrigation during the peak watering month. Pursuant to the “Landscape Narrative” for the proposed Project provided by Murphy’s Bowl, the proposed Project will include low to medium water use plantings (plant factors between 0.2 and 0.5) incorporating drip irrigation (irrigation efficiency of 0.7). The total proposed water demand for landscaping is estimated at approximately 6.6 AFY. Also discussed in Section IV(b), the landscape irrigation water demands for the hotel and the eastern parking garage areas will not be served by recycled water. The proposed landscape water demands for these two areas (hotel and the eastern parking garage areas) is approximately 1.6 AFY. As a result, the total recycled water demand for the proposed Project is approximately 5.0 AFY (or 6.6 AFY – 1.6 AFY), or approximately 76 percent of the total Baseline landscape water demands.

As discussed in Section IV(b) above, the proposed IBEC Project’s total water demands will be reduced under the “Indoor Water Use Reduction” category (compared to the “Baseline” water demands discussed in Section III). As discussed previously, the checklist provided by Murphy’s Bowl anticipates the proposed Project will obtain 4 certification points through installation of water efficient fixtures that will achieve approximately 40 percent reduction in total indoor water use. As shown in Table 4, the total indoor “Baseline” water demand has been estimated at approximately 67.2 AFY<sup>13</sup>. The amount of water reduction necessary for a 40 percent reduction is approximately 26.9 AFY (or 67.2 x 40 percent). By reducing the indoor water use by 40 percent, the total indoor water demand for the proposed Project would be approximately 40.3 AFY (or 67.2 AFY – 26.9 AFY).

For the purposes of this study, the indoor water uses associated with the proposed Project facilities include the following:

- Arena and Plaza water uses (excluding cooling towers)
- Office space water uses
- Retail space water uses
- Restaurant water uses

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<sup>13</sup> Consultants to Murphy’s Bowl indicated the water demands for the Event Center cooling towers are not considered as part of indoor water uses under the “Indoor Water Use Reduction” category



- Hotel water uses
- Arena and practice facility washdowns

Reductions in indoor water use for the proposed Project can be achieved by installing water fixtures which conserve more water compared to the water fixtures presented in the Baseline scenario. Table 5 provides a summary of the water fixtures and water use rates incorporated in the proposed Project (to achieve LEED Gold Certification).

**Table 5 Water Conservation Fixtures (“Baseline” Scenario and Proposed Project)**

Fixture Type	Units	Water Use Rate		Percent Reduction
		“Baseline”	Proposed Project	
Restroom Sink Faucet	gpm	0.5	0.35	30%
Urinals	gpf	1	0.125	88%
Toilets	gpf	1.6	1.1	31%
Showerhead	gpm	2.5	1.5	40%
Kitchen Faucet	gpm	2.2	1.5	32%
Dishwasher	gpc	6	4.8	20%

**Notes**

- gpc - gallons per cycle
- gpf = gallons per flush
- gpm = gallons per minute

Indoor water use reductions based on water fixtures for the proposed Project can be quantified for the Arena and Plaza events, office space, and retail space using similar methodologies described in Section III (and estimated in Appendix C). By installing these water fixtures, the total indoor water use reduction associated with the Arena and Plaza events (9.2 AFY), office space (2.7 AFY), and retail space (4.1 AFY) was estimated at approximately 16 AFY, resulting in an average water reduction of approximately 45 percent for these particular uses. The water demands reductions for the proposed Project are summarized in Table 6.



In order to achieve the identified 40 percent reduction in total indoor water use necessary for LEED Gold Certification, an additional 10.9 AFY (or 26.9 AFY – 16 AFY) of indoor water use will need to be reduced. The remaining indoor water uses for the proposed Project include water uses associated with restaurant space, the hotel, and indoor facility washdowns/cleaning. However, it is not anticipated water uses associated with periodic indoor facility washdowns/cleaning (“Baseline” demand of 2.4 AFY) will be significantly reduced. As a result, additional water demand reductions of at least 10.9 AFY from the restaurant space and the hotel will be required.

Although the estimated water demands for restaurant space (under the Baseline scenario) were not determined based on calculating demands from individual water fixture types, the water demands for restaurant space in general can be reduced if the proposed Project requires the installation of water saving fixtures, including the restroom sink faucets, urinals, toilets, kitchen faucets, and dishwashers identified in Table 5. Based on the combined estimated 45 percent water reduction from Arena and Plaza events, office space, and retail space (discussed above), it is assumed the installation of the water savings fixtures under the proposed Project will reduce water demands associated with restaurant space by approximately 45 percent. Likewise, the water demands for the hotel in general can be reduced if the proposed Project requires the installation of water saving fixtures, including the restroom sink faucets, toilets, and showerheads identified in Table 5. Based on the percentage range of water conservation for these fixtures provided in Table 5 (i.e. 30 to 40 percent), it is assumed the installation of water saving fixtures under the proposed Project will reduce water demands associated with the hotel by approximately 35 percent. As a result, the anticipated water demand reduction for the restaurant space (3.6 AFY) and hotel (7.4 AFY) is approximately 11 AFY. A summary of these reduced restaurant space and hotel water demands is provided in Table 6.



**Table 6 Summary of IBEC Project Water Demands (Baseline and Proposed Project)**

Water Use Type	Estimated Water Demands (AFY)		Indoor Water Demand Reductions [3]	
	"Baseline"	"Proposed Project" (See Appendix C)	(AFY)	Percentage
<b><u>Indoor</u></b>				
Arena and Plaza Events [1]	21.0	10.7	10.3	49%
Office Space	8.8	6.1	2.7	31%
Retail Space	8.1	4.0	4.1	51%
Restaurant Space	8.1	4.4	3.6	45%
Indoor Washdown	2.4	2.4	0.0	0%
Hotel (150 rooms)	21.0	13.7	7.4	35%
<b>Subtotal - Indoor</b>	<b>69.3</b>	<b>41.2</b>	<b>28.1</b>	<b>41%</b>
<b><u>Outdoor</u></b>				
Landscape	14.3	6.6	-	-
Outdoor Washdown	0.7	0.7	-	-
<b>Subtotal - Outdoor</b>	<b>15.0</b>	<b>7.3</b>	<b>-</b>	<b>-</b>
<b><u>Other</u></b>				
Arena and Plaza Events [2]	18.4	14.7	-	-
<b>Subtotal - Other</b>	<b>18.4</b>	<b>14.7</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>102.8</b>	<b>63.3</b>	<b>-</b>	<b>-</b>

**Notes:**

[1] Excludes arena structure cooling tower water demands

[2] Arena structure cooling tower water demands

[3] Pursuant to the LEED's "Indoor Water Use Reduction" category





As summarized in Table 6, the proposed Project will have the following water demands/reductions:

- The total indoor water use for the proposed Project will be reduced by approximately 28.1 AFY (or about 41 percent), compared to the “Baseline” scenario
  
- The total overall water demands for the proposed Project are approximately 63.3 AFY

## APPENDIX A

Appendix A - Baseline Water Demand Use Rate Estimates

Event Center End Uses									
1. Visitors									
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use	
Restroom Sink Faucet	0.5	gal/min	0.25	min	1	0.1	Source [1] Table 1	Source [2] Table 8	
Urinals	1	gal/flush	1	flush	1	1.0	Source [1] Table 1	Source [2] Table 8	
Toilets	1.6	gal/flush	1	flush	1	1.6	Source [1] Table 1	Source [2] Table 8	
<b>Sub-Total</b>						<b>2.7</b>			
2. Full-Time Employees									
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Employee	Source for Rates	Source for No. of Units and Ave. Daily Use	
Showerhead	2.5	gal/min	5	min	0.3	3.8	Source [1] Table 1	Source [2] Table 8	
Restroom Sink Faucet	0.5	gal/min	0.25	min	3	0.4	Source [1] Table 1	Source [2] Table 8	
Urinals	1	gal/flush	1	flush	2	2.0	Source [1] Table 1	Source [2] Table 8	
Toilet	1.6	gal/flush	1	flush	4	6.4	Source [1] Table 1	Source [2] Table 8	
Kitchen Faucet	2.2	gal/min	0.25	min	1	0.6	Source [1] Table 1	Source [2] Table 8	
Laundry	4	gal/pound	0.5	pound	0.3	0.6	Source [2] Table 8	Source [2] Table 8	
<b>Sub-Total</b>						<b>13.7</b>			
Office End Uses									
1. Full-Time Employees									
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use	
Showerhead	2.5	gal/min	5	min	0.3	3.8	Source [1] Table 1	Source [2] Table 8	
Restroom Sink Faucet	0.5	gal/min	0.25	min	3	0.4	Source [1] Table 1	Source [2] Table 8	
Urinals	1	gal/flush	1	flush	2	2	Source [1] Table 1	Source [2] Table 8	
Toilet	1.6	gal/flush	1	flush	4	6.4	Source [1] Table 1	Source [2] Table 8	
Kitchen Faucet	2.2	gal/min	0.25	min	1	0.6	Source [1] Table 1	Source [2] Table 8	
<b>Sub-Total</b>						<b>13.2</b>			
<b>Grosssf/Employee</b>						<b>200</b>	Source [2] Table 8	Source [2] Table 8	
<b>GPD per 1,000 gross sf</b>						<b>66</b>			
2. Dishwasher	6	gal/cycle	1	cycle	1	6	Source [6]	Source [2] Table 8	
3. Cooling Equipment	0.0196	gal/sf	1000	sf	1	20	Source [2] Table 8	Source [2] Table 8	
4. Indoor Floor Cleaning	0.75	gal/min	4	min/1000 sf	0.7	2	Source [2] Table 8	Source [2] Table 8	
5. Misc (assumed 5%)						5	Source [2] Table 8	Source [2] Table 8	
<b>Total GPD per 1,000 gross sf</b>						<b>99</b>			

Retail End Uses								
1. Customer								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.5	gal/min	0.25	min	1	0.125	Source [1] Table 1	Source [2] Table 8
Urinals	1	gal/flush	1	flush	1	1	Source [1] Table 1	Source [2] Table 8
Toilets	1.6	gal/flush	1	flush	1	1.6	Source [1] Table 1	Source [2] Table 8
					Sub-Total	2.725		
					gross sf/customer	10	Source [2] Table 8	
					GPD per 1,000 gross sf	272.5		
2. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.5	gal/min	0.25	min	3	0.375	Source [1] Table 1	Source [2] Table 8
Urinals	1	gal/flush	1	flush	2	2	Source [1] Table 1	Source [2] Table 8
Toilets	1.6	gal/flush	1	flush	4	6.4	Source [1] Table 1	Source [2] Table 8
					Sub-Total	8.775		
					Gross sf/Employee	300	Source [2] Table 8	Source [2] Table 8
					GPD per 1,000 gross sf	29		
						Total GPD per 1,000 gross sf	302	

Restaurant End Uses								
Type	Rate	Unit			Ave. Daily Use	GPD	Source for Rates	
Restaurant	300	gal/day/1,000 sf			1	300	Source [3]	
					Sub-Total	300		
					GPD per 1,000 gross sf	300		
						Total GPD per 1,000 gross sf	300	

Washdown and Facility Cleaning								
Type	Flow Rate	Unit	No. of Units	Unit	Ave Yearly Use	GPY per 1,000 GSF	Source for Rates	Source for No. of Units and Ave. Daily Use
Outdoor Hardscape Washdown (includes two parking areas) Total = 437,379 sf [4]								
South Parking garage = 70,770 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
West Parking garage = 192,063 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
Outdoor Hardscape = 174,546sf	5	gal/min	30	min/1,000 sf	4	600	Source [2] Table 8	Source [2] Table 8
<b>Project Annual Water Use (gal)</b>						<b>183,578</b>		
Eastern Parking Area Outdoor Hardscape Washdown Eastern Parking Garage = 140,290 sf								
	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
<b>Project Annual Water Use (gal)</b>						<b>42,087</b>		
Indoor floor cleaning Total = 915,000 sf of Arena plus 85,000 sf of Practice/Training Facility								
	0.75	gal/min	4	min/1,000 sf	256	768	Source [2] Table 8	Source [2] Table 8
<b>Project Annual Water Use (gal)</b> (using total area of 1,000,000 sf)						<b>768,000</b>		
<b>Total GPY</b>						<b>993,665</b>		

Landscape Area						
Type	ETo	Plant Factor	Irrigated Area	Irrigation Efficiency	Ave Yearly Use GPY	Source
Planting Area Total = 139,112 sf	50.2	0.7	139,112	0.65	4,662,777	Irrigation Demand = (ETo) x (0.62) x ((PF x IA) / IE) Murphy's Bowl (Landscape Narrative)
<b>Total GPY</b>					<b>4,662,777</b>	

\*ETo from International Water Management Institute (<http://wcatlas.iwmi.org/Default.asp>) data for Project area  
Plant factor based on turf irrigation with medium (0.7) water requirements  
Irrigation efficiency (0.65) based on fixed spray irrigation

Hotel					
Type	No. Rooms	Gallons per room per day	No. of Days	Ave Yearly Use GPY	Source
150 Rooms	150	125	365	6,843,750	Source [5] Appendix F
				<b>Total GPY</b>	<b>6,843,750</b>

**Sources:**

[1] "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency

[2] "Mission Bay Blocks 29-32 – Water Demand Memorandum", BKF Engineers, November 2014,

[3] "Convention and Event Center Project - Draft Environmental Impact Report", City of Los Angeles, April 2012, Volume IV.K.1, Utilities - Water (Table IV.K.1-9)

[4] Communications with Murphy's Bowl, 2019

[5] "City of Inglewood's 2010 Urban Water Management Plan", May 2011

[6] <https://www.ahs.com/home-matters/quick-tips/how-much-water-does-a-dishwasher-use/>

**Notes:**

gal/min = gallons per minute

GPD = gallons per day

sf = square feet

## **APPENDIX B**

### WaterSense New Home Specification: Water Budget Tool (V 1.03)

This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.

Your Name:   
Builder Name:   
Lot Number/Street Address:   
City, State, Zip Code:   
Peak Watering Month:   
Obtain from Water Budget Data Finder at <https://www.epa.gov/watersense/water-budget-data-finder>  
Is an irrigation system being installed on this site?



### This worksheet determines the baseline and the landscape water allowance (LWA) for a site based on its peak watering month.

The baseline is the amount of water required by the site during the peak watering month if watered at 100 percent of reference evapotranspiration (ET<sub>o</sub>). The following formula is used to calculate the baseline:

$$Baseline = ET_o \times A \times C_u$$

Where:  
ET<sub>o</sub> = Local reference evapotranspiration (inches/month)  
A = Landscaped area (square feet)  
C<sub>u</sub> = Conversion factor (0.6233 for results in gallons/month)

The LWA is the water allotment for the site. The following formula is used to calculate the LWA:

$$LWA = 0.70 \times Baseline$$

Where:  
LWA = Landscape water allowance (gallons/month)  
Baseline = ET<sub>o</sub> x landscaped area x 0.6233

To calculate the Baseline and LWA for a site, enter the designed landscaped area and average monthly reference evapotranspiration for the site's peak watering month. (Enter data in white cells only.)

**STEP 1A - ENTER THE LANDSCAPED AREA (A)**  
139,112 Area of the designed landscape (square feet)

**STEP 1B - ENTER THE AVERAGE MONTHLY REFERENCE EVAPOTRANSPIRATION (ET<sub>o</sub>)**  
6.21 Average monthly reference ET (inches/month) for the site's peak watering month  
Obtain from Water Budget Data Finder at <https://www.epa.gov/watersense/water-budget-data-finder>

#### OUTPUT - BASELINE FOR THE SITE

538,489 Monthly baseline (gallons/month) based on the site's peak watering month

#### OUTPUT - WATER ALLOWANCE FOR THE SITE

376,942 Monthly landscape water allowance (gallons/month) based on the site's peak watering month

Next Step: Click on the next tab labeled Part 2 - LWR to calculate the landscape water requirement.



**WaterSense New Home Specification Water Budget Tool (V 1.03)**

This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.

Your Name: \_\_\_\_\_  
 Builder Name: \_\_\_\_\_  
 Lot Number/Street Address: \_\_\_\_\_  
 City, State, Zip Code: \_\_\_\_\_  
 Peak Watering Month: \_\_\_\_\_  
 Is an irrigation system being installed on this site?  Yes



This worksheet determines the monthly landscape water requirement (LWR) for a site based on its peak watering month. The monthly LWR is the water requirement specific to the designed landscape. The sum of the LWRs for each hydrozone equals the site LWR. The following formula is used to calculate the LWR for each hydrozone:

$$LWR_H = \frac{1}{DU_{LQ}} [(ET_o \cdot K_L) \cdot R_o] \cdot A \cdot C_c$$

Where:  
 LWR<sub>H</sub> = Landscape water requirement for the hydrozone (gallons/month)  
 DU<sub>LQ</sub> = Lower quarter distribution uniformity  
 ET<sub>o</sub> = Local reference evapotranspiration (inches/month)  
 K<sub>L</sub> = Landscape coefficient for the type of plant in that hydrozone (dimensionless)  
 R<sub>o</sub> = Allowable rainfall, designated by WaterSense as 25% of average peak monthly rainfall (R)  
 A = Area of the hydrozone (square feet)  
 C<sub>c</sub> = Conversion factor (0.6235 for results in gallons/month)

To calculate the LWR for the site, enter the information requested below for the site's peak watering month. (Enter data in white cells only.)

**STEP 2A - ENTER THE AVERAGE MONTHLY RAINFALL (R) AT THE SITE FOR THE PEAK WATERING MONTH IDENTIFIED IN PART 1**

\_\_\_\_\_ Average monthly rainfall (inches/month) for the site's peak watering month

Obtain from Water Budget Data Folder at <http://www.esa.com/watersense/water-budget-data-folder>.

**STEP 2B - COMPLETE TABLE 1 BELOW (enter data in white cells only)**

Enter the area of the hydrozone (square feet). The total area must equal the landscaped area entered in Step 1A.

Choose the plant type from the dropdown list (source data is displayed in Table 2).

Choose the irrigation type from the dropdown list (source data is displayed in Table 3; guidance is displayed in Table 4 and Table 5).

Table 1. Landscape Water Requirement

Zone	Hydrozone/Landscape Feature Area (sq. ft.)	Plant Type or Landscape Feature	Landscape Coefficient (K <sub>L</sub> )	Irrigation Type	Distribution Uniformity (DU <sub>LQ</sub> )	LWR <sub>H</sub> (gallons/month)
1	2,300	Trees - Medium water requirement	0.5	Drip - Standard	70%	8,800
2	2,300	Trees - Low water requirement	0.2	Drip - Standard	70%	2,843
3	41,877	Trees - Medium water requirement	0.5	Drip - Standard	70%	116,233
4	41,877	Trees - Low water requirement	0.2	Drip - Standard	70%	48,090
5	580	Trees - Medium water requirement	0.5	Drip - Standard	70%	1,548
6	580	Trees - Low water requirement	0.2	Drip - Standard	70%	810
7	13,535	Trees - Medium water requirement	0.5	Drip - Standard	70%	37,423
8	13,535	Trees - Low water requirement	0.2	Drip - Standard	70%	14,969
9	7,759	Trees - Medium water requirement	0.5	Drip - Standard	70%	21,403
10	7,759	Trees - Low water requirement	0.2	Drip - Standard	70%	8,581
11	3,635	Trees - Medium water requirement	0.5	Drip - Standard	70%	10,052
12	3,635	Trees - Low water requirement	0.2	Drip - Standard	70%	4,821
13						
14						
15						
<b>Total Area =</b>	<b>132,112</b>	<b>Landscape Water Requirement for the Site (gallons/month)</b>				<b>269,244</b>

Table 2. Plant Type or Landscape Feature and Associated Landscape Coefficient

Plant Type or Landscape Feature	K <sub>L</sub>		
	Low	Medium	High
Trees	0.2	0.5	0.5
Shrubs	0.2	0.5	0.7
Groundcover	0.2	0.5	0.7
Turfgrass	0.5	0.7	0.8
Pool, Spa, or Water Feature	0		
Permeable Hardscape	0		
Nonvegetated Softscape	0		

Table 3. Distribution Uniformity

Irrigation Type	DU <sub>LQ</sub> or DU <sub>0.2</sub>
Drip - Standard	70%
Drip - Press Comp	85%
Fixed Spray	85%
Microspray	70%
Rotor	75%
No Irrigation	NA

Lower quarter distribution uniformity (DU<sub>LQ</sub>) and DU<sub>0.2</sub> are used for drip and microspray systems. DU<sub>0.2</sub> applies to fixed spray systems.  
 Source: The Irrigation Association, October 2007 (14) Landscape Irrigation Scheduling and Water Management, 5, 2783

Source: based on USEPA for Home Planning System 2008.

Table 4. Appropriate Irrigation Types - Landscaped Areas with Irrigation Systems

IF THE PLANT TYPE IS:	THEN THE IRRIGATION TYPE CAN BE:			
	Drip - Standard	Drip - Press Comp	Fixed Spray	Microspray*
Trees	x	x		x
Shrubs	x	x		x
Groundcover	x	x		x
Turfgrass	x	x	x	x

\*Microspray may only be used on irrigation when turfgrass is present. Turfgrass is defined according to the 2008 ANSI AIAA 2008 2008 Landscape Irrigation Scheduling and Water Management, 5, 2783. Microspray is a low irrigation emission device with one or more orifices to create multiple water pressure to water 2000 gpm with a flow rate not to exceed 1.0 gpm per hour (11.3 gpm per hour) at the target area of coverage available for the entire system when operated at 30 psi (20.8 kPa). Microspray are included in "Microspray" and "Microspray 200".

Table 5. Appropriate Irrigation Types - Landscaped Areas without Irrigation Systems

IF THE PLANT TYPE OR LANDSCAPE FEATURE IS:	THEN THE IRRIGATION TYPE SHALL BE:		
	Drip - Standard	Fixed Spray	No Irrigation
Trees, Shrubs, or Groundcover with Low Water Requirements (K <sub>L</sub> = 0.2)	x		
Trees, Shrubs, or Groundcover with Medium or High Water Requirements (K <sub>L</sub> > 0.2)		x	
Turfgrass with Low, Medium, or High Water Requirements (K <sub>L</sub> > 0.2)		x	
Pool, Spa, or Water Feature			x
Permeable Hardscape			x
Nonvegetated Softscape			x

Please see additional information in the WaterSense Water Budget Approach for landscaped areas without irrigation systems.

**OUTPUT - WATER REQUIREMENT FOR THE SITE**

**269,244** Monthly landscape water requirement (gallons/month) based on the site's peak watering month

Next Step: Click on the next tab labeled Part 2 - Results to view the results.

### WaterSense New Home Specification: Water Budget Tool (V 1.03)

This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.

Your Name:   
Builder Name:   
Lot Number/Street Address:   
City, State, Zip Code:   
Peak Watering Month:   
Is an irrigation system being installed on this site?



### This worksheet determines if the designed landscape meets the water budget.

If the landscape water requirement is LESS than the landscape water allowance, then the water budget criterion is met.  
If the landscape water requirement is GREATER than the landscape water allowance, then the landscape and/or irrigation system needs to be redesigned to use less water.

#### STEP 3A - REVIEW THE LWA AND LWR FROM PART 1 AND PART 2

LWA  (gallons/month) LWR  (gallons/month)

#### STEP 3B - REVIEW THE TOTAL AREA OF TURFGRASS\* IN THE DESIGNED LANDSCAPE FROM STEP 2B

The designed landscape contains  square feet of turfgrass.\* This is  of the landscaped area.

\*This includes the area of any pools, spas, and/or water features, designated by WaterSense to be counted as turfgrass.

### OUTPUT - DOES THE DESIGNED LANDSCAPE MEET THE WATER BUDGET?

If YES, then the water budget criterion is met.  
If NO, then the landscape and/or irrigation system needs to be redesigned to use less water.

The designed landscape water requirement is a  reduction in water use from the baseline calculated in Part 1.

## APPENDIX C

**Appendix C**  
**Proposed IBEC Project Water Demands (Arena and Plaza Events)**

Event Type	Number of Employees per Event [1]	Average Attendance per Event [1]	Baseline Water Use (gpcd)		Events per Year [1]	Estimated Water Demand	
			Per Employee [2]	Per Visitor [2]		Gallons per Year	AFY
<b>LA Clippers Home Games</b>							
Pre-Season Games	1,320	18,000	8.1	1.3	5	171,800	0.5
Regular Season Games	1,320	18,000	8.1	1.3	41	1,409,000	4.3
Postseason Games	1,320	18,000	8.1	1.3	3	103,100	0.3
<b>Concerts</b>							
5 per year (large)	1,120	18,500	8.1	1.3	5	167,000	0.5
8 per year (medium)	795	14,500	8.1	1.3	8	204,000	0.6
10 per year (small)	530	9,500	8.1	1.3	10	167,800	0.5
<b>Family Shows</b>							
20 shows per year	530	8,500	8.1	1.3	20	309,400	0.9
<b>Other Events</b>							
35 events per year	480	7,500	8.1	1.3	35	481,200	1.5
<b>Corporate/Community Events</b>							
100 per year	25	2,000	8.1	1.3	100	282,800	0.9
<b>Plaza Events</b>							
16 per year	25	4,000	8.1	1.3	16	87,300	0.3
<b>Practice Events</b>							
260 per year [3]	54	0	8.1	1.3	260	114,300	0.35
<b>Cooling Towers</b>							
Cooling Towers [4]						4,800,000	14.7
<b>Total</b>						<b>8,297,700</b>	<b>25.5</b>

**Notes:**

AFY = acre feet per year  
gpcd = gallons per day per capita

**Source:**

- [1] "IBEC Anticipated Annual Events Characteristics", provided Murphy's Bowl, 2019
- [2] See Appendix A
- [3] Pursuant to communications with Murphy's Bowl, 2019
- [4] Proposed cooling tower water demand estimate based on communications with Murphy's Bowl, 2019

**Appendix C**  
**Proposed IBEC Project Water Demands (Office, Retail, Restaurant, Cleaning, and Hotel)**

Other Components	Area (sf) [1]	Unit Rate	Days per Year	Annual Water Use (gal)	AFY
Office Space	111,000	68.5 gpd per 1,000 sf [2]	260	1,976,900	6.1
Retail Space	24,000	148 gpd per 1,000 sf [2]	365	1,293,200	4.0
Restaurant Space	24,000	165 gpd per 1,000 sf [2]	365	1,445,400	4.4
Landscape	139,112	[2]		2,164,900	6.6
Washdown and Facility Cleaning					
Outdoor (Hardscape and Parking Areas)	577,669	[2]		225,665	0.7
Indoor (Arena and Practice Facilities)	1,000,000	[2]		768,000	2.4
Hotel (150 rooms)		[2]		4,448,400	13.7
<b>Total</b>				<b>12,322,465</b>	<b>37.8</b>

**Notes:**

AFY = acre feet per year  
gpd = gallons per day  
sf = square feet

**Source:**

[1] "IBEC Project Program", provided by Murpy's Bowl, 2019  
[2] See Appendix B "Gold Water Demand Use Rate Estimates"

Appendix C - Proposed IBEC Project Water Demand Use Rate Estimates

Event Center End Uses								
1. Visitors								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.35	gal/min	0.25	min	1	0.1	Source[6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	1	0.1	Source[6]	Source [2] Table 8
Toilets	1.1	gal/flush	1	flush	1	1.1	Source[6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>1.3</b>		
2. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Employee	Source for Rates	Source for No. of Units and Ave. Daily Use
Showerhead	1.5	gal/min	5	min	0.3	2.3	Source[6]	Source [2] Table 8
Restroom Sink Faucet	0.35	gal/min	0.25	min	3	0.3	Source[6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	2	0.3	Source[6]	Source [2] Table 8
Toilet	1.1	gal/flush	1	flush	4	4.4	Source[6]	Source [2] Table 8
Kitchen Faucet	1.5	gal/min	0.25	min	1	0.4	Source[6]	Source [2] Table 8
Laundry	4	gal/pound	0.5	pound	0.3	0.6	Source [2] Table 8	Source [2] Table 8
					<b>Sub-Total</b>	<b>8.1</b>		
Office End Uses								
1. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Showerhead	1.5	gal/min	5	min	0.3	2.3	Source [6]	Source [2] Table 8
Restroom Sink Faucet	0.35	gal/min	0.25	min	3	0.3	Source [6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	2	0.3	Source [6]	Source [2] Table 8
Toilet	1.1	gal/flush	1	flush	4	4.4	Source [6]	Source [2] Table 8
Kitchen Faucet	1.5	gal/min	0.25	min	1	0.4	Source [6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>7.7</b>		
					<b>Gross sf/Employee</b>	<b>200</b>	Source [2] Table 8	Source [2] Table 8
					<b>GPD per 1,000 gross sf</b>	<b>38.5</b>		
2. Dishwasher	4.8	gal/cycle	1	cycle	1	5	Source [7, Source [1]	Source [2] Table 8
3. Cooling Equipment	0.0196	gal/sf	1000	sf	1	20	Source [2] Table 8	Source [2] Table 8
4. Indoor Floor Cleaning	0.75	gal/min	4	min/1000 sf	0.7	2	Source [2] Table 8	Source [2] Table 8
5. Misc (assumed 5%)						3	Source [2] Table 8	Source [2] Table 8
						<b>Total GPD per 1,000 gross sf</b>	<b>68.5</b>	

[3] Pursuant to communications with Murphy's Bowl, 2019

Retail End Uses								
1. Customer								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.35	gal/min	0.25	min	1	0.0875	Source [6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	1	0.125	Source [6]	Source [2] Table 8
Toilets	1.1	gal/flush	1	flush	1	1.1	Source [6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>1.3125</b>		
					<b>gross sf/customer</b>	<b>10</b>	Source [2] Table 8	
					<b>GPD per 1,000 gross sf</b>	<b>131.25</b>		
2. Full-Time Employees								
Type	Rate	Unit	No. of Units	Unit	Ave. Daily Use	GPD per Visitor	Source for Rates	Source for No. of Units and Ave. Daily Use
Restroom Sink Faucet	0.35	gal/min	0.25	min	3	0.2625	Source [6]	Source [2] Table 8
Urinals	0.125	gal/flush	1	flush	2	0.25	Source [6]	Source [2] Table 8
Toilets	1.1	gal/flush	1	flush	4	4.4	Source [6]	Source [2] Table 8
					<b>Sub-Total</b>	<b>4.9125</b>		
					<b>Gross sf/Employee</b>	<b>300</b>	Source [2] Table 8	Source [2] Table 8
					<b>GPD per 1,000 gross sf</b>	<b>16</b>		
<b>Total GPD per 1,000 gross sf</b>						<b>148</b>		

Restaurant End Uses						
Type	Rate	Unit	Ave. Daily Use	GPD	Source for Rates	
Restaurant	300	gal/day/1,000 sf	1	300	Source [3]	
			<b>Sub-Total</b>	<b>300</b>		
			<b>GPD per 1,000 gross sf</b>	<b>300</b>		
<b>Total GPD per 1,000 gross sf</b>				<b>165</b>	Assume 45% reduction	

Washdown and Facility Cleaning								
Type	Flow Rate	Unit	No. of Units	Unit	Ave Yearly Use	GPY per 1,000 GSF	Source for Rates	Source for No. of Units and Ave. Daily Use
Outdoor Hardscape Washdown (includes two parking areas) Total = 437,379 sf [4]								
South Parking garage = 70,770 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
West Parking garage = 192,063 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
Outdoor Hardscape = 174,546 sf	5	gal/min	30	min/1,000 sf	4	600	Source [2] Table 8	Source [2] Table 8
					<b>Project Annual Water Use (gal)</b>	<b>183,578</b>		
Eastern Parking Area Outdoor Hardscape Washdown Eastern Parking Garage = 140,290 sf	5	gal/min	30	min/1,000 sf	2	300	Source [2] Table 8	Source [2] Table 8
					<b>Project Annual Water Use (gal)</b>	<b>42,087</b>		
Indoor floor cleaning Total = 915,000 sf of Arena plus 85,000 sf of Practice/Training Facility	0.75	gal/min	4	min/1,000 sf	256	768	Source [2] Table 8	Source [2] Table 8
					<b>Project Annual Water Use (gal)</b>	<b>768,000</b>		
					<b>(using total area of 1,000,000 sf)</b>			
					<b>Total GPY</b>	<b>993,665</b>		

Landscape Area						
Type	ETo	Plant Factor	Irrigated Area	Irrigation Efficiency	Ave Yearly Use GPY	Source
Planting Area Total = 139,112 sf	50.2	0.35	139,112	0.7	2,164,861	Irrigation Demand = (ETo) x (0.62) x ((PF x IA) / IE) Murphy's Bowl (Landscape Narrative)
					<b>Total GPY</b>	<b>2,164,861</b>

\*ETo from International Water Management Institute (<http://wcatlas.iwmi.org/Default.asp>) data for Project area  
Plant factor based on an even distribution of plants with medium (0.5) and low (0.2) water requirements  
Irrigation efficiency (0.7) based on standard drip irrigation



Hotel					
Type	No. Rooms	Gallons per room per day	No. of Days	Ave Yearly Use GPY	Source
150 Rooms	150	125	365	6,843,750	Source [5] Appendix F
				Total GPY 4,448,438	Assume 35% reduction

**Sources:**

- [1] "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency
- [2] "Mission Bay Blocks 29-32 – Water Demand Memorandum", BKF Engineers, November 2014,
- [3] "Convention and Event Center Project - Draft Environmental Impact Report", City of Los Angeles, April 2012, Volume IV.K.1, Utilities - Water (Table IV.K.1-9)
- [4] Communications with Murphy's Bowl, 2019
- [5] "City of Inglewood's 2010 Urban Water Management Plan", May 2011
- [6] <https://www.americanstandard-us.com/-/media/sites/asus/files/support-files/2015-water-efficiency-brochure.pdf?la=en>

**Notes:**

- gal/min = gallons per minute
- GPY = gallons per day
- sf = square feet

**Attachment 3, Appendix A**  
**IBEC Project GHG Analysis**

# Table of Contents

Proposed IBEC Project Emissions Summary .....	2
Variant Emissions Summary .....	4
Baseline Emissions Summary .....	6
Construction Emissions Summary .....	8
Backfill Operational Emissions .....	10
IBEC Project Operations Emissions without GHG Reduction Measures.....	12
IBEC Project Operations with GHG Reduction Measures .....	14
IBEC Project with Local, Direct GHG Reduction Measures.....	16
Potential Additional Local, Direct Measures .....	18
Mobile Source Emissions .....	20
CalEEMod Outputs .....	26
Project Operations Outputs .....	27
Backfill Operations Outputs .....	354
Baseline Emissions Outputs .....	437
Construction Emissions Outputs.....	567

## **Proposed IBEC Project Emissions Summary**

Net GHG Emissions Summary: Proposed IBEC Project

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions without TDM and without Project Design Features	Emissions Source Construction	3,834	8,373	7,437	1,188														
	Project Operations				11,996	23,244	22,595	22,014	21,492	21,020	20,593	20,033	19,480	18,961	18,473	18,015	17,583	17,177	
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655	
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,834</b>	<b>8,373</b>	<b>7,437</b>	<b>13,647</b>	<b>24,141</b>	<b>23,466</b>	<b>22,861</b>	<b>22,316</b>	<b>21,822</b>	<b>21,373</b>	<b>20,795</b>	<b>20,222</b>	<b>19,684</b>	<b>19,178</b>	<b>18,702</b>	<b>18,254</b>	<b>17,831</b>	
	Existing Operations (2018)	1,209	1,209	1,209	7,249	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
	<b>NET GHG EMISSIONS</b>	<b>2,625</b>	<b>7,164</b>	<b>6,228</b>	<b>6,398</b>	<b>10,852</b>	<b>10,177</b>	<b>9,572</b>	<b>9,027</b>	<b>8,533</b>	<b>8,084</b>	<b>7,505</b>	<b>6,933</b>	<b>6,395</b>	<b>5,889</b>	<b>5,413</b>	<b>4,965</b>	<b>4,542</b>	
	<b>Cumulative Total</b>	<b>2,625</b>	<b>9,789</b>	<b>16,016</b>	<b>22,414</b>	<b>33,266</b>	<b>43,443</b>	<b>53,015</b>	<b>62,042</b>	<b>70,575</b>	<b>78,659</b>	<b>86,164</b>	<b>93,097</b>	<b>99,492</b>	<b>105,381</b>	<b>110,794</b>	<b>115,759</b>	<b>120,301</b>	
	Emissions Source Construction		2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Project Operations	16,792	16,426	16,075	15,739	15,414	15,098	14,789	14,485	14,187	13,894	13,606	13,323	13,045	12,772	12,504	12,241	11,982	11,728
	Backfilled Operations	639	624	609	594	580	566	552	538	524	510	497	484	471	458	445	432	419	406
<b>Total Project Emissions (Indirect + Direct)</b>	<b>17,431</b>	<b>17,049</b>	<b>16,684</b>	<b>16,333</b>	<b>15,994</b>	<b>15,663</b>	<b>15,340</b>	<b>15,023</b>	<b>14,711</b>	<b>14,407</b>	<b>14,110</b>	<b>13,819</b>	<b>13,534</b>	<b>13,254</b>	<b>12,979</b>	<b>12,708</b>	<b>12,441</b>	<b>12,178</b>	
Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
<b>NET GHG EMISSIONS</b>	<b>4,142</b>	<b>3,760</b>	<b>3,395</b>	<b>3,044</b>	<b>2,704</b>	<b>2,374</b>	<b>2,051</b>	<b>1,733</b>	<b>1,415</b>	<b>1,098</b>	<b>781</b>	<b>464</b>	<b>147</b>	<b>165</b>	<b>390</b>	<b>622</b>	<b>852</b>	<b>1,089</b>	
<b>Cumulative Total</b>	<b>124,442</b>	<b>128,202</b>	<b>131,597</b>	<b>134,641</b>	<b>137,345</b>	<b>139,719</b>	<b>141,770</b>	<b>143,504</b>	<b>145,028</b>	<b>146,343</b>	<b>147,459</b>	<b>148,386</b>	<b>149,124</b>	<b>149,673</b>	<b>150,034</b>	<b>150,207</b>	<b>150,292</b>	<b>150,299</b>	

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions with TDM and 50% Project Design Features	Emissions Source Construction	3,834	8,373	7,437	1,188														
	Project Operations				10,260	19,907	19,375	18,898	18,468	18,077	17,721	17,229	16,741	16,281	15,845	15,432	15,042	14,672	
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655	
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,834</b>	<b>8,373</b>	<b>7,437</b>	<b>11,911</b>	<b>20,805</b>	<b>20,247</b>	<b>19,745</b>	<b>19,292</b>	<b>18,879</b>	<b>18,502</b>	<b>18,190</b>	<b>17,883</b>	<b>17,004</b>	<b>16,550</b>	<b>16,120</b>	<b>15,713</b>	<b>15,327</b>	
	Existing Operations (2018)	1,209	1,209	1,209	7,249	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
	<b>NET GHG EMISSIONS</b>	<b>2,625</b>	<b>7,164</b>	<b>6,228</b>	<b>4,662</b>	<b>7,516</b>	<b>6,958</b>	<b>6,456</b>	<b>6,002</b>	<b>5,589</b>	<b>5,213</b>	<b>4,701</b>	<b>4,193</b>	<b>3,714</b>	<b>3,260</b>	<b>2,831</b>	<b>2,424</b>	<b>2,037</b>	
	<b>Cumulative Total</b>	<b>2,625</b>	<b>9,789</b>	<b>16,016</b>	<b>20,678</b>	<b>28,194</b>	<b>35,151</b>	<b>41,607</b>	<b>47,609</b>	<b>53,198</b>	<b>58,411</b>	<b>63,112</b>	<b>67,305</b>	<b>71,019</b>	<b>74,280</b>	<b>77,111</b>	<b>79,534</b>	<b>81,572</b>	
	Emissions Source Construction		2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Project Operations	14,319	14,004	13,676	13,360	13,053	12,752	12,458	12,168	11,882	11,600	11,322	11,048	10,778	10,512	10,250	10,000	9,752	9,506
	Backfilled Operations	639	624	609	594	580	566	552	538	524	510	497	484	471	458	445	432	419	406
<b>Total Project Emissions (Indirect + Direct)</b>	<b>14,958</b>	<b>14,628</b>	<b>14,285</b>	<b>13,954</b>	<b>13,632</b>	<b>13,318</b>	<b>13,010</b>	<b>12,706</b>	<b>12,406</b>	<b>12,110</b>	<b>11,818</b>	<b>11,530</b>	<b>11,246</b>	<b>10,966</b>	<b>10,690</b>	<b>10,418</b>	<b>10,150</b>	<b>9,886</b>	
Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
<b>NET GHG EMISSIONS</b>	<b>1,669</b>	<b>1,339</b>	<b>995</b>	<b>665</b>	<b>343</b>	<b>29</b>	<b>(279)</b>	<b>(584)</b>	<b>(600)</b>	<b>(613)</b>	<b>(623)</b>	<b>(632)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	<b>(640)</b>	
<b>Cumulative Total</b>	<b>83,241</b>	<b>84,580</b>	<b>85,575</b>	<b>86,240</b>	<b>86,583</b>	<b>86,611</b>	<b>86,332</b>	<b>85,748</b>	<b>85,149</b>	<b>84,536</b>	<b>83,913</b>	<b>83,280</b>	<b>82,640</b>	<b>82,000</b>	<b>81,359</b>	<b>80,719</b>	<b>80,079</b>	<b>79,439</b>	

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions with TDM and 100% Project Design Features	Emissions Source Construction	3,834	8,373	7,437	1,188														
	Project Operations				10,143	19,678	19,149	18,674	18,247	17,860	17,507	17,026	16,549	16,100	15,675	15,274	14,895	14,536	
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655	
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,834</b>	<b>8,373</b>	<b>7,437</b>	<b>11,795</b>	<b>20,575</b>	<b>20,020</b>	<b>19,522</b>	<b>19,071</b>	<b>18,661</b>	<b>18,288</b>	<b>17,877</b>	<b>17,291</b>	<b>16,823</b>	<b>16,380</b>	<b>15,961</b>	<b>15,566</b>	<b>15,190</b>	
	Existing Operations (2018)	1,209	1,209	1,209	7,249	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
	<b>NET GHG EMISSIONS</b>	<b>2,625</b>	<b>7,164</b>	<b>6,228</b>	<b>4,545</b>	<b>7,286</b>	<b>6,731</b>	<b>6,232</b>	<b>5,782</b>	<b>5,372</b>	<b>4,998</b>	<b>4,608</b>	<b>4,001</b>	<b>3,533</b>	<b>3,091</b>	<b>2,672</b>	<b>2,276</b>	<b>1,901</b>	
	<b>Cumulative Total</b>	<b>2,625</b>	<b>9,789</b>	<b>16,016</b>	<b>20,562</b>	<b>27,848</b>	<b>34,579</b>	<b>40,811</b>	<b>46,593</b>	<b>51,965</b>	<b>56,964</b>	<b>61,461</b>	<b>65,463</b>	<b>68,996</b>	<b>72,087</b>	<b>74,759</b>	<b>77,035</b>	<b>78,936</b>	
	Emissions Source Construction		2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Project Operations	14,194	13,890	13,573	13,268	12,972	12,683	12,399	12,120	11,845	11,574	11,307	11,044	10,785	10,530	10,279	10,032	9,788	9,546
	Backfilled Operations	639	624	609	594	580	566	552	538	524	510	497	484	471	458	445	432	419	406
<b>Total Project Emissions (Indirect + Direct)</b>	<b>14,833</b>	<b>14,514</b>	<b>14,181</b>	<b>13,862</b>	<b>13,551</b>	<b>13,248</b>	<b>12,951</b>	<b>12,658</b>	<b>12,369</b>	<b>12,084</b>	<b>11,803</b>	<b>11,526</b>	<b>11,253</b>	<b>10,984</b>	<b>10,719</b>	<b>10,458</b>	<b>10,200</b>	<b>9,946</b>	
Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	
<b>NET GHG EMISSIONS</b>	<b>1,544</b>	<b>1,225</b>	<b>892</b>	<b>573</b>	<b>262</b>	<b>(41)</b>	<b>(338)</b>	<b>(631)</b>	<b>(647)</b>	<b>(660)</b>	<b>(671)</b>	<b>(680)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	<b>(688)</b>	
<b>Cumulative Total</b>	<b>80,480</b>	<b>81,704</b>	<b>82,597</b>	<b>83,169</b>	<b>83,432</b>	<b>83,391</b>	<b>83,052</b>	<b>82,421</b>	<b>81,774</b>	<b>81,114</b>	<b>80,443</b>	<b>79,763</b>	<b>79,075</b>	<b>78,387</b>	<b>77,699</b>	<b>77,012</b>	<b>76,324</b>	<b>75,636</b>	

Notes: Units are in metric tons CO<sub>2</sub>e per year

## **Variant Emissions Summary**

Net GHG Emissions Summary: Variant

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
GHG Emissions without TDM and without Project Design Features	Emissions Source																		
	Construction	3,860	8,373	7,437	1,188														
	Project Operations				11,996	23,244	22,595	22,014	21,492	21,020	20,593	20,033	19,480	18,961	18,473	18,015	17,583	17,177	
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655	
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,860</b>	<b>8,373</b>	<b>7,437</b>	<b>13,647</b>	<b>24,141</b>	<b>23,466</b>	<b>22,861</b>	<b>22,316</b>	<b>21,822</b>	<b>21,373</b>	<b>20,795</b>	<b>20,222</b>	<b>19,684</b>	<b>19,178</b>	<b>18,702</b>	<b>18,254</b>	<b>17,831</b>	
	Existing Operations (2018)	1,269	1,269	1,269	7,309	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
	<b>NET GHG EMISSIONS</b>	<b>2,591</b>	<b>7,105</b>	<b>6,168</b>	<b>6,339</b>	<b>10,793</b>	<b>10,118</b>	<b>9,513</b>	<b>8,968</b>	<b>8,474</b>	<b>8,025</b>	<b>7,446</b>	<b>6,873</b>	<b>6,336</b>	<b>5,830</b>	<b>5,354</b>	<b>4,905</b>	<b>4,483</b>	
	<b>Cumulative Total</b>	<b>2,591</b>	<b>9,696</b>	<b>15,864</b>	<b>22,203</b>	<b>32,996</b>	<b>43,114</b>	<b>52,626</b>	<b>61,594</b>	<b>70,068</b>	<b>78,092</b>	<b>85,538</b>	<b>92,412</b>	<b>98,747</b>	<b>104,577</b>	<b>109,931</b>	<b>114,836</b>	<b>119,319</b>	
	Emissions Source																		
	Construction																		
Project Operations	16,792	16,426	16,075	15,739	15,414	15,098	14,789	14,485	14,167	13,852	13,537	13,222	12,907	12,592	12,277	11,962	11,647		
Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536		
<b>Total Project Emissions (Indirect + Direct)</b>	<b>17,431</b>	<b>17,049</b>	<b>16,684</b>	<b>16,333</b>	<b>15,994</b>	<b>15,663</b>	<b>15,340</b>	<b>15,023</b>	<b>14,704</b>	<b>14,389</b>	<b>14,074</b>	<b>13,759</b>	<b>13,444</b>	<b>13,129</b>	<b>12,814</b>	<b>12,500</b>	<b>12,185</b>		
Existing Operations (2018)	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349		
<b>NET GHG EMISSIONS</b>	<b>4,082</b>	<b>3,701</b>	<b>3,335</b>	<b>2,985</b>	<b>2,645</b>	<b>2,315</b>	<b>1,992</b>	<b>1,674</b>	<b>1,355</b>	<b>1,037</b>	<b>719</b>	<b>401</b>	<b>85</b>	<b>-463</b>	<b>-927</b>	<b>-1,391</b>	<b>-1,855</b>		
<b>Cumulative Total</b>	<b>123,402</b>	<b>127,102</b>	<b>130,438</b>	<b>133,423</b>	<b>136,068</b>	<b>138,382</b>	<b>140,374</b>	<b>142,048</b>	<b>143,704</b>	<b>145,344</b>	<b>146,973</b>	<b>148,591</b>	<b>150,202</b>	<b>151,812</b>	<b>153,422</b>	<b>155,032</b>	<b>156,643</b>		

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions with TDM and 50% Project Design Features	Emissions Source																	
	Construction	3,860	8,373	7,437	1,188													
	Project Operations				10,260	19,907	19,375	18,898	18,468	18,077	17,721	17,229	16,741	16,281	15,845	15,432	15,042	14,672
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project Emissions (Indirect + Direct)</b>	<b>3,860</b>	<b>8,373</b>	<b>7,437</b>	<b>11,911</b>	<b>20,805</b>	<b>20,247</b>	<b>19,745</b>	<b>19,292</b>	<b>18,879</b>	<b>18,502</b>	<b>17,990</b>	<b>17,483</b>	<b>17,004</b>	<b>16,550</b>	<b>16,120</b>	<b>15,713</b>	<b>15,327</b>
	Existing Operations (2018)	1,269	1,269	1,269	7,309	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
	<b>NET GHG EMISSIONS</b>	<b>2,591</b>	<b>7,105</b>	<b>6,168</b>	<b>4,602</b>	<b>7,456</b>	<b>6,898</b>	<b>6,396</b>	<b>5,943</b>	<b>5,530</b>	<b>5,153</b>	<b>4,811</b>	<b>4,434</b>	<b>4,061</b>	<b>3,695</b>	<b>3,321</b>	<b>2,972</b>	<b>2,655</b>
	<b>Cumulative Total</b>	<b>2,591</b>	<b>9,696</b>	<b>15,864</b>	<b>20,467</b>	<b>27,923</b>	<b>34,821</b>	<b>41,218</b>	<b>47,161</b>	<b>52,691</b>	<b>57,844</b>	<b>62,486</b>	<b>66,620</b>	<b>70,275</b>	<b>73,476</b>	<b>76,248</b>	<b>78,612</b>	<b>80,590</b>
	Emissions Source																	
	Construction																	
Project Operations	14,319	14,004	13,676	13,360	13,053	12,752	12,458	12,168	11,882	11,600	11,322	11,048	10,778	10,511	10,248	10,000	9,756	
Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536	
<b>Total Project Emissions (Indirect + Direct)</b>	<b>14,958</b>	<b>14,628</b>	<b>14,285</b>	<b>13,954</b>	<b>13,632</b>	<b>13,318</b>	<b>13,010</b>	<b>12,706</b>	<b>12,406</b>	<b>12,109</b>	<b>11,816</b>	<b>11,527</b>	<b>11,242</b>	<b>10,961</b>	<b>10,684</b>	<b>10,411</b>	<b>10,142</b>	
Existing Operations (2018)	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	
<b>NET GHG EMISSIONS</b>	<b>1,610</b>	<b>1,280</b>	<b>936</b>	<b>605</b>	<b>284</b>	<b>(30)</b>	<b>(339)</b>	<b>(643)</b>	<b>(659)</b>	<b>(672)</b>	<b>(683)</b>	<b>(692)</b>	<b>(699)</b>	<b>(709)</b>	<b>(717)</b>	<b>(724)</b>	<b>(730)</b>	
<b>Cumulative Total</b>	<b>82,200</b>	<b>83,480</b>	<b>84,416</b>	<b>85,021</b>	<b>85,305</b>	<b>85,275</b>	<b>84,936</b>	<b>84,293</b>	<b>83,634</b>	<b>82,962</b>	<b>82,279</b>	<b>81,588</b>	<b>80,888</b>	<b>80,189</b>	<b>79,489</b>	<b>78,790</b>	<b>78,090</b>	

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GHG Emissions with TDM and 100% Project Design Features	Emissions Source																	
	Construction	3,860	8,373	7,437	1,188													
	Project Operations				10,143	19,678	19,149	18,674	18,247	17,860	17,507	17,026	16,549	16,100	15,675	15,274	14,895	14,536
	Backfilled Operations				463	898	872	847	824	802	781	761	742	723	705	688	671	655
	<b>Total Project (Indirect + Direct)</b>	<b>3,860</b>	<b>8,373</b>	<b>7,437</b>	<b>11,795</b>	<b>20,575</b>	<b>20,020</b>	<b>19,522</b>	<b>19,071</b>	<b>18,661</b>	<b>18,288</b>	<b>17,787</b>	<b>17,291</b>	<b>16,823</b>	<b>16,380</b>	<b>15,961</b>	<b>15,566</b>	<b>15,190</b>
	Existing Operations (2018)	1,269	1,269	1,269	7,309	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
	<b>NET GHG EMISSIONS</b>	<b>2,591</b>	<b>7,105</b>	<b>6,168</b>	<b>4,486</b>	<b>7,227</b>	<b>6,672</b>	<b>6,173</b>	<b>5,723</b>	<b>5,313</b>	<b>4,939</b>	<b>4,438</b>	<b>3,942</b>	<b>3,474</b>	<b>3,031</b>	<b>2,613</b>	<b>2,217</b>	<b>1,842</b>
	<b>Cumulative Total</b>	<b>2,591</b>	<b>9,696</b>	<b>15,864</b>	<b>20,350</b>	<b>27,577</b>	<b>34,249</b>	<b>40,422</b>	<b>46,145</b>	<b>51,458</b>	<b>56,397</b>	<b>60,835</b>	<b>64,777</b>	<b>68,252</b>	<b>71,283</b>	<b>73,896</b>	<b>76,113</b>	<b>77,955</b>
	Emissions Source																	
	Construction																	
Project Operations	14,194	13,890	13,573	13,268	12,972	12,683	12,399	12,120	11,845	11,574	11,307	11,044	10,785	10,530	10,279	10,032	9,789	
Backfilled Operations	639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536	
<b>Total Project (Indirect + Direct)</b>	<b>14,833</b>	<b>14,514</b>	<b>14,181</b>	<b>13,862</b>	<b>13,551</b>	<b>13,248</b>	<b>12,951</b>	<b>12,658</b>	<b>12,369</b>	<b>12,084</b>	<b>11,802</b>	<b>11,523</b>	<b>11,248</b>	<b>10,976</b>	<b>10,707</b>	<b>10,441</b>	<b>10,178</b>	
Existing Operations (2018)	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	
<b>NET GHG EMISSIONS</b>	<b>1,484</b>	<b>1,165</b>	<b>833</b>	<b>514</b>	<b>203</b>	<b>(100)</b>	<b>(397)</b>	<b>(690)</b>	<b>(707)</b>	<b>(719)</b>	<b>(730)</b>	<b>(739)</b>	<b>(747)</b>	<b>(754)</b>	<b>(760)</b>	<b>(766)</b>	<b>(771)</b>	
<b>Cumulative Total</b>	<b>79,439</b>	<b>80,605</b>	<b>81,437</b>	<b>81,951</b>	<b>82,154</b>	<b>82,054</b>	<b>81,656</b>	<b>80,966</b>	<b>80,259</b>	<b>79,540</b>	<b>78,810</b>	<b>78,070</b>	<b>77,323</b>	<b>76,576</b>	<b>75,829</b>	<b>75,082</b>	<b>74,335</b>	

Notes: Units are in metric tons CO<sub>2</sub>e per year

## **Baseline Emissions Summary**



**Baseline Emissions**

Baseline Operational Annual Emissions	
Four components make up the baseline operation's emissions:	
1	Existing On-Site Buildings
2	Existing LA Clippers Facilities (Organization Office)
3	Existing LA Clippers Games at the Staples Center
4	Existing Market-Shifted Events

Baseline Operational Year 2018

Total Baseline Emissions (MT CO <sub>2</sub> e/year)		
Emissions Source	Proposed Project	Variants
Area	0.00	1.35
Energy	2,827.87	2,835.95
Mobile	9,130.12	9,176.97
Waste	281.51	282.82
Water	1,049.78	1,051.44
<b>Total</b>	<b>13,289.29</b>	<b>13,348.53</b>

Component 1 Existing Onsite Buildings (MT CO <sub>2</sub> e/year)		
Emission Source	Proposed Project	Variants
Area	0.00	1.35
Energy	211.51	219.59
Mobile	924.83	971.67
Waste	35.51	36.82
Water	37.56	39.21
<b>Total</b>	<b>1,209.41</b>	<b>1,268.65</b>

Component 2a Existing LA Clippers Team Offices (MT CO <sub>2</sub> e/year)		
Emission Source	MT per year	
Area	0.00	
Energy	115.24	
Mobile	211.54	
Waste	9.29	
Water	28.39	
<b>Total</b>	<b>364.46</b>	

Component 3 Existing Clippers Games at Staples Center (MT CO <sub>2</sub> e/year)		
Emission Source	MT per year	
Area	-	
Energy	998.11	
Mobile	5,363.75	
Waste	122.45	
Water	486.81	
<b>Total</b>	<b>6,971.12</b>	

Component 4 Market-Shifted Events (MT CO <sub>2</sub> e/year)		
Emission Source	MT per year	
Mobile	2,630.01	
Area	-	
Energy	1,503.00	
Waste	114.26	
Water	497.02	
<b>Total</b>	<b>4,744.29</b>	

Assumptions:	
LA Clippers Games account for 21% of the Staples Center Emissions.	
Emissions from market-shifted events based on GHG emissions per attendee basis.	
424,768	Market shifted attendees at proposed IBEC Project (non-NBA events)

Number of Events at Staples Center		
Event	Number of Events	Percent
LA Clippers	44	20.6%
Lakers	44	20.6%
Kings	44	20.6%
Sparks	17	7.9%
Concerts	32	15.0%
Family Shows	22	10.3%
Other	11	5.1%
<b>Total</b>	<b>214.00</b>	<b>100%</b>

Total GHG Emissions from Other Los Angeles Area Venues		
Emission Source	MT CO <sub>2</sub> e/year	MT CO <sub>2</sub> e/year/Attendee
Area	0.00	-
Energy	16,333.05	0.003538
Mobile	-	-
Waste	1241.69	0.00
Water	5401.09	0.00
<b>Total</b>	<b>22,975.84</b>	<b>0.004977509</b>

The Forum	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	1,116.25
Mobile	-
Waste	224.47
Water	712.48
<b>Total</b>	<b>2,053.20</b>

Honda Center	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	10,362.34
Mobile	-
Waste	421.68
Water	2,320.93
<b>Total</b>	<b>13,104.95</b>

Staples Center	
Emission Source	MT CO <sub>2</sub> e/year
Area	0.00
Energy	4,854.46
Mobile	-
Waste	595.55
Water	2,367.68
<b>Total</b>	<b>7,817.69</b>

## Construction Emissions Summary

**Construction Emissions for Proposed IBEC Project and Variants**

<b>Construction Emissions (MT CO<sub>2</sub>e)</b>		
<b>Year</b>	<b>Proposed Project</b>	<b>Variants</b>
2021	3,834.45	3,860.05
2022	8,373.22	8,373.22
2023	7,436.92	7,436.92
2024	1,188.39	1,188.39
<b>Total</b>	<b>20,832.98</b>	<b>20,858.58</b>

Notes: Units are in metric tons CO<sub>2</sub>e per year

<b>Proposed Project</b>	<b>Construction of Arena + Ancillary Land Uses</b>	<b>Construction of Parking Garages</b>
<b>Year</b>	<b>MT CO<sub>2</sub>e</b>	
2021	1749.51	2084.94
2022	5630.46	2742.76
2023	4773.87	2663.05
2024	717.04	471.35
<b>Total</b>	<b>12,870.88</b>	<b>7,962.10</b>

**Removal of additional buildings for the Variant:**

<b>Variant</b>	<b>GHG Emissions (MT CO<sub>2</sub>e)</b>
2021	25.6045

Notes:

Assumes removal of additional buildings occurs in 2021.

Construction of arena + ancillary land uses and parking garages overlap in 2021 through 2024.

## **Backfill Operational Emissions**

Backfilled Operational Emissions

Total Backfilled Emissions by Year

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Clippers Event Nights + Office	925.90	897.69	871.63	847.09	823.87	801.75	780.61	761.05	741.62	722.96	704.99	687.66	670.93	654.75	639.05

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Clippers Event Nights + Office	623.77	608.84	594.22	579.85	565.67	551.66	537.76	537.35	537.02	536.75	536.53	536.34	536.34	536.34	536.34	536.34

Clippers Event Days Backfilled at Staples

7

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	130.60	125.90	121.20	116.50	111.80	107.10	102.40	97.70	93.00	88.30	83.61	78.91	74.21	69.51	64.81
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	370.76	355.94	343.25	332.10	322.26	313.52	305.77	299.59	293.54	288.26	283.67	279.73	276.37	273.58	271.27
Solid Waste	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48
Water	64.15	61.93	59.72	57.50	55.28	53.07	50.85	48.64	46.42	44.20	41.99	39.77	37.55	35.34	33.12
<b>Total</b>	<b>584.99</b>	<b>563.25</b>	<b>543.65</b>	<b>525.58</b>	<b>508.82</b>	<b>493.17</b>	<b>478.50</b>	<b>465.41</b>	<b>452.45</b>	<b>440.25</b>	<b>428.74</b>	<b>417.89</b>	<b>407.62</b>	<b>397.91</b>	<b>388.68</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	60.11	55.41	50.71	46.01	41.31	36.62	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	269.36	267.81	266.58	265.59	264.79	264.16	263.65	263.23	262.90	262.64	262.41	262.22	262.22	262.22	262.22	262.22
Solid Waste	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48
Water	30.90	28.69	26.47	24.26	22.04	19.82	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61
<b>Total</b>	<b>379.86</b>	<b>371.40</b>	<b>363.25</b>	<b>355.34</b>	<b>347.63</b>	<b>340.08</b>	<b>332.65</b>	<b>332.24</b>	<b>331.91</b>	<b>331.64</b>	<b>331.42</b>	<b>331.23</b>	<b>331.23</b>	<b>331.23</b>	<b>331.23</b>	<b>331.23</b>

Backfilled Office

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	92.58	88.80	85.03	81.25	77.47	73.70	69.92	66.14	62.36	58.59	54.81	51.03	47.26	43.48	39.70
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	215.89	214.07	212.26	210.44	208.63	206.81	205.00	203.18	201.36	199.55	197.73	195.92	194.10	192.28	190.47
Solid Waste	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29
Water	23.15	22.27	21.40	20.53	19.65	18.78	17.91	17.03	16.16	15.29	14.41	13.54	12.67	11.79	10.92
<b>Total</b>	<b>340.91</b>	<b>334.44</b>	<b>327.98</b>	<b>321.51</b>	<b>315.04</b>	<b>308.58</b>	<b>302.11</b>	<b>295.64</b>	<b>289.18</b>	<b>282.71</b>	<b>276.24</b>	<b>269.78</b>	<b>263.31</b>	<b>256.84</b>	<b>250.38</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	35.92	32.15	28.37	24.59	20.82	17.04	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	188.65	186.84	185.02	183.20	181.39	179.57	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76
Solid Waste	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29
Water	10.05	9.17	8.30	7.43	6.55	5.68	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80
<b>Total</b>	<b>243.91</b>	<b>237.44</b>	<b>230.98</b>	<b>224.51</b>	<b>218.04</b>	<b>211.58</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>

Note:  
Units are in MT CO<sub>2</sub>e.

# **IBEC Project Operations Emissions without GHG Reduction Measures**

**Proposed IBEC Project Operational Emissions**

Project Condition: Without TDM and without LEED Gold Project Design Features

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,839.37	5,600.87	5,524.82	5,448.78	5,372.73	5,296.69	5,220.64	4,945.77	4,670.90	4,396.03	4,121.16	3,846.29	3,571.42	3,296.55	3,021.68
Area	0.08	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	8,441.55	16,214.19	15,642.69	15,139.75	14,695.91	14,301.55	13,951.27	13,672.91	13,400.32	13,162.21	12,954.84	12,776.87	12,626.02	12,500.33	12,396.28
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	68.08	134.54	132.94	131.35	129.76	128.16	126.57	120.73	114.88	109.04	103.20	97.36	91.51	85.67	79.83
<b>Total</b>	<b>11,996.05</b>	<b>23,243.69</b>	<b>22,594.54</b>	<b>22,013.97</b>	<b>21,492.49</b>	<b>21,020.50</b>	<b>20,592.58</b>	<b>20,033.50</b>	<b>19,480.20</b>	<b>18,961.37</b>	<b>18,473.29</b>	<b>18,014.60</b>	<b>17,583.04</b>	<b>17,176.64</b>	<b>16,791.87</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,746.81	2,471.94	2,197.06	1,922.19	1,647.32	1,372.45	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58	1,097.58
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	12,310.74	12,240.88	12,185.56	12,141.06	12,105.53	12,077.37	12,054.18	12,035.94	12,021.45	12,009.74	12,000.01	11,991.85	11,991.85	11,991.85	11,991.85	11,991.85
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	73.98	68.14	62.30	56.46	50.61	44.77	38.93	38.93	38.93	38.93	38.93	38.93	38.93	38.93	38.93	38.93
<b>Total</b>	<b>16,425.62</b>	<b>16,075.05</b>	<b>15,739.01</b>	<b>15,413.80</b>	<b>15,097.56</b>	<b>14,788.68</b>	<b>14,484.78</b>	<b>14,466.54</b>	<b>14,452.05</b>	<b>14,440.34</b>	<b>14,430.61</b>	<b>14,422.45</b>	<b>14,422.45</b>	<b>14,422.45</b>	<b>14,422.45</b>	<b>14,422.45</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Electricity emission factors associated with the project were adjusted for future years, consistent with Renewables Portfolio Standards and based on information provided in SCE 2016 and 2017 Sustainability Reports.

Units are in MT CO<sub>2</sub>e.

**IBEC Project Operations with  
GHG Reduction Measures**



**Proposed IBEC Project Operational Emissions**

Project Condition: With TDM and 100% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,632.60	5,192.98	5,122.46	5,051.94	4,981.42	4,910.89	4,840.37	4,585.46	4,330.55	4,075.64	3,820.73	3,565.82	3,310.91	3,056.00	2,801.09
Area	0.08	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	6,821.60	13,107.21	12,649.79	12,247.04	11,891.41	11,575.24	11,294.21	11,071.35	10,853.10	10,662.33	10,496.08	10,353.27	10,232.68	10,132.14	10,048.86
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	42.17	83.35	82.38	81.40	80.43	79.45	78.48	74.89	71.31	67.72	64.13	60.55	56.96	53.37	49.79
<b>Total</b>	<b>10,143.42</b>	<b>19,677.63</b>	<b>19,148.71</b>	<b>18,674.47</b>	<b>18,247.34</b>	<b>17,859.67</b>	<b>17,507.15</b>	<b>17,025.79</b>	<b>16,549.05</b>	<b>16,099.78</b>	<b>15,675.03</b>	<b>15,273.73</b>	<b>14,894.64</b>	<b>14,535.61</b>	<b>14,193.83</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,546.18	2,291.27	2,036.37	1,781.46	1,526.55	1,271.64	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	10,003.74	9,944.63	9,898.33	9,860.66	9,830.13	9,805.48	9,784.80	9,769.17	9,756.53	9,746.11	9,737.27	9,729.67	9,729.67	9,729.67	9,729.67	9,729.67
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	46.20	42.61	39.03	35.44	31.85	28.27	24.68	24.68	24.68	24.68	24.68	24.68	24.68	24.68	24.68	24.68
<b>Total</b>	<b>13,890.21</b>	<b>13,572.61</b>	<b>13,267.81</b>	<b>12,971.64</b>	<b>12,682.62</b>	<b>12,399.47</b>	<b>12,120.29</b>	<b>12,104.67</b>	<b>12,092.03</b>	<b>12,081.60</b>	<b>12,072.76</b>	<b>12,065.17</b>	<b>12,065.17</b>	<b>12,065.17</b>	<b>12,065.17</b>	<b>12,065.17</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Electricity emission factors associated with the project were adjusted for future years, consistent with Renewables Portfolio Standards and based on information provided in SCE 2016 and 2017 Sustainability Reports.

Units are in MT CO<sub>2</sub>e.

**IBEC Project with Local, Direct  
GHG Reduction Measures**

**Reduction Achieved through 50% of LEED Gold Project Design Features**

50%

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	103.38	203.94	201.18	198.42	195.66	192.90	190.14	180.16	170.17	160.19	150.21	140.23	130.25	120.27	110.29
Water	12.96	25.59	25.28	24.97	24.66	24.36	24.05	22.92	21.79	20.66	19.53	18.40	17.28	16.15	15.02
<b>Total</b>	<b>116.34</b>	<b>229.54</b>	<b>226.47</b>	<b>223.39</b>	<b>220.32</b>	<b>217.25</b>	<b>214.18</b>	<b>203.07</b>	<b>191.96</b>	<b>180.85</b>	<b>169.75</b>	<b>158.64</b>	<b>147.53</b>	<b>136.42</b>	<b>125.31</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	100.31	90.33	80.35	70.37	60.39	50.41	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43
Water	13.89	12.76	11.64	10.51	9.38	8.25	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12
<b>Total</b>	<b>114.20</b>	<b>103.09</b>	<b>91.98</b>	<b>80.88</b>	<b>69.77</b>	<b>58.66</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>	<b>47.55</b>

**Proposed IBEC Project Operational Emissions**

Total Reductions Achieved Through LEED

**7,510.21**

Project Condition: With TDM and 50% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,735.98	5,396.92	5,323.64	5,250.36	5,177.07	5,103.79	5,030.51	4,765.62	4,500.73	4,235.84	3,970.95	3,706.06	3,441.17	3,176.28	2,911.39
Area	0.04	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	6,821.60	13,107.21	12,649.79	12,247.04	11,891.41	11,575.24	11,294.21	11,071.35	10,853.10	10,662.33	10,496.08	10,353.27	10,232.68	10,132.14	10,048.86
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	55.13	108.94	107.66	106.38	105.09	103.81	102.53	97.81	93.10	88.38	83.67	78.95	74.24	69.52	64.81
<b>Total</b>	<b>10,259.72</b>	<b>19,907.17</b>	<b>19,375.18</b>	<b>18,897.86</b>	<b>18,467.67</b>	<b>18,076.93</b>	<b>17,721.33</b>	<b>17,228.86</b>	<b>16,741.01</b>	<b>16,280.64</b>	<b>15,844.78</b>	<b>15,432.37</b>	<b>15,042.17</b>	<b>14,672.03</b>	<b>14,319.14</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,646.50	2,381.61	2,116.71	1,851.82	1,586.93	1,322.04	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15	1,057.15
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	10,003.74	9,944.63	9,898.33	9,860.66	9,830.13	9,805.48	9,784.80	9,769.17	9,756.53	9,746.11	9,737.27	9,729.67	9,729.67	9,729.67	9,729.67	9,729.67
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	60.09	55.38	50.66	45.95	41.23	36.52	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
<b>Total</b>	<b>14,004.41</b>	<b>13,675.71</b>	<b>13,359.79</b>	<b>13,052.52</b>	<b>12,752.38</b>	<b>12,458.13</b>	<b>12,167.84</b>	<b>12,152.22</b>	<b>12,139.58</b>	<b>12,129.15</b>	<b>12,120.31</b>	<b>12,112.72</b>	<b>12,112.72</b>	<b>12,112.72</b>	<b>12,112.72</b>	<b>12,112.72</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024).

50%

Electricity emission factors associated with the project were adjusted for future years, consistent with Renewables Portfolio Standards and based on information provided in SCE 2016 and 2017 Sustainability Reports.

Units are in MT CO<sub>2</sub>e.

## Potential Additional Local, Direct Measures

Potential Local Direct Measures

Additional GHG Reductions from Solar PV on East Parking Lot  
Renewable Energy Generated 850,000 kWh per year

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity)	97.99	192.66	189.40	186.15	182.90	179.64	176.39	164.63	152.87	141.11	129.35	117.59	105.83	94.08	82.32
<b>Total</b>	<b>97.99</b>	<b>192.66</b>	<b>189.40</b>	<b>186.15</b>	<b>182.90</b>	<b>179.64</b>	<b>176.39</b>	<b>164.63</b>	<b>152.87</b>	<b>141.11</b>	<b>129.35</b>	<b>117.59</b>	<b>105.83</b>	<b>94.08</b>	<b>82.32</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity)	70.56	58.80	47.04	35.28	23.52	11.76	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>70.56</b>	<b>58.80</b>	<b>47.04</b>	<b>35.28</b>	<b>23.52</b>	<b>11.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed iBEC Project is anticipated to be July 1, 2024). 50%  
Units are in MT CO<sub>2</sub>e.

<b>Total Amount of Reductions Achieved Over Project Lifetime</b>	<b>2,439.88 MT CO<sub>2</sub>e</b>
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Source: CAPCOA Quantification Report Measure AE-2.  
<http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>  
Since zero GHG emissions are associated with electricity generation from PV systems, the GHG emissions reductions from this mitigation measure are equivalent to the emissions that would have been produced had electricity been supplied by the local utility.

Potential Additional GHG Reductions from Participation in SCE Green Rate (100%)

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity)	2,124.23	4,176.26	4,105.73	4,035.21	3,964.69	3,894.17	3,823.64	3,568.73	3,313.83	3,058.92	2,804.01	2,549.10	2,294.19	2,039.28	1,784.37
<b>Total</b>															

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity)	1,529.46	1,274.55	1,019.64	764.73	509.82	254.91	-	-	-	-	-	-	-	-	-	-
<b>Total</b>																

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed iBEC Project is anticipated to be July 1, 2024). 50%  
Units are in MT CO<sub>2</sub>e.

<b>Total Amount of Reductions Achieved Over Project Lifetime</b>	<b>52,889.44 MT CO<sub>2</sub>e</b>
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Potential Additional GHG Reductions from Participation in Renewable Natural Gas (100%)

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity)	508.36	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73
<b>Total</b>															

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity)	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73	1,016.73
<b>Total</b>																

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed iBEC Project is anticipated to be July 1, 2024). 50%  
Units are in MT CO<sub>2</sub>e.

<b>Total Amount of Reductions Achieved Over Project Lifetime</b>	<b>31,010.18 MT CO<sub>2</sub>e</b>
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## **Mobile Source Emissions**

Mobile Source Emissions  
 IREC In-person Event Attendees - Light Duty Vehicles (Auto and TNC Trip)

Project Condition (Maximum Event Attendance) (adj) (2)	Site	Estimated Annual Trips					Total
		Weekday		Weekend		Total	
		Days with Events	Days without Events	Days with Events	Days without Events		
Arena (Employed)	7767	0	71,648	0	72,425	194,540	
Arena (Attendees)	1,128,759	0	7,202,988	0	8,331,747	21,947,034	
LA Clippers Organization Office	275 EMP	67,779	48,159	0	0	115,938	
LA Clippers Team Practice & Training Facility	54 EMP	12,667	6,740	0	0	19,407	
Sports Medicine Clinic	25 EMP	14,566	16,396	0	0	30,962	
Community Space	15 EMP	51,911	36,884	0	0	88,795	
Full-Service Plaza Restaurant/Bar	7 EMP	47,618	45,005	13,774	6,616	113,013	
Quick-Service Restaurant (no drive thru)	8 EMP	54,625	51,907	39,537	7,332	153,781	
Coffee Shop	7 EMP	1,818	13,606	10,617	14,616	30,957	
Quick-Service Restaurant (no drive thru)	6 EMP	102,188	36,806	68,178	13,973	261,144	
LA Clippers Team Store	17 EMP	52,607	15,500	15,500	2,980	86,587	
Other General Retail & Service	130 EMP	52,607	32,266	5,007	146,935	196,815	
Hotel (no full service, no restaurant)	150 EMP	91,656	83,134	79,834	11,201	244,725	
<b>Total</b>	<b>1,988,862</b>	<b>626,398</b>	<b>1,157,388</b>	<b>84,000</b>	<b>3,836,648</b>		

Project Condition (Maximum Event Attendance) (adj) (2)	Site	Estimated Annual Trips					Total
		Weekday		Weekend		Total	
		Days with Events	Days without Events	Days with Events	Days without Events		
Arena (Employed)	7767	0	70,899	0	71,676	194,714	
Arena (Attendees)	1,128,759	0	7,009,897	0	7,017,896	21,947,034	
LA Clippers Organization Office	275 EMP	66,390	48,781	0	0	115,171	
LA Clippers Team Practice & Training Facility	54 EMP	12,723	6,799	0	0	19,522	
Sports Medicine Clinic	25 EMP	14,638	16,396	0	0	31,034	
Community Space	15 EMP	49,335	35,940	0	0	85,275	
Full-Service Plaza Restaurant/Bar	7 EMP	45,137	42,812	10,930	6,995	105,974	
Quick-Service Restaurant (no drive thru)	8 EMP	51,608	48,822	36,627	7,665	144,122	
Coffee Shop	7 EMP	1,927	13,996	10,600	14,609	30,532	
Quick-Service Restaurant (no drive thru)	4 EMP	97,773	31,908	62,769	12,234	264,784	
LA Clippers Team Store	17 EMP	52,607	15,500	15,500	2,980	86,587	
Other General Retail & Service	130 EMP	52,607	32,266	5,007	146,935	196,815	
Hotel (no full service, no restaurant)	150 EMP	91,656	83,134	79,834	11,201	244,725	
<b>Total</b>	<b>1,659,210</b>	<b>598,672</b>	<b>902,875</b>	<b>61,364</b>	<b>3,222,121</b>		

Year	GHG Emissions with IPM Measures																									
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Arena (Employed)	770.29	739.49	713.14	688.90	669.52	651.37	635.26	622.42	609.88	598.29	589.34	581.16	574.19	568.39	563.57	559.63	556.60	553.54	551.37	549.82	547.75	546.29	546.20	545.65	545.18	544.72
Arena (Attendees)	13,133.36	10,945.52	10,819.23	10,683.17	10,547.47	10,411.91	10,276.34	10,140.78	10,005.21	9,869.64	9,734.07	9,598.50	9,462.93	9,327.36	9,191.79	9,056.22	8,920.65	8,785.08	8,649.51	8,513.94	8,378.37	8,242.80	8,107.23	7,971.66	7,836.09	7,700.52
LA Clippers Organization Office	483.84	464.59	445.34	426.09	406.84	387.59	368.34	349.09	329.84	310.59	291.34	272.09	252.84	233.59	214.34	195.09	175.84	156.59	137.34	118.09	98.84	79.59	60.34	41.09	21.84	2.59
LA Clippers Team Practice & Training Facility	82.27	79.98	76.16	71.91	67.66	63.41	59.16	54.91	50.66	46.41	42.16	37.91	33.66	29.41	25.16	20.91	16.66	12.41	8.16	3.91	0.66	0.41	0.16	0.01	0.01	0.01
Sports Medicine Clinic	467.38	441.69	415.99	390.30	364.61	338.92	313.23	287.54	261.85	236.16	210.47	184.78	159.09	133.40	107.71	82.02	56.33	30.64	4.95	0.70	0.45	0.20	0.05	0.00	0.00	0.00
Full-Service Plaza Restaurant/Bar	316.79	304.12	291.45	278.78	266.11	253.44	240.77	228.10	215.43	202.76	190.09	177.42	164.75	152.08	139.41	126.74	114.07	101.40	88.73	76.06	63.39	50.72	38.05	25.38	12.71	0.05
Quick-Service Restaurant (no drive thru)	361.05	347.57	334.10	320.62	307.14	293.66	280.18	266.70	253.22	239.74	226.26	212.78	199.30	185.82	172.34	158.86	145.38	131.90	118.42	104.94	91.46	77.98	64.50	51.02	37.54	24.06
Coffee Shop	88.28	82.90	77.52	72.14	66.76	61.38	55.99	50.61	45.23	39.85	34.47	29.09	23.71	18.33	12.95	7.57	2.19	0.81	0.43	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Quick-Service Restaurant (no drive thru)	684.61	661.71	638.81	615.91	593.01	570.11	547.21	524.31	501.41	478.51	455.61	432.71	409.81	386.91	364.01	341.11	318.21	295.31	272.41	249.51	226.61	203.71	180.81	157.91	135.01	112.11
LA Clippers Team Store	145.51	139.69	133.87	128.05	122.23	116.41	110.59	104.77	98.95	93.13	87.31	81.49	75.67	69.85	64.03	58.21	52.39	46.57	40.75	34.93	29.11	23.29	17.47	11.65	5.83	0.01
Other General Retail & Service	333.36	319.29	305.22	291.15	277.08	263.01	248.94	234.87	220.80	206.73	192.66	178.59	164.52	150.45	136.38	122.31	108.24	94.17	80.10	66.03	51.96	37.89	23.82	9.75	0.00	0.00
Hotel (no full service, no restaurant)	589.40	565.83	542.26	518.69	495.12	471.55	447.98	424.41	400.84	377.27	353.70	330.13	306.56	282.99	259.42	235.85	212.28	188.71	165.14	141.57	118.00	94.43	70.86	47.29	23.72	0.00
<b>Total</b>	<b>16,641.79</b>	<b>15,976.75</b>	<b>15,406.78</b>	<b>14,836.81</b>	<b>14,266.84</b>	<b>13,696.87</b>	<b>13,126.90</b>	<b>12,556.93</b>	<b>11,986.96</b>	<b>11,416.99</b>	<b>10,847.02</b>	<b>10,277.05</b>	<b>9,707.08</b>	<b>9,137.11</b>	<b>8,567.14</b>	<b>7,997.17</b>	<b>7,427.20</b>	<b>6,857.23</b>	<b>6,287.26</b>	<b>5,717.29</b>	<b>5,147.32</b>	<b>4,577.35</b>	<b>4,007.38</b>	<b>3,437.41</b>	<b>2,867.44</b>	<b>2,297.47</b>

Year	GHG Emissions with IPM Measures																									
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Arena (Employed)	520.57	499.75	481.94	464.28	446.62	429.00	411.34	393.68	376.02	358.36	340.70	323.04	305.38	287.72	270.06	252.40	234.74	217.08	199.42	181.76	164.10	146.44	128.78	111.12	93.46	75.80
Arena (Attendees)	8,294.27	6,959.54	6,833.23	6,706.92	6,580.61	6,454.30	6,328.00	6,201.69	6,075.38	5,949.07	5,822.76	5,696.45	5,570.14	5,443.83	5,317.52	5,191.21	5,064.90	4,938.59	4,812.28	4,685.97	4,559.66	4,433.35	4,307.04	4,180.73	4,054.42	3,928.11
LA Clippers Organization Office	459.74	441.36	423.43	405.50	387.57	369.64	351.71	333.78	315.85	297.92	280.00	262.07	244.14	226.21	208.28	190.35	172.42	154.49	136.56	118.63	100.70	82.77	64.84	46.91	28.98	11.05
LA Clippers Team Practice & Training Facility	82.27	76.38	70.49	64.60	58.71	52.82	46.93	41.04	35.15	29.26	23.37	17.48	11.59	5.70	0.81	0.92	1.03	1.14	1.25	1.36	1.47	1.58	1.69	1.80	1.91	2.02
Sports Medicine Clinic	444.02	426.26	408.50	390.74	372.98	355.22	337.46	319.70	301.94	284.18	266.42	248.66	230.90	213.14	195.38	177.62	159.86	142.10	124.34	106.58	88.82	71.06	53.30	35.54	17.78	0.02
Community Space	211.20	193.10	175.00	156.90	138.80	120.70	102.60	84.50	66.40	48.30	30.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Full-Service Plaza Restaurant/Bar	380.95	363.92	346.89	329.86	312.83	295.80	278.77	261.74	244.71	227.68	210.65	193.62	176.59	159.56	142.53	125.50	108.47	91.44	74.41	57.38	40.35	23.32	6.29	0.00	0.00	0.00
Quick-Service Restaurant (no drive thru)	343.94	326.91	309.88	292.85	275.82	258.79	241.76	224.73	207.70	190.67	173.64	156.61	139.58	122.55	105.52	88.49	71.46	54.43	37.40	20.37	3.34	0.00	0.00	0.00	0.00	0.00
Coffee Shop	83.62	78.66	73.70	68.74	63.78	58.82	53.86	48.90	43.94	38.98	34.02	29.06	24.10	19.14	14.18	9.22	4.26	0.30	0.34	0.38	0.42	0.46	0.50	0.54	0.58	0.62
Quick-Service Restaurant (no drive thru)	635.02	609.62	584.22	558.82	533.42	508.02	482.62	457.22	431.82	406.42	381.02	355.62	330.22	304.82	279.42	254.02	228.62	203.22	177.82	152.42	127.02	101.62	76.22	50.82	25.42	0.02
LA Clippers Team Store	138.29	131.71	125.13	118.55	111.97	105.39	98.81	92.23	85.65	79.07	72.49	65.91	59.33	52.75	46.17	39.59	33.01	26.43	19.85	13.27	6.69	0.11	0.00	0.00	0.00	0.00
Other General Retail & Service	315.71	301.29	286.87	272.45	258.03	243.61	229.19	214.77	200.35	185.93	171.51	157.09	142.67	128.25	113.83	99.41	84.99	70.57	56.15	41.73	27.31	12.89	0.00	0.00	0.00	0.00
Hotel (no full service, no restaurant)	589.40	565.83	542.26	518.69	495.12	471.55	447.98	424.41	400.84	377.27	353.70	330.13	306.56	282.99	259.42	235.85	212.28	188.71	165.14	141.57	118.00	94.43	70.86	47.29	23.72	0.00
<b>Total</b>	<b>12,189.34</b>	<b>11,728.49</b>	<b>11,367.56</b>	<b>10,906.63</b>	<b>10,445.70</b>	<b>9,984.77</b>	<b>9,523.84</b>	<b>9,062.91</b>	<b>8,601.98</b>	<b>8,141.05</b>	<b>7,680.12</b>	<b>7,219.19</b>	<b>6,758.26</b>	<b>6,297.33</b>	<b>5,836.40</b>	<b>5,375.47</b>	<b>4,914.54</b>	<b>4,453.61</b>	<b>3,992.68</b>	<b>3,531.75</b>	<b>3,070.82</b>	<b>2,609.89</b>	<b>2,148.96</b>	<b>1,688.03</b>	<b>1,227.10</b>	<b>766.17</b>

Conversion Factors	
gram	1/1000
1000000	1

Assumptions	in/miles	Assumptions
Attendee Trip Length (mi)	21.59	in/miles to zip code data to IREC
Employee Trip Length (mi)	14	in/miles, Home-Work-Calendar Defaults
Commercial Trip Length (mi)	8.4	in/miles, Commercial-Customer-Calendar Defaults

Year	GHG Emissions with IPM Measures																			
	2024	2025	2026	2027																

Mobile Source Emissions

IBEC Maximum Event Attendees - Other Vehicles (Shuttles, Vanpools, Charter Coaches, Minibuses)

Project Condition (Maximum Event Attendees) w/o TDM		Transportation Demand Management Measures				
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	2,912	0	1,828	0	4,740
<b>Total</b>		<b>2,912</b>	<b>0</b>	<b>1,828</b>	<b>0</b>	<b>4,740</b>

Project Condition (Maximum Event Attendees) w/TDM		Transportation Demand Management Measures				
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	3,334	0	2,050	0	5,424
Arena (attendees)	Varies	6,686	0	4,228	0	10,914
LA Clippers Organization Office	279 EMV	0	0	0	0	0
LA Clippers Team Practice & Training Facility	54 EMV	0	0	0	0	0
Sports Medicine Clinic	25 TSE	0	0	0	0	0
Community Space	15 TSE	0	0	0	0	0
Full-Service Plaza Restaurant/Bar	7 TSE	0	0	0	0	0
Full-Service Rooftop Restaurant/Lounge	8 TSE	0	0	0	0	0
Coffee Shop	5 TSE	0	0	0	0	0
Quick-Service Restaurant (no drive thru)	4 TSE	0	0	0	0	0
LA Clippers Team Store	7 TSE	0	0	0	0	0
Other General Retail & Service	17 TSE	0	0	0	0	0
Hotel (no full service, no restaurant)	193 RM	0	0	0	0	0
<b>Total</b>		<b>10,020</b>	<b>0</b>	<b>6,318</b>	<b>0</b>	<b>16,338</b>

Year	GHG Emissions without TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	108.3505	106.754886	105.703329	104.6521725	103.6010161	102.5498592	101.4987	100.4475373	100.3872436	99.3361417	99.27576478	98.22466288	98.16428183	97.1131803	97.05279925	96.00169776	95.94131721	94.89021572	94.82983517	93.77873368	93.71835313	92.66725164	92.60687109	91.5557696	91.49538905	90.44428756	90.38390701
<b>Total</b>	<b>108.36</b>	<b>106.75</b>	<b>105.70</b>	<b>104.65</b>	<b>103.60</b>	<b>102.55</b>	<b>101.50</b>	<b>100.45</b>	<b>100.39</b>	<b>99.34</b>	<b>99.28</b>	<b>98.23</b>	<b>98.17</b>	<b>97.12</b>	<b>97.06</b>	<b>96.01</b>	<b>95.95</b>	<b>94.90</b>	<b>94.84</b>	<b>93.79</b>	<b>93.73</b>	<b>92.68</b>	<b>92.62</b>	<b>91.57</b>	<b>91.51</b>	<b>90.46</b>	<b>90.40</b>

Year	GHG Emissions with TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	123.95571	122.1558648	120.5367227	118.7338769	116.8510361	114.9681953	113.0853545	111.2025137	109.3196729	107.4368321	105.5539913	103.6711505	101.7883097	99.9054689	98.0226281	96.1397873	94.2569465	92.3741057	90.4912649	88.6084241	86.7255833	84.8427425	82.9599017	81.0770609	79.1942201	77.3113793	75.4285385
<b>Total</b>	<b>241.11</b>	<b>237.54</b>	<b>235.20</b>	<b>232.86</b>	<b>230.52</b>	<b>228.18</b>	<b>225.84</b>	<b>223.50</b>	<b>221.17</b>	<b>218.83</b>	<b>216.49</b>	<b>214.15</b>	<b>211.81</b>	<b>209.47</b>	<b>207.13</b>	<b>204.79</b>	<b>202.45</b>	<b>200.11</b>	<b>197.77</b>	<b>195.43</b>	<b>193.09</b>	<b>190.75</b>	<b>188.41</b>	<b>186.07</b>	<b>183.73</b>	<b>181.39</b>	<b>179.05</b>

Conversion Factors	
gram	MT
	1000000

Assumptions	miles	Assumptions
Attendees Trip Lengths (mi)	6.0	Commercial-Nonwork CalEEMod Defaults
Employee Trip Lengths (mi)	1.47	Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	Commercial-Customer CalEEMod Defaults

	GHG Emissions with TDM Measures																										
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	1,555.14	1,532.11	1,517,025.887	1,501,939.966	1,486,854.044	1,471,768.122	1,456,682	1,441,596.21	1,426,510.28	1,411,424.35	1,396,338.42	1,381,252.49	1,366,166.56	1,351,080.63	1,335,994.70	1,320,908.77	1,305,822.84	1,290,736.91	1,275,650.98	1,260,565.05	1,245,479.12	1,230,393.19	1,215,307.26	1,200,221.33	1,185,135.40	1,170,049.47	1,154,963.54
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.001551	0.001532	0.001517	0.001502	0.001487	0.001472	0.001457	0.001442	0.001427	0.001412	0.001397	0.001382	0.001367	0.001352	0.001337	0.001322	0.001307	0.001292	0.001277	0.001262	0.001247	0.001232	0.001217	0.001202	0.001187	0.001172	0.001157



Mobile Sources - Delivery Trips

Trip Type	Daily Delivery Trips	Total Vehicle Trips per Year	Trip Length	Total VMT	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Delivery Trips	50	25,987	6.9	179,307.43	132.96	131.19	130.02	128.85	127.68	126.51	125.35	124.78	124.21	123.65	123.08	122.51	122.49	122.47	122.45

Notes:

Daily delivery trips assumes 5 days per week for 52 weeks per year  
 CalEEMod Default Trip Length for Commercial-Nonwork trips in Los Angeles County  
 Delivery trips associated with the main event center are assumed to be 8 per day.  
 Delivery trips for all other ancillary land uses based NCHRP Synthesis 298: 2001

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
122.43	122.41	122.61	122.82	123.02	123.22	123.43	123.81	124.20	124.58	124.97	125.36	125.36	125.36	125.36	125.36

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
EMFAC2014 CO <sub>2</sub> Emission Factors (gram per mile)	741.4965416	731.6247535	725.1112381	718.5977	712.0842	705.5707	699.0572	695.8966	692.736	689.5755	686.4149	683.2543	683.1398648	683.0254	682.9109
EMFAC2014 CO <sub>2</sub> Emission Factors (MT per mile)	0.000741497	0.000731625	0.000725111	0.000719	0.000712	0.000706	0.000699	0.000696	0.000693	0.00069	0.000686	0.000683	0.00068314	0.000683	0.000683

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
682.7964676	682.6820018	683.8153	684.9487	686.082	687.2153	688.3487	690.5012	692.6538	694.8063	696.9589	699.1114719	699.1115	699.1115	699.1115	699.1115
0.000682796	0.000682682	0.000684	0.000685	0.000686	0.000687	0.000688	0.000691	0.000693	0.000695	0.000697	0.0006991111	0.000699	0.000699	0.000699	0.000699

Conversion Factors	
gram	MT
1000000	1

Delivery Trips Assumptions				
Land Use	Truck Trip Rate per 1,000 SF	Land Use (SF)	1000 SF	Trips
Fast Food	0.77	9,000.00	9.00	6.93
Hotel	0.034	217,800.00	217.80	7.41
Quality Restaurant	1.209	15,000.00	15.00	18.14
Retail	0.396	24,000.00	24.00	9.50

Source: NCHRP 2001

Mobile Source Emissions  
 Exhibit 47: HBA Check Pilgrims with Medium Concert

Existing (Average Event Attendance)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	2.97	0	0	0	0	0.00
Arena (attendees)	25,927	0	0	0	0	0.936
<b>Total</b>	<b>29,498</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>08,826</b>

Conversion Factors	
gram	1/1000000
BTU	1

Assumptions	Assumptions
Attended Trip Length (mi)	37.80 miles to 400 core data to Shreve
Distance to Trip Length (mi)	14.7 miles to 400 core data to Shreve
Event Date	01/01/2004 to 12/31/2050

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
BW-AC2004 CO <sub>2</sub> Emission Factors (g/mi)	263.9535	272.597349	262.8841774	254.340579	246.805814	240.1144113	234.1765	229.4482623	224.8132	220.75942	217.25031	214.23204	211.66305	209.52259	207.75117	206.29576	205.10785	204.16262	203.40212	202.79459	202.32186	201.91595	201.56992	201.28474	201.04405	200.84165	200.67161	200.52973																			
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	0.052284	0.050372295	0.048326264	0.046254361	0.044166683	0.042061214	0.0400284	0.038022448	0.036026746	0.034022265	0.03201873	0.03001643	0.02801517	0.02601405	0.02401305	0.02201215	0.02001134	0.01801062	0.01601001	0.01400949	0.01200906	0.01000872	0.00800847	0.00600831	0.00400824	0.00200826	0.00100836																				

Event Dates: 01/01/2004 to 12/31/2050																																																					
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050							
26.08644338	24.028192	23.228208	22.4702271	21.654639	21.2128383	20.388706	20.279792	19.481371	19.544313	18.193413	18.930038	18.695793	18.510693	18.345393	18.19261	18.05077	18.03751	17.99977	17.91029	17.87873	17.88807	17.81073	17.78844	17.77034	17.77824	17.74249	345.6776789	331.85342	300.02836	308.8763	300.45439	292.30305	285.07933	279.3245	273.88376	268.7302	264.47489	261.8015	257.67313	255.02937	252.91089	251.1391	249.693	248.5413	247.6165	246.8769	246.2004	245.6022	245.4223	245.1151	244.8698	244.6594	244.482
578.75	332.94	148.22	332.38	322.26	313.34	309.77	299.59	298.54	288.38	288.87	279.73	276.37	273.58	271.27	269.38	267.81	266.58	265.59	264.79	264.18	263.85	263.23	262.90	262.44	262.41	262.22	378.75	352.94	300.02836	308.8763	300.45439	292.30305	285.07933	279.3245	273.88376	268.7302	264.47489	261.8015	257.67313	255.02937	252.91089	251.1391	249.693	248.5413	247.6165	246.8769	246.2004	245.6022	245.4223	245.1151	244.8698	244.6594	244.482

**Mobile Source Emissions - Existing**

Arena rows include trips associated with Existing LA Clippers NBA Games only.

Existing (Average Event Attendees)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	47,042	0	19,958	0	67,000
Arena (attendees)	Varies	519,146	0	219,540	0	738,686
LA Clippers Organization Office	275 EMP	23,999	17,052	0	0	41,051
LA Clippers Team Practice & Training Facility	54 EMP	16,416	8,532	0	0	24,948
	<b>Total</b>	<b>606,603</b>	<b>25,584</b>	<b>239,498</b>	<b>0</b>	<b>871,685</b>

Existing NBA Games GHG EMISSIONS	
2018	
	345.2639253
	5018.485886
	211.5437223
	128.5618568
	5,703.86

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial Customer Calc Mod Defaults

LA Clippers Home Game Attendance at Staples Center		
	Annual Occurrence <sup>a</sup>	Average Attendance
Preseason Games	3	12,700 <sup>b</sup>
Regular Season Games	41	18,736 <sup>c</sup>
Postseason Games	3	19,355 <sup>d</sup>

<sup>a</sup> Annual occurrence based on historical number of preseason and regular season LA Clippers home games hosted at Staples Center and average number of postseason home games per year for all NBA teams since implementation of current NBA postseason format.

<sup>b</sup> Preseason attendance estimated at two-thirds basketball game capacity at Staples Center

<sup>c</sup> Average reported attendance during 5-year period, 2013-14 to 2017-18 NBA seasons. Source: <http://www.espn.com/nba/attendance/>

<sup>d</sup> Average reported attendance for all LA Clippers home postseason games during 5-year period, 2013-14 to 2017-18 NBA seasons. Source: [https://www.basketball-reference.com/play-index/tgl\\_finder](https://www.basketball-reference.com/play-index/tgl_finder)

	2018
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	350.5573411
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.000350557

Mobile Source Emissions - Existing

Arena rows include trips associated with existing market-shifted events only

Existing (Average Event Attendees)						
Land Use	Size	Estimated Annual Trips				Total
		Weekday		Weekend		
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	16,506	0	15,262	0	31,768
Arena (attendees)	Varies	192,586	0	170,436	0	363,022
LA Clippers Organization Office	275 EMP	23,999	17,052	0	0	41,051
LA Clippers Team Practice & Training Facility	54 EMP	16,416	8,532	0	0	24,948
<b>Total</b>		<b>249,507</b>	<b>25,584</b>	<b>185,698</b>	<b>0</b>	<b>460,789</b>

Existing Market Shifted GHG EMISSIONS
<b>2018</b>
163.7066325
2466.299325
211.5437223
128.5618568
<b>2,970.11</b>

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer; CalEEMod Defaults

Los Angeles Regional Market Indoor Arena Venues				
	Staples Center <sup>a</sup>	Honda Center <sup>b</sup>	The Forum <sup>a</sup>	Average
Concerts	12,857	8,843	11,462	11,054
Family Shows	5,110	3534	4,703	4,449
Other Sporting or Entertainment Events	12,370	8,920	5,750	9,007

<sup>a</sup> Average reported attendance for event type, 2016-2018 Source: <https://www.pollstar.com/research>

<sup>b</sup> Average reported attendance for event type, 2016-2017 Source: <https://www.pollstar.com/research>

	2018
EMFAC2014 CO <sub>2</sub> Emission Factors (g/mi)	350.5573411
EMFAC2014 CO <sub>2</sub> Emission Factors (MT/mi)	0.000350557

## CaEEMod Outputs

## **Project Operations Outputs**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	508.33	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	508.33
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	5,672.2471	5,672.2471	0.0209	0.0200	5,678.7309
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	80.3684	87.5376	0.7364	0.0174	111.1276
Total	5.9855	1.6179	1.2657	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	5,816.5796	6,310.8743	29.5549	0.0374	7,060.8886

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	5,259.1863	5,259.1863	0.0194	0.0185	5,265.1925
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	46.1651	50.3949	0.4345	0.0103	64.3130
<b>Total</b>	<b>5.9774</b>	<b>1.5441</b>	<b>1.2037</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>5,369.3155</b>	<b>5,860.6709</b>	<b>29.2514</b>	<b>0.0288</b>	<b>6,600.5356</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.69	7.13	1.03	23.00	6.52

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	4,248.4659	4,248.4659	0.0000	0.0000	4,248.4659
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,581.1496	4,581.1496	0.0000	0.0000	4,581.1496
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	3,556.2343	0.0000	0.0000	3,556.2343
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	453.9811	0.0000	0.0000	453.9811
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	429.1019	0.0000	0.0000	429.1019
Unenclosed Parking Structure	239750	55.2803	0.0000	0.0000	55.2803
Unenclosed Parking Structure	375375	86.5519	0.0000	0.0000	86.5519
<b>Total</b>		<b>4,581.1496</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,581.1496</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	3,468.3907	0.0000	0.0000	3,468.3907
Fast Food Restaurant w/o Drive Thru	-83461.5	-19.2441	0.0000	0.0000	-19.2441
General Office Building	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Government (Civic Center)	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Health Club	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Hotel	1.82512e+006	420.8263	0.0000	0.0000	420.8263
Medical Office Building	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Other Non-Asphalt Surfaces	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Quality Restaurant	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Strip Mall	-83461.5	-19.2441	0.0000	0.0000	-19.2441
Unenclosed Parking Structure	1.77755e+006	409.8578	0.0000	0.0000	409.8578
Unenclosed Parking Structure	156288	36.0362	0.0000	0.0000	36.0362
Unenclosed Parking Structure	291913	67.3078	0.0000	0.0000	67.3078
<b>Total</b>		<b>4,248.4659</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,248.4659</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Unmitigated	5.7377	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7600e-003	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0732</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7600e-003	6.6000e-004	0.0732	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0732</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

7.0 Water Detail

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	50.3949	0.4345	0.0103	64.3130
Unmitigated	87.5376	0.7364	0.0174	111.1276

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	37.8291	0.2484	5.8700e-003	45.7872
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	9.4843	0.0931	2.2000e-003	12.4669
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	22.7184	0.2230	5.2700e-003	29.8627
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	8.7238	0.0856	2.0200e-003	11.4672
Strip Mall	2.6455 / 0	8.7819	0.0862	2.0400e-003	11.5436
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>87.5376</b>	<b>0.7364</b>	<b>0.0174</b>	<b>111.1276</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	21.0669	0.1466	3.4600e-003	25.7622
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	5.5958	0.0549	1.3000e-003	7.3555
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	13.4039	0.1316	3.1100e-003	17.6190
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	5.1471	0.0505	1.1900e-003	6.7657
Strip Mall	1.56085 / 0	5.1813	0.0509	1.2000e-003	6.8107
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>50.3949</b>	<b>0.4344</b>	<b>0.0103</b>	<b>64.3130</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	499.69	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	499.69
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	5,594.3821	5,594.3821	0.0209	0.0200	5,600.8659
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	79.0023	86.1716	0.7364	0.0174	109.7616
Total	5.9854	1.6179	1.2657	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	5,737.3485	6,231.6433	29.5549	0.0374	6,981.6575

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	5,186.9759	5,186.9759	0.0194	0.0185	5,192.9821
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	45.3804	49.6103	0.4345	0.0103	63.5284
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2036</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>5,296.3204</b>	<b>5,787.6758</b>	<b>29.2514</b>	<b>0.0288</b>	<b>6,527.5404</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.69	7.12	1.03	23.00	6.50

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	4,176.2554	4,176.2554	0.0000	0.0000	4,176.2554
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,503.2846	4,503.2846	0.0000	0.0000	4,503.2846
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	3,495.7896	0.0000	0.0000	3,495.7896
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	446.2649	0.0000	0.0000	446.2649
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	421.8086	0.0000	0.0000	421.8086
Unenclosed Parking Structure	239750	54.3407	0.0000	0.0000	54.3407
Unenclosed Parking Structure	375375	85.0808	0.0000	0.0000	85.0808
<b>Total</b>		<b>4,503.2846</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,503.2846</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	3,409.4390	0.0000	0.0000	3,409.4390
Fast Food Restaurant w/o Drive Thru	-83461.5	-18.9170	0.0000	0.0000	-18.9170
General Office Building	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Government (Civic Center)	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Health Club	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Hotel	1.82512e+006	413.6736	0.0000	0.0000	413.6736
Medical Office Building	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Other Non-Asphalt Surfaces	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Quality Restaurant	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Strip Mall	-83461.5	-18.9170	0.0000	0.0000	-18.9170
Unenclosed Parking Structure	1.77755e+006	402.8916	0.0000	0.0000	402.8916
Unenclosed Parking Structure	156288	35.4237	0.0000	0.0000	35.4237
Unenclosed Parking Structure	291913	66.1638	0.0000	0.0000	66.1638
<b>Total</b>		<b>4,176.2554</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,176.2554</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
Unmitigated	5.7377	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7300e-003	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0731</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7300e-003	6.6000e-004	0.0731	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1518
<b>Total</b>	<b>5.7377</b>	<b>6.6000e-004</b>	<b>0.0731</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1518</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.6103	0.4345	0.0103	63.5284
Unmitigated	86.1716	0.7364	0.0174	109.7616

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	37.2272	0.2484	5.8700e-003	45.1853
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	9.3385	0.0931	2.2000e-003	12.3211
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	22.3692	0.2230	5.2700e-003	29.5135
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	8.5897	0.0856	2.0200e-003	11.3331
Strip Mall	2.6455 / 0	8.6469	0.0862	2.0400e-003	11.4086
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>86.1716</b>	<b>0.7364</b>	<b>0.0174</b>	<b>109.7616</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	20.7331	0.1466	3.4600e-003	25.4284
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	5.5097	0.0549	1.3000e-003	7.2694
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	13.1978	0.1316	3.1100e-003	17.4130
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	5.0679	0.0505	1.1900e-003	6.6865
Strip Mall	1.56085 / 0	5.1017	0.0509	1.2000e-003	6.7311
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>49.6103</b>	<b>0.4344</b>	<b>0.0103</b>	<b>63.5284</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	457.5	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	457.5
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	5,214.1592	5,214.1592	0.0209	0.0200	5,220.6430
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6800e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	72.3320	79.5012	0.7364	0.0174	103.0912
Total	5.9854	1.6179	1.2655	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	5,350.4553	5,844.7501	29.5549	0.0374	6,594.7642

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	4,834.3648	4,834.3648	0.0194	0.0185	4,840.3710
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	41.5488	45.7787	0.4345	0.0103	59.6968
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2035</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>4,939.8778</b>	<b>5,431.2332</b>	<b>29.2514</b>	<b>0.0288</b>	<b>6,171.0977</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.67	7.08	1.03	23.00	6.42

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	3,823.6444	3,823.6444	0.0000	0.0000	3,823.6444
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	4,123.0617	4,123.0617	0.0000	0.0000	4,123.0617
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	1.54234e+007	3,200.6319	0.0000	0.0000	3,200.6319
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	408.5857	0.0000	0.0000	408.5857
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	386.1943	0.0000	0.0000	386.1943
Unenclosed Parking Structure	239750	49.7526	0.0000	0.0000	49.7526
Unenclosed Parking Structure	375375	77.8973	0.0000	0.0000	77.8973
<b>Total</b>		<b>4,123.0617</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,123.0617</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	3,121.5721	0.0000	0.0000	3,121.5721
Fast Food Restaurant w/o Drive Thru	-83461.5	-17.3198	0.0000	0.0000	-17.3198
General Office Building	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Government (Civic Center)	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Health Club	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Hotel	1.82512e+006	378.7462	0.0000	0.0000	378.7462
Medical Office Building	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Other Non-Asphalt Surfaces	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Quality Restaurant	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Strip Mall	-83461.5	-17.3198	0.0000	0.0000	-17.3198
Unenclosed Parking Structure	1.77755e+006	368.8745	0.0000	0.0000	368.8745
Unenclosed Parking Structure	156288	32.4328	0.0000	0.0000	32.4328
Unenclosed Parking Structure	291913	60.5775	0.0000	0.0000	60.5775
<b>Total</b>		<b>3,823.6444</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,823.6444</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.6000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.6000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	45.7787	0.4345	0.0103	59.6968
Unmitigated	79.5012	0.7364	0.0174	103.0912

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	34.2882	0.2484	5.8700e-003	42.2464
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	8.6266	0.0931	2.2000e-003	11.6091
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	20.6638	0.2230	5.2700e-003	27.8081
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	7.9349	0.0856	2.0200e-003	10.6783
Strip Mall	2.6455 / 0	7.9877	0.0862	2.0400e-003	10.7494
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>79.5012</b>	<b>0.7364</b>	<b>0.0174</b>	<b>103.0912</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	19.1030	0.1466	3.4600e-003	23.7983
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	5.0897	0.0549	1.3000e-003	6.8494
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	12.1917	0.1316	3.1100e-003	16.4068
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	4.6816	0.0505	1.1900e-003	6.3002
Strip Mall	1.56085 / 0	4.7127	0.0509	1.2000e-003	6.3421
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>45.7787</b>	<b>0.4344</b>	<b>0.0103</b>	<b>59.6968</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

### IBEC Operations - Maximum Attendees Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	305	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	305
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	3,839.8053	3,839.8053	0.0209	0.0200	3,846.2891
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	48.2213	55.3906	0.7364	0.0174	78.9806
Total	5.9854	1.6179	1.2654	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	3,951.9907	4,446.2855	29.5549	0.0374	5,196.2996

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	3,559.8167	3,559.8167	0.0194	0.0185	3,565.8229
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	27.6992	31.9291	0.4345	0.0103	45.8472
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2034</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>3,651.4800</b>	<b>4,142.8354</b>	<b>29.2514</b>	<b>0.0288</b>	<b>4,882.7000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.60	6.82	1.03	23.00	6.04

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,549.0962	2,549.0962	0.0000	0.0000	2,549.0962
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,748.7078	2,748.7078	0.0000	0.0000	2,748.7078
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.54234e+007	2,133.7546	0.0000	0.0000	2,133.7546
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	272.3905	0.0000	0.0000	272.3905
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	257.4629	0.0000	0.0000	257.4629
Unenclosed Parking Structure	239750	33.1684	0.0000	0.0000	33.1684
Unenclosed Parking Structure	375375	51.9315	0.0000	0.0000	51.9315
<b>Total</b>		<b>2,748.7078</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2,748.7078</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	2,081.0480	0.0000	0.0000	2,081.0480
Fast Food Restaurant w/o Drive Thru	-83461.5	-11.5465	0.0000	0.0000	-11.5465
General Office Building	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Government (Civic Center)	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Health Club	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Hotel	1.82512e+006	252.4974	0.0000	0.0000	252.4974
Medical Office Building	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Other Non-Asphalt Surfaces	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Quality Restaurant	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Strip Mall	-83461.5	-11.5465	0.0000	0.0000	-11.5465
Unenclosed Parking Structure	1.77755e+006	245.9163	0.0000	0.0000	245.9163
Unenclosed Parking Structure	156288	21.6218	0.0000	0.0000	21.6218
Unenclosed Parking Structure	291913	40.3850	0.0000	0.0000	40.3850
<b>Total</b>		<b>2,549.0963</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2,549.0963</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0729</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.9291	0.4345	0.0103	45.8472
Unmitigated	55.3906	0.7364	0.0174	78.9806

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	23.6650	0.2484	5.8700e-003	31.6231
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	6.0532	0.0931	2.2000e-003	9.0358
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	14.4996	0.2230	5.2700e-003	21.6439
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	5.5678	0.0856	2.0200e-003	8.3112
Strip Mall	2.6455 / 0	5.6049	0.0862	2.0400e-003	8.3666
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>55.3906</b>	<b>0.7364</b>	<b>0.0174</b>	<b>78.9806</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	13.2110	0.1466	3.4600e-003	17.9063
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	3.5714	0.0549	1.3000e-003	5.3311
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	8.5548	0.1316	3.1100e-003	12.7699
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	3.2850	0.0505	1.1900e-003	4.9036
Strip Mall	1.56085 / 0	3.3069	0.0509	1.2000e-003	4.9363
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>31.9291</b>	<b>0.4344</b>	<b>0.0103</b>	<b>45.8472</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	152.5	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	152.5
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00





IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	2,465.4514	2,465.4514	0.0209	0.0200	2,471.9352
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6800e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	24.1107	31.2799	0.7364	0.0174	54.8699
Total	5.9854	1.6179	1.2654	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	2,553.5262	3,047.8210	29.5549	0.0374	3,797.8351

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	2,285.2686	2,285.2686	0.0194	0.0185	2,291.2748
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	13.8496	18.0795	0.4345	0.0103	31.9976
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2034</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>2,363.0823</b>	<b>2,854.4377</b>	<b>29.2514</b>	<b>0.0288</b>	<b>3,594.3022</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	7.46	6.34	1.03	23.00	5.36

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction







IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	1,274.5481	1,274.5481	0.0000	0.0000	1,274.5481
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	1,374.3539	1,374.3539	0.0000	0.0000	1,374.3539
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.54234e+007	1,066.8773	0.0000	0.0000	1,066.8773
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	136.1952	0.0000	0.0000	136.1952
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	128.7314	0.0000	0.0000	128.7314
Unenclosed Parking Structure	239750	16.5842	0.0000	0.0000	16.5842
Unenclosed Parking Structure	375375	25.9658	0.0000	0.0000	25.9658
<b>Total</b>		<b>1,374.3539</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,374.3539</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	1,040.5240	0.0000	0.0000	1,040.5240
Fast Food Restaurant w/o Drive Thru	-83461.5	-5.7733	0.0000	0.0000	-5.7733
General Office Building	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Government (Civic Center)	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Health Club	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Hotel	1.82512e+006	126.2487	0.0000	0.0000	126.2487
Medical Office Building	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Other Non-Asphalt Surfaces	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Quality Restaurant	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Strip Mall	-83461.5	-5.7733	0.0000	0.0000	-5.7733
Unenclosed Parking Structure	1.77755e+006	122.9582	0.0000	0.0000	122.9582
Unenclosed Parking Structure	156288	10.8109	0.0000	0.0000	10.8109
Unenclosed Parking Structure	291913	20.1925	0.0000	0.0000	20.1925
<b>Total</b>		<b>1,274.5481</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,274.5481</b>



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.0795	0.4345	0.0103	31.9976
Unmitigated	31.2799	0.7364	0.0174	54.8699

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	13.0418	0.2484	5.8700e-003	20.9999
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	3.4798	0.0931	2.2000e-003	6.4624
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	8.3354	0.2230	5.2700e-003	15.4797
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	3.2008	0.0856	2.0200e-003	5.9442
Strip Mall	2.6455 / 0	3.2221	0.0862	2.0400e-003	5.9838
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>31.2799</b>	<b>0.7364</b>	<b>0.0174</b>	<b>54.8699</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	7.3190	0.1466	3.4600e-003	12.0143
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	2.0531	0.0549	1.3000e-003	3.8128
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	4.9179	0.1316	3.1100e-003	9.1330
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	1.8885	0.0505	1.1900e-003	3.5071
Strip Mall	1.56085 / 0	1.9010	0.0509	1.2000e-003	3.5304
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.0795</b>	<b>0.4344</b>	<b>0.0103</b>	<b>31.9976</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2045
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96
tblEnergyUse	LightingElect	7.66	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00
tblWater	OutdoorWaterUseRate	290,617.38	0.00





IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1103	1.0023	0.8419	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6800e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	7.1692	0.0000	7.1692	0.7364	0.0174	30.7593
Total	5.9854	1.6179	1.2654	6.6800e-003	0.0000	0.0967	0.0967	0.0000	0.0967	0.0967	494.2948	1,155.0616	1,649.3564	29.5549	0.0374	2,399.3705

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Energy	0.1021	0.9284	0.7799	5.5700e-003		0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	4.2299	0.0000	4.2299	0.4345	0.0103	18.1480
<b>Total</b>	<b>5.9773</b>	<b>1.5441</b>	<b>1.2034</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>0.0000</b>	<b>0.0911</b>	<b>0.0911</b>	<b>491.3554</b>	<b>1,074.6846</b>	<b>1,566.0400</b>	<b>29.2514</b>	<b>0.0288</b>	<b>2,305.9045</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	4.56	4.90	6.59	0.00	5.80	5.80	0.00	5.80	5.80	0.59	6.96	5.05	1.03	23.00	3.90

3.0 Construction Detail

Construction Phase

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/4/2019	7/4/2019	5	1	
2	Architectural Coating	Architectural Coating	7/29/2021	7/29/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		



## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
NaturalGas Mitigated	0.1021	0.9284	0.7799	5.5700e-003			0.0706	0.0706		0.0706	0.0706	0.0000	1,010.7205	1,010.7205	0.0194	0.0185	1,016.7267
NaturalGas Unmitigated	0.1103	1.0023	0.8419	6.0100e-003			0.0762	0.0762		0.0762	0.0762	0.0000	1,091.0975	1,091.0975	0.0209	0.0200	1,097.5814

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.29867e+007	0.0700	0.6366	0.5348	3.8200e-003		0.0484	0.0484		0.0484	0.0484	0.0000	693.0222	693.0222	0.0133	0.0127	697.1405
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1103</b>	<b>1.0023</b>	<b>0.8419</b>	<b>6.0100e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0762</b>	<b>0.0762</b>	<b>0.0000</b>	<b>1,091.0975</b>	<b>1,091.0975</b>	<b>0.0209</b>	<b>0.0200</b>	<b>1,097.5813</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.21143e+007	0.0653	0.5938	0.4988	3.5600e-003		0.0451	0.0451		0.0451	0.0451	0.0000	646.4670	646.4670	0.0124	0.0119	650.3086
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1021</b>	<b>0.9284</b>	<b>0.7799</b>	<b>5.5700e-003</b>		<b>0.0706</b>	<b>0.0706</b>		<b>0.0706</b>	<b>0.0706</b>	<b>0.0000</b>	<b>1,010.7205</b>	<b>1,010.7205</b>	<b>0.0194</b>	<b>0.0185</b>	<b>1,016.7267</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Arena	1.54234e+007	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.86101e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	239750	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	375375	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.50424e+007	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	-83461.5	0.0000	0.0000	0.0000	0.0000
General Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	-83461.5	0.0000	0.0000	0.0000	0.0000
Health Club	-83461.5	0.0000	0.0000	0.0000	0.0000
Hotel	1.82512e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	-83461.5	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	-83461.5	0.0000	0.0000	0.0000	0.0000
Strip Mall	-83461.5	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.77755e+006	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	156288	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	291913	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
Unmitigated	5.7376	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517



IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6600e-003	6.5000e-004	0.0728	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	0.1425	0.1425	3.7000e-004	0.0000	0.1517
<b>Total</b>	<b>5.7376</b>	<b>6.5000e-004</b>	<b>0.0728</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.1425</b>	<b>0.1425</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1517</b>

7.0 Water Detail

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.2299	0.4345	0.0103	18.1480
Unmitigated	7.1692	0.7364	0.0174	30.7593

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.6234 / 4.88847	2.4186	0.2484	5.8700e-003	10.3767
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.8571 / 0	0.9064	0.0931	2.2000e-003	3.8890
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.8438 / 0	2.1712	0.2230	5.2700e-003	9.3155
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.628 / 0	0.8337	0.0856	2.0200e-003	3.5771
Strip Mall	2.6455 / 0	0.8393	0.0862	2.0400e-003	3.6010
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.1692</b>	<b>0.7364</b>	<b>0.0174</b>	<b>30.7593</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	4.49781 / 2.39535	1.4270	0.1466	3.4600e-003	6.1222
Fast Food Restaurant w/o Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.68569 / 0	0.5348	0.0549	1.3000e-003	2.2945
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	4.03784 / 0	1.2810	0.1316	3.1100e-003	5.4962
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.55052 / 0	0.4919	0.0505	1.1900e-003	2.1105
Strip Mall	1.56085 / 0	0.4952	0.0509	1.2000e-003	2.1246
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2299</b>	<b>0.4344</b>	<b>0.0103</b>	<b>18.1480</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>487.1255</b>	<b>28.7883</b>	<b>0.0000</b>	<b>1,206.8329</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
<b>Total</b>	<b>0.1375</b>	<b>0.6150</b>	<b>0.3507</b>	<b>6.6000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0202</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.8216</b>	<b>63.8216</b>	<b>8.9500e-003</b>	<b>0.0000</b>	<b>64.0453</b>

**11.0 Vegetation**



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	476.2	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	16.8753	18.7788	0.1955	4.6200e-003	25.0422
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>16.8753</b>	<b>18.7788</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>25.0423</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	13.5002	15.0230	0.1564	3.6900e-003	20.0338
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>13.5002</b>	<b>15.0231</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>20.0338</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water

Apply Water Conservation Strategy



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	15.0230	0.1564	3.6900e-003	20.0338
Unmitigated	18.7788	0.1955	4.6200e-003	25.0422

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	18.7788	0.1955	4.6200e-003	25.0422
<b>Total</b>		<b>18.7788</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>25.0422</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	15.0230	0.1564	3.6900e-003	20.0338
<b>Total</b>		<b>15.0230</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>20.0338</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	468.7	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	468.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	16.6095	18.5130	0.1955	4.6200e-003	24.7765
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>16.6095</b>	<b>18.5130</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>24.7765</b>



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	13.2876	14.8104	0.1564	3.6900e-003	19.8212
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>13.2876</b>	<b>14.8104</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>19.8212</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.8104	0.1564	3.6900e-003	19.8212
Unmitigated	18.5130	0.1955	4.6200e-003	24.7765

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	18.5130	0.1955	4.6200e-003	24.7765
<b>Total</b>		<b>18.5130</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>24.7765</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	14.8104	0.1564	3.6900e-003	19.8212
<b>Total</b>		<b>14.8104</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>19.8212</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	432.11	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	432.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	15.3128	17.2164	0.1955	4.6200e-003	23.4798
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>15.3129</b>	<b>17.2164</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>23.4798</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	12.2503	13.7731	0.1564	3.6900e-003	18.7838
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>12.2503</b>	<b>13.7731</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>18.7839</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.7731	0.1564	3.6900e-003	18.7838
Unmitigated	17.2164	0.1955	4.6200e-003	23.4798

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	17.2164	0.1955	4.6200e-003	23.4798
<b>Total</b>		<b>17.2164</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>23.4798</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	13.7731	0.1564	3.6900e-003	18.7838
<b>Total</b>		<b>13.7731</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>18.7838</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	288.07	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	288.07
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	10.2084	12.1120	0.1955	4.6200e-003	18.3754
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>10.2085</b>	<b>12.1120</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>18.3754</b>



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	8.1668	9.6896	0.1564	3.6900e-003	14.7003
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>8.1668</b>	<b>9.6896</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>14.7004</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.6896	0.1564	3.6900e-003	14.7003
Unmitigated	12.1120	0.1955	4.6200e-003	18.3754

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	12.1120	0.1955	4.6200e-003	18.3754
<b>Total</b>		<b>12.1120</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>18.3754</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	9.6896	0.1564	3.6900e-003	14.7003
<b>Total</b>		<b>9.6896</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>14.7003</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	144.04	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	144.04
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	5.1044	7.0079	0.1955	4.6200e-003	13.2714
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>5.1044</b>	<b>7.0079</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>13.2714</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	4.0835	5.6063	0.1564	3.6900e-003	10.6171
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>4.0835</b>	<b>5.6064</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>10.6171</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water

Apply Water Conservation Strategy



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.6063	0.1564	3.6900e-003	10.6171
Unmitigated	7.0079	0.1955	4.6200e-003	13.2714

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	7.0079	0.1955	4.6200e-003	13.2714
<b>Total</b>		<b>7.0079</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>13.2714</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	5.6063	0.1564	3.6900e-003	10.6171
<b>Total</b>		<b>5.6063</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>10.6171</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**IBEC Project Cooling Tower Water Demand**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2045
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CalEEMod operational run to only account for cooling tower water demand. CO2e intensity rate adjusted per RPS mandates.

Land Use - Operational run for cooling tower water demand only.

Construction Phase - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Off-road Equipment - CalEEMod operational run to only account for cooling tower water demand.

Trips and VMT - CalEEMod operational run to only account for cooling tower water demand.

Energy Use -

Water And Wastewater - CalEEMod operational run to only account for cooling tower water demand.

Water Mitigation - Includes a water demand reduction percentage of 20%.

## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblWater	IndoorWaterUseRate	0.00	6,000,000.00

## 2.0 Emissions Summary

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IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9035	0.0000	1.9035	0.1955	4.6200e-003	8.1670
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9035</b>	<b>2.0000e-005</b>	<b>1.9035</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>8.1670</b>



IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.5228	0.0000	1.5228	0.1564	3.6900e-003	6.5336
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5228</b>	<b>2.0000e-005</b>	<b>1.5228</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>6.5336</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	20.00	20.00	20.13	20.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/23/2019	5/22/2019	5	0	
2	Architectural Coating	Architectural Coating	5/23/2019	5/22/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850







IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5228	0.1564	3.6900e-003	6.5336
Unmitigated	1.9035	0.1955	4.6200e-003	8.1670

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	6 / 0	1.9035	0.1955	4.6200e-003	8.1670
<b>Total</b>		<b>1.9035</b>	<b>0.1955</b>	<b>4.6200e-003</b>	<b>8.1670</b>

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	4.8 / 0	1.5228	0.1564	3.6900e-003	6.5336
<b>Total</b>		<b>1.5228</b>	<b>0.1564</b>	<b>3.6900e-003</b>	<b>6.5336</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Project Cooling Tower Water Demand - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Additional Generator Run - Los Angeles-South Coast County, Annual

**Additional Generator Run**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	476.2	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Run only includes emissions with additional emergency generator.

Land Use - Operational emissions only for additional emergency generator.

Construction Phase - Operational emissions only for additional emergency generator.

Off-road Equipment - Operational emissions only for additional emergency generator.

Off-road Equipment - Operational emissions only for additional emergency generator.

Trips and VMT - Operational emissions only for additional emergency generator.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes additional 750 kW emergency generator for ancillary land uses. Assumes 50 hours per year for maintenance and testing.

## Additional Generator Run - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,207.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

## 2.0 Emissions Summary

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Additional Generator Run - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Additional Generator Run - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/30/2018	10/29/2018	5	0	
2	Architectural Coating	Architectural Coating	10/30/2018	10/29/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Additional Generator Run - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Additional Generator Run - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





Additional Generator Run - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Additional Generator Run - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water



Additional Generator Run - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Additional Generator Run - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Additional Generator Run - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Additional Generator Run - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	1207	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
<b>Total</b>	<b>0.0495</b>	<b>0.2215</b>	<b>0.1263</b>	<b>2.4000e-004</b>		<b>7.2800e-003</b>	<b>7.2800e-003</b>		<b>7.2800e-003</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>22.9811</b>	<b>22.9811</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>23.0617</b>

**11.0 Vegetation**

## Backfill Operations Outputs

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**Backfilled LA Clippers Organization Office**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	577.752	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Accounts for backfilling with general office use. LADWP adjusted CO2e intensity per RPS mandates.

Land Use - Based on existing square footage.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Trips and VMT - Operations only run.

Grading - Operations only run.

Architectural Coating - Operations only run.

Energy Use - Historical energy usage data

## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	577.752
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	92.5019	92.5019	2.5000e-004	2.4000e-004	92.5803
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	18.3437	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>	<b>0.1260</b>	<b>0.2154</b>	<b>0.6029</b>	<b>2.4000e-003</b>	<b>0.2035</b>	<b>2.7000e-003</b>	<b>0.2062</b>	<b>0.0545</b>	<b>2.5700e-003</b>	<b>0.0571</b>	<b>4.8691</b>	<b>326.4797</b>	<b>331.3488</b>	<b>0.3471</b>	<b>2.9600e-003</b>	<b>340.9085</b>

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	92.5019	92.5019	2.5000e-004	2.4000e-004	92.5803
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	18.3437	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>	<b>0.1260</b>	<b>0.2154</b>	<b>0.6029</b>	<b>2.4000e-003</b>	<b>0.2035</b>	<b>2.7000e-003</b>	<b>0.2062</b>	<b>0.0545</b>	<b>2.5700e-003</b>	<b>0.0571</b>	<b>4.8691</b>	<b>326.4797</b>	<b>331.3488</b>	<b>0.3471</b>	<b>2.9600e-003</b>	<b>340.9085</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/13/2018	1/12/2018	5	0	
2	Architectural Coating	Architectural Coating	6/14/2018	6/13/2018	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Unmitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	219.06	48.86	20.85	536,137	536,137
Total	219.06	48.86	20.85	536,137	536,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850



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**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	79.3179	79.3179	0.0000	0.0000	79.3179
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	79.3179	79.3179	0.0000	0.0000	79.3179
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	79.3179	0.0000	0.0000	79.3179
<b>Total</b>		<b>79.3179</b>	<b>0.0000</b>	<b>0.0000</b>	<b>79.3179</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	79.3179	0.0000	0.0000	79.3179
<b>Total</b>		<b>79.3179</b>	<b>0.0000</b>	<b>0.0000</b>	<b>79.3179</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.4635	0.1150	2.7200e-003	23.1483
Unmitigated	19.4635	0.1150	2.7200e-003	23.1483

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>		<b>19.4635</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>23.1483</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	19.4635	0.1150	2.7200e-003	23.1483
<b>Total</b>		<b>19.4635</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>23.1483</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

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**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	577.75	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Staples Center - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run to estimate NBA event backfill. LADWP RPS estimated for 2024 using linear interpolation.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	577.75
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	3,986.7577	3,986.7577	0.0186	0.0178	3,992.5217
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,422.8830	1,548.3401	12.8856	0.3043	1,961.1501
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>5,409.6635</b>	<b>5,775.5065</b>	<b>27.1107</b>	<b>0.3220</b>	<b>6,549.2421</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	3,986.7577	3,986.7577	0.0186	0.0178	3,992.5217
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,422.8830	1,548.3401	12.8856	0.3043	1,961.1501
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>5,409.6635</b>	<b>5,775.5065</b>	<b>27.1107</b>	<b>0.3220</b>	<b>6,549.2421</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

Staples Center - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Staples Center - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,016.7958	3,016.7958	0.0000	0.0000	3,016.7958
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,016.7958	3,016.7958	0.0000	0.0000	3,016.7958
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,016.7958	0.0000	0.0000	3,016.7958
<b>Total</b>		<b>3,016.7958</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,016.7958</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,016.7958	0.0000	0.0000	3,016.7958
<b>Total</b>		<b>3,016.7958</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,016.7958</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Unmitigated	3.7438	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0800e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0117</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0800e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0117</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Staples Center - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,548.340 1	12.8856	0.3043	1,961.150 1
Unmitigated	1,548.340 1	12.8856	0.3043	1,961.150 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,548.340 1	12.8856	0.3043	1,961.150 1
<b>Total</b>		<b>1,548.340 1</b>	<b>12.8856</b>	<b>0.3043</b>	<b>1,961.150 1</b>

Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,548.340 1	12.8856	0.3043	1,961.150 1
<b>Total</b>		<b>1,548.340 1</b>	<b>12.8856</b>	<b>0.3043</b>	<b>1,961.150 1</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Staples Center - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2045
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Staples Center - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run to estimate NBA event backfill. LADWP CO<sub>2</sub>e adjusted for RPS mandates.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.



## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	0.0000	125.4571	12.8856	0.3043	538.2671
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>969.9847</b>	<b>1,335.8277</b>	<b>27.1107</b>	<b>0.3220</b>	<b>2,109.5633</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	0.0000	125.4571	12.8856	0.3043	538.2671
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7601</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>969.9847</b>	<b>1,335.8277</b>	<b>27.1107</b>	<b>0.3220</b>	<b>2,109.5633</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

Staples Center - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Staples Center - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Unmitigated	3.7438	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0700e-003	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0700e-003	1.0000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
<b>Total</b>	<b>3.7438</b>	<b>1.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0243</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Staples Center - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	125.4571	12.8856	0.3043	538.2671
Unmitigated	125.4571	12.8856	0.3043	538.2671

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	125.4571	12.8856	0.3043	538.2671
<b>Total</b>		<b>125.4571</b>	<b>12.8856</b>	<b>0.3043</b>	<b>538.2671</b>



Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	125.4571	12.8856	0.3043	538.2671
<b>Total</b>		<b>125.4571</b>	<b>12.8856</b>	<b>0.3043</b>	<b>538.2671</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Staples Center - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

**Backfilled LA Clippers Organization Office**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2045
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Accounts for backfilling with general office use. LADWP adjusted CO2e intensity per RPS mandates.

Land Use - Based on existing square footage.

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emission only.

Architectural Coating - Operational emissions only.

Energy Use - Historical energy use.

## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	PhaseEndDate	11/14/2019	11/8/2019
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Mobile	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	0.0000	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>	<b>0.1064</b>	<b>0.1888</b>	<b>0.3289</b>	<b>1.9700e-003</b>	<b>0.2037</b>	<b>1.6500e-003</b>	<b>0.2053</b>	<b>0.0546</b>	<b>1.6000e-003</b>	<b>0.0562</b>	<b>4.8691</b>	<b>190.7754</b>	<b>195.6445</b>	<b>0.3434</b>	<b>2.9600e-003</b>	<b>205.1119</b>

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Mobile	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	0.0000	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>	<b>0.1064</b>	<b>0.1888</b>	<b>0.3289</b>	<b>1.9700e-003</b>	<b>0.2037</b>	<b>1.6500e-003</b>	<b>0.2053</b>	<b>0.0546</b>	<b>1.6000e-003</b>	<b>0.0562</b>	<b>4.8691</b>	<b>190.7754</b>	<b>195.6445</b>	<b>0.3434</b>	<b>2.9600e-003</b>	<b>205.1119</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/11/2019	6/11/2019	5	1	
2	Architectural Coating	Architectural Coating	11/8/2019	11/8/2019	5	1	



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Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559
Unmitigated	0.0241	0.1767	0.3185	1.9000e-003	0.2037	7.3000e-004	0.2044	0.0546	6.8000e-004	0.0553	0.0000	177.5909	177.5909	6.6000e-003	0.0000	177.7559

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	219.06	48.86	20.85	536,137	536,137
Total	219.06	48.86	20.85	536,137	536,137

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.534886	0.043667	0.209431	0.115969	0.013215	0.006462	0.023583	0.041458	0.002852	0.001577	0.005346	0.000740	0.000813

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5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Unmitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.2000e-004</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.2000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.1198	0.1150	2.7200e-003	4.8046
Unmitigated	1.1198	0.1150	2.7200e-003	4.8046

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>		<b>1.1198</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>4.8046</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	1.1198	0.1150	2.7200e-003	4.8046
<b>Total</b>		<b>1.1198</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>4.8046</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

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**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Backfilled LA Clippers Organization Office - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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## Baseline Emissions Outputs



LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**LA Clippers Existing Operations (Team Office Only)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	742.82	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run for team offices. LADWP CO2e adjusted per RPS mandates based on 2017 information.

Land Use - Based on existing building sf.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Grading - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy usage data used for team offices.

## LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	11/14/2019	11/7/2019
tblConstructionPhase	PhaseEndDate	6/11/2019	6/10/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	742.82
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

## 2.0 Emissions Summary

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LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	115.1636	115.1636	2.5000e-004	2.4000e-004	115.2420
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	23.5846	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>	<b>0.0823</b>	<b>0.0121</b>	<b>0.0104</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>4.8691</b>	<b>138.7487</b>	<b>143.6178</b>	<b>0.3368</b>	<b>2.9600e-003</b>	<b>152.9203</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	115.1636	115.1636	2.5000e-004	2.4000e-004	115.2420
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	23.5846	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>	<b>0.0823</b>	<b>0.0121</b>	<b>0.0104</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>4.8691</b>	<b>138.7487</b>	<b>143.6178</b>	<b>0.3368</b>	<b>2.9600e-003</b>	<b>152.9203</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/11/2019	6/10/2019	5	0	
2	Architectural Coating	Architectural Coating	11/8/2019	11/7/2019	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.9797	101.9797	0.0000	0.0000	101.9797
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.9797	101.9797	0.0000	0.0000	101.9797
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
<b>Total</b>		<b>1.3300e-003</b>	<b>0.0121</b>	<b>0.0102</b>	<b>7.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>13.1840</b>	<b>13.1840</b>	<b>2.5000e-004</b>	<b>2.4000e-004</b>	<b>13.2623</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	101.9797	0.0000	0.0000	101.9797
<b>Total</b>		<b>101.9797</b>	<b>0.0000</b>	<b>0.0000</b>	<b>101.9797</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	101.9797	0.0000	0.0000	101.9797
<b>Total</b>		<b>101.9797</b>	<b>0.0000</b>	<b>0.0000</b>	<b>101.9797</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0810	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>



LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
<b>Total</b>	<b>0.0810</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.7045	0.1150	2.7200e-003	28.3892
Unmitigated	24.7045	0.1150	2.7200e-003	28.3892

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>		<b>24.7045</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>28.3892</b>

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	24.7045	0.1150	2.7200e-003	28.3892
<b>Total</b>		<b>24.7045</b>	<b>0.1150</b>	<b>2.7200e-003</b>	<b>28.3892</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
<b>Total</b>		<b>3.7492</b>	<b>0.2216</b>	<b>0.0000</b>	<b>9.2886</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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LA Clippers Existing Operations (Team Office Only) - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**Existing On-Site Buildings Operations Base Case**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	28.81	1000sqft	1.03	28,809.00	0
Fast Food Restaurant with Drive Thru	1.12	1000sqft	0.33	1,118.00	0
Motel	38.00	Room	0.66	16,806.00	0
Strip Mall	1.13	1000sqft	0.19	1,134.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only from on-site buildings proposed to be demolished. SCE 2018 CO2e intensity factor per RPS goals based on 2017 Sustainability Report.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.

## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	23,934.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	71,801.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblLandUse	LandUseSquareFeet	28,810.00	28,809.00
tblLandUse	LandUseSquareFeet	1,120.00	1,118.00
tblLandUse	LandUseSquareFeet	74,487.60	16,806.00
tblLandUse	LandUseSquareFeet	1,130.00	1,134.00
tblLandUse	LotAcreage	0.66	1.03
tblLandUse	LotAcreage	0.03	0.33
tblLandUse	LotAcreage	1.71	0.66
tblLandUse	LotAcreage	0.03	0.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	4.00	0.00

## 2.0 Emissions Summary

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Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	211.0252	211.0252	1.5800e-003	1.5100e-003	211.5148
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	26.6003	29.1541	0.2623	6.1900e-003	37.5575
<b>Total</b>	<b>0.5528</b>	<b>1.5939</b>	<b>3.9722</b>	<b>0.0105</b>	<b>0.7206</b>	<b>0.0182</b>	<b>0.7388</b>	<b>0.1932</b>	<b>0.0174</b>	<b>0.2107</b>	<b>16.8871</b>	<b>1,160.9124</b>	<b>1,177.7995</b>	<b>1.1726</b>	<b>7.7000e-003</b>	<b>1,209.4092</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	211.0252	211.0252	1.5800e-003	1.5100e-003	211.5148
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	26.6003	29.1541	0.2623	6.1900e-003	37.5575
<b>Total</b>	<b>0.5528</b>	<b>1.5939</b>	<b>3.9722</b>	<b>0.0105</b>	<b>0.7206</b>	<b>0.0182</b>	<b>0.7388</b>	<b>0.1932</b>	<b>0.0174</b>	<b>0.2107</b>	<b>16.8871</b>	<b>1,160.9124</b>	<b>1,177.7995</b>	<b>1.1726</b>	<b>7.7000e-003</b>	<b>1,209.4092</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/8/2018	10/7/2018	5	0	
2	Architectural Coating	Architectural Coating	10/11/2018	10/10/2018	5	0	

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Unmitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	555.65	808.67	607.85	630,650	630,650
General Light Industry	200.81	38.03	19.59	671,611	671,611
Motel	213.94	213.94	213.94	508,773	508,773
Strip Mall	50.08	47.51	23.09	87,247	87,247
Total	1,020.48	1,108.15	864.46	1,898,281	1,898,281

4.3 Trip Type Information

## Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Motel	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Strip Mall	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

## 5.0 Energy Detail

Historical Energy Use: Y

## 5.1 Mitigation Measures Energy

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	128.6428	128.6428	0.0000	0.0000	128.6428
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	128.6428	128.6428	0.0000	0.0000	128.6428
Natural Gas Mitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719
Natural Gas Unmitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
<b>Total</b>		<b>8.3100e-003</b>	<b>0.0757</b>	<b>0.0636</b>	<b>4.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>82.3824</b>	<b>82.3824</b>	<b>1.5700e-003</b>	<b>1.5100e-003</b>	<b>82.8719</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
<b>Total</b>		<b>8.3100e-003</b>	<b>0.0757</b>	<b>0.0636</b>	<b>4.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>82.3824</b>	<b>82.3824</b>	<b>1.5700e-003</b>	<b>1.5100e-003</b>	<b>82.8719</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	11.2978	0.0000	0.0000	11.2978
General Light Industry	278007	69.2299	0.0000	0.0000	69.2299
Motel	177976	44.3199	0.0000	0.0000	44.3199
Strip Mall	15241	3.7953	0.0000	0.0000	3.7953
<b>Total</b>		<b>128.6428</b>	<b>0.0000</b>	<b>0.0000</b>	<b>128.6428</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	11.2978	0.0000	0.0000	11.2978
General Light Industry	278007	69.2299	0.0000	0.0000	69.2299
Motel	177976	44.3199	0.0000	0.0000	44.3199
Strip Mall	15241	3.7953	0.0000	0.0000	3.7953
<b>Total</b>		<b>128.6428</b>	<b>0.0000</b>	<b>0.0000</b>	<b>128.6428</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Unmitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.1953</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.1953</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	29.1541	0.2623	6.1900e-003	37.5575
Unmitigated	29.1541	0.2623	6.1900e-003	37.5575

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2702	0.0111	2.6000e-004	1.6251
General Light Industry	6.66231 / 0	23.7163	0.2171	5.1300e-003	30.6712
Motel	0.963937 / 0.107104	3.7277	0.0314	7.4000e-004	4.7340
Strip Mall	0.0837019 / 0.0513012	0.4399	2.7300e-003	6.0000e-005	0.5273
<b>Total</b>		<b>29.1541</b>	<b>0.2623</b>	<b>6.1900e-003</b>	<b>37.5575</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2702	0.0111	2.6000e-004	1.6251
General Light Industry	6.66231 / 0	23.7163	0.2171	5.1300e-003	30.6712
Motel	0.963937 / 0.107104	3.7277	0.0314	7.4000e-004	4.7340
Strip Mall	0.0837019 / 0.0513012	0.4399	2.7300e-003	6.0000e-005	0.5273
<b>Total</b>		<b>29.1541</b>	<b>0.2623</b>	<b>6.1900e-003</b>	<b>37.5575</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.3332	0.8471	0.0000	35.5099
Unmitigated	14.3332	0.8471	0.0000	35.5099

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
<b>Total</b>		<b>14.3332</b>	<b>0.8471</b>	<b>0.0000</b>	<b>35.5099</b>

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
<b>Total</b>		<b>14.3332</b>	<b>0.8471</b>	<b>0.0000</b>	<b>35.5099</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Equipment Type	Number
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## 11.0 Vegetation

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**Existing Onsite Buildings Operations Alternate Case Parcels**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	3.00	Dwelling Unit	0.10	1,629.00	9
Single Family Housing	1.00	Dwelling Unit	0.10	795.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only for additional parcels to be demolished under alternate case. SCE 2018 CO<sub>2</sub>e intensity factor per RPS goals based on 2017 Sustainability Report.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.

## Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,636.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	4,909.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblLandUse	LandUseSquareFeet	3,000.00	1,629.00
tblLandUse	LandUseSquareFeet	1,800.00	795.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	0.32	0.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

## 2.0 Emissions Summary

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Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.0576	8.0576	7.0000e-005	6.0000e-005	8.0787
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2996	1.3823	8.4900e-003	2.0000e-004	1.6544
<b>Total</b>	<b>0.0372</b>	<b>0.0681</b>	<b>0.2484</b>	<b>6.0000e-004</b>	<b>0.0379</b>	<b>4.9200e-003</b>	<b>0.0429</b>	<b>0.0102</b>	<b>4.8800e-003</b>	<b>0.0151</b>	<b>1.0374</b>	<b>57.0101</b>	<b>58.0474</b>	<b>0.0441</b>	<b>2.9000e-004</b>	<b>59.2376</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.0576	8.0576	7.0000e-005	6.0000e-005	8.0787
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2996	1.3823	8.4900e-003	2.0000e-004	1.6544
<b>Total</b>	<b>0.0372</b>	<b>0.0681</b>	<b>0.2484</b>	<b>6.0000e-004</b>	<b>0.0379</b>	<b>4.9200e-003</b>	<b>0.0429</b>	<b>0.0102</b>	<b>4.8800e-003</b>	<b>0.0151</b>	<b>1.0374</b>	<b>57.0101</b>	<b>58.0474</b>	<b>0.0441</b>	<b>2.9000e-004</b>	<b>59.2376</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/20/2018	10/19/2018	5	0	
2	Architectural Coating	Architectural Coating	3/21/2019	3/20/2019	5	0	

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Unmitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	19.77	21.48	18.21	67,630	67,630
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	29.29	31.39	26.83	99,913	99,913

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Single Family Housing	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5133	4.5133	0.0000	0.0000	4.5133
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5133	4.5133	0.0000	0.0000	4.5133
NaturalGas Mitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654
NaturalGas Unmitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
<b>Total</b>		<b>3.6000e-004</b>	<b>3.0600e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.5444</b>	<b>3.5444</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>3.5654</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
<b>Total</b>		<b>3.6000e-004</b>	<b>3.0600e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.5444</b>	<b>3.5444</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>3.5654</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.7192	0.0000	0.0000	2.7192
Single Family Housing	7204.5	1.7941	0.0000	0.0000	1.7941
<b>Total</b>		<b>4.5133</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.5133</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.7192	0.0000	0.0000	2.7192
Single Family Housing	7204.5	1.7941	0.0000	0.0000	1.7941
<b>Total</b>		<b>4.5133</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.5133</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Unmitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
<b>Total</b>	<b>0.0239</b>	<b>1.5200e-003</b>	<b>0.0670</b>	<b>6.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.4249</b>	<b>0.8839</b>	<b>1.3087</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3507</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
<b>Total</b>	<b>0.0239</b>	<b>1.5200e-003</b>	<b>0.0670</b>	<b>6.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.4249</b>	<b>0.8839</b>	<b>1.3087</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3507</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.3823	8.4900e-003	2.0000e-004	1.6544
Unmitigated	1.3823	8.4900e-003	2.0000e-004	1.6544

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	1.0367	6.3700e-003	1.5000e-004	1.2408
Single Family Housing	0.065154 / 0.0410754	0.3456	2.1200e-003	5.0000e-005	0.4136
<b>Total</b>		<b>1.3823</b>	<b>8.4900e-003</b>	<b>2.0000e-004</b>	<b>1.6544</b>

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	1.0367	6.3700e-003	1.5000e-004	1.2408
Single Family Housing	0.065154 / 0.0410754	0.3456	2.1200e-003	5.0000e-005	0.4136
<b>Total</b>		<b>1.3823</b>	<b>8.4900e-003</b>	<b>2.0000e-004</b>	<b>1.6544</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.5298	0.0313	0.0000	1.3126
Unmitigated	0.5298	0.0313	0.0000	1.3126



Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.5298</b>	<b>0.0313</b>	<b>0.0000</b>	<b>1.3126</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.5298</b>	<b>0.0313</b>	<b>0.0000</b>	<b>1.3126</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**The Forum Existing Emissions**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	346.00	1000sqft	111.21	346,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Project Characteristics - Existing emissions at The Forum. SCE CO<sub>2</sub>e intensity rate adjusted to 2018 per RPS mandates based on 2017 Sustainability Report.

Land Use - Based on actual square footage.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Renovated in 2014. CalEEMod defaults for energy usage.

Solid Waste - Based on 1.29 tons/1000 sq ft.

## The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	173,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	519,000.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	9.52	446.34
tblTripsAndVMT	WorkerTripNumber	29.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,113.9613	1,113.9613	7.4000e-003	7.0700e-003	1,116.2545
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	509.6066	556.8921	4.8567	0.1147	712.4828
<b>Total</b>	<b>1.4501</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>1,623.5764</b>	<b>1,761.4650</b>	<b>10.2186</b>	<b>0.1218</b>	<b>2,053.2115</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,113.9613	1,113.9613	7.4000e-003	7.0700e-003	1,116.2545
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	509.6066	556.8921	4.8567	0.1147	712.4828
<b>Total</b>	<b>1.4501</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>1,623.5764</b>	<b>1,761.4650</b>	<b>10.2186</b>	<b>0.1218</b>	<b>2,053.2115</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/6/2018	10/5/2018	5	0	
2	Architectural Coating	Architectural Coating	2/19/2033	2/18/2033	5	0	



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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







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**3.3 Architectural Coating - 2033**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	728.0662	728.0662	0.0000	0.0000	728.0662
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	728.0662	728.0662	0.0000	0.0000	728.0662
NaturalGas Mitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
NaturalGas Unmitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>



The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	728.0662	0.0000	0.0000	728.0662
<b>Total</b>		<b>728.0662</b>	<b>0.0000</b>	<b>0.0000</b>	<b>728.0662</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	728.0662	0.0000	0.0000	728.0662
<b>Total</b>		<b>728.0662</b>	<b>0.0000</b>	<b>0.0000</b>	<b>728.0662</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Unmitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
<b>Total</b>	<b>1.4111</b>	<b>4.0000e-005</b>	<b>4.4800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1800e-003</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
<b>Total</b>	<b>1.4111</b>	<b>4.0000e-005</b>	<b>4.4800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1800e-003</b>

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	556.8921	4.8567	0.1147	712.4828
Unmitigated	556.8921	4.8567	0.1147	712.4828

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	556.8921	4.8567	0.1147	712.4828
<b>Total</b>		<b>556.8921</b>	<b>4.8567</b>	<b>0.1147</b>	<b>712.4828</b>

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	556.8921	4.8567	0.1147	712.4828
<b>Total</b>		<b>556.8921</b>	<b>4.8567</b>	<b>0.1147</b>	<b>712.4828</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6030	5.3545	0.0000	224.4651
Unmitigated	90.6030	5.3545	0.0000	224.4651

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Forum Existing Emissions - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Honda Center - Orange County, Annual

**Honda Center**  
**Orange County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	650.00	1000sqft	208.93	650,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2018
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MW hr)</b>	1112.39	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**



Honda Center - Orange County, Annual

Project Characteristics - Honda Center operational emissions. CO2e rate updated based on CURB model, based on 2017 APU power content label and Electric Services information.

Land Use - Based Honda Center square footage

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emissions only.

Architectural Coating - Operational emissions only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Based on actual energy consumption provided in Honda Center Enhancement Project EIR

Solid Waste - Solid waste generation based on 1.29 ton/1000 sq ft.

## Honda Center - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	325,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	975,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.99	10.43
tblEnergyUse	NT24E	3.83	13.35
tblEnergyUse	NT24NG	6.86	6.57
tblEnergyUse	T24E	1.63	5.68
tblEnergyUse	T24NG	14.04	13.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1112.39
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	17.89	838.50
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Honda Center - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	10,358.1994	10,358.1994	0.0133	0.0128	10,362.3364
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	1,939.8002	2,028.6314	9.1238	0.2154	2,320.9261
<b>Total</b>	<b>2.7212</b>	<b>0.6396</b>	<b>0.5456</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>12,298.0157</b>	<b>12,557.0549</b>	<b>19.1962</b>	<b>0.2282</b>	<b>13,104.9626</b>

Honda Center - Orange County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	10,358.1994	10,358.1994	0.0133	0.0128	10,362.3364
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	1,939.8002	2,028.6314	9.1238	0.2154	2,320.9261
<b>Total</b>	<b>2.7212</b>	<b>0.6396</b>	<b>0.5456</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>12,298.0157</b>	<b>12,557.0549</b>	<b>19.1962</b>	<b>0.2282</b>	<b>13,104.9626</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/23/2019	2/22/2019	5	0	
2	Architectural Coating	Architectural Coating	9/15/2040	9/14/2040	5	0	

Honda Center - Orange County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**









Honda Center - Orange County, Annual

**3.3 Architectural Coating - 2040**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Honda Center - Orange County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

Honda Center - Orange County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,662.0419	9,662.0419	0.0000	0.0000	9,662.0419
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,662.0419	9,662.0419	0.0000	0.0000	9,662.0419
NaturalGas Mitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
NaturalGas Unmitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945

Honda Center - Orange County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

Honda Center - Orange County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	9,662.0419	0.0000	0.0000	9,662.0419
<b>Total</b>		<b>9,662.0419</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9,662.0419</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	9,662.0419	0.0000	0.0000	9,662.0419
<b>Total</b>		<b>9,662.0419</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9,662.0419</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Honda Center - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Unmitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6509</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>

Honda Center - Orange County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6509</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Honda Center - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,028.631 4	9.1238	0.2154	2,320.926 1
Unmitigated	2,028.631 4	9.1238	0.2154	2,320.926 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,028.631 4	9.1238	0.2154	2,320.926 1
<b>Total</b>		<b>2,028.631 4</b>	<b>9.1238</b>	<b>0.2154</b>	<b>2,320.926 1</b>

Honda Center - Orange County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,028.631 4	9.1238	0.2154	2,320.926 1
<b>Total</b>		<b>2,028.631 4</b>	<b>9.1238</b>	<b>0.2154</b>	<b>2,320.926 1</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.2079	10.0590	0.0000	421.6829
Unmitigated	170.2079	10.0590	0.0000	421.6829

Honda Center - Orange County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Honda Center - Orange County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Staples Center - Los Angeles-South Coast County, Annual

**Staples Center**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	742.82	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

**1.3 User Entered Comments & Non-Default Data**

Staples Center - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run to estimate existing emissions from NBA related events and market shifted events.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

## Staples Center - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	742.82
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Staples Center - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	4,848.6919	4,848.6919	0.0186	0.0178	4,854.4559
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,829.4175	1,954.8746	12.8856	0.3043	2,367.6846
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7603</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>6,678.1322</b>	<b>7,043.9752</b>	<b>27.1107</b>	<b>0.3220</b>	<b>7,817.7109</b>

Staples Center - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	4,848.6919	4,848.6919	0.0186	0.0178	4,854.4559
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	1,829.4175	1,954.8746	12.8856	0.3043	2,367.6846
<b>Total</b>	<b>3.8418</b>	<b>0.8911</b>	<b>0.7603</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>365.8430</b>	<b>6,678.1322</b>	<b>7,043.9752</b>	<b>27.1107</b>	<b>0.3220</b>	<b>7,817.7109</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

Staples Center - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Staples Center - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2041**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Staples Center - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944



Staples Center - Los Angeles-South Coast County, Annual

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,878.7300	3,878.7300	0.0000	0.0000	3,878.7300
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,878.7300	3,878.7300	0.0000	0.0000	3,878.7300
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

Staples Center - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
<b>Total</b>		<b>0.0980</b>	<b>0.8910</b>	<b>0.7484</b>	<b>5.3500e-003</b>		<b>0.0677</b>	<b>0.0677</b>		<b>0.0677</b>	<b>0.0677</b>	<b>0.0000</b>	<b>969.9619</b>	<b>969.9619</b>	<b>0.0186</b>	<b>0.0178</b>	<b>975.7259</b>

Staples Center - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,878.7300	0.0000	0.0000	3,878.7300
<b>Total</b>		<b>3,878.7300</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,878.7300</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	3,878.7300	0.0000	0.0000	3,878.7300
<b>Total</b>		<b>3,878.7300</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3,878.7300</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Staples Center - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Unmitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0244</b>

Staples Center - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
<b>Total</b>	<b>3.7438</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>	<b>0.0228</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0244</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Staples Center - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,954.874 6	12.8856	0.3043	2,367.684 6
Unmitigated	1,954.874 6	12.8856	0.3043	2,367.684 6

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,954.874 6	12.8856	0.3043	2,367.684 6
<b>Total</b>		<b>1,954.874 6</b>	<b>12.8856</b>	<b>0.3043</b>	<b>2,367.684 6</b>

Staples Center - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	1,954.874 6	12.8856	0.3043	2,367.684 6
<b>Total</b>		<b>1,954.874 6</b>	<b>12.8856</b>	<b>0.3043</b>	<b>2,367.684 6</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

Staples Center - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
<b>Total</b>		<b>240.3860</b>	<b>14.2064</b>	<b>0.0000</b>	<b>595.5460</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Staples Center - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Construction Outputs

IBEC Construction - Run 1 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**IBEC Construction - Run 1 (Tier 4 Final Equipment)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Construction Analysis for Operational Year 2024

Land Use - Land uses provided by the applicant.

Construction Phase - Construction phases and schedule provided by applicant.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Added project-specific construction equipment for the Building Construction phase.

Off-road Equipment - Added project-specific construction equipment for the Demolition phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Added project-specific construction equipment for the Excavation/Grading - Excavation/Retention System phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Trips and VMT - Project-specific construction trips.

Demolition - 5,175 tons of Demolition debris

Grading - 332,700 cubic yards of material exported during Excavation/Grading activities.

Vehicle Trips - Operational trip rates set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Area Coating - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Energy Use - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment required to meet Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	10.00	208.00
tblConstructionPhase	NumDays	30.00	172.00
tblConstructionPhase	NumDays	300.00	501.00
tblConstructionPhase	NumDays	20.00	459.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00

tblEnergyUse	LightingElect	3.03	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	3.24	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	2.77	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	29.10	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00



tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	512.00	4,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	HaulingTripNumber	41,588.00	51,072.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,224.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblTripsAndVMT	WorkerTripNumber	565.00	800.00
tblTripsAndVMT	WorkerTripNumber	113.00	1,200.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00



tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00



Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	5.7410	0.9445
2	10-1-2021	12-31-2021	7.7177	2.3464
3	1-1-2022	3-31-2022	9.4088	3.8419
4	4-1-2022	6-30-2022	8.7457	3.5726
5	7-1-2022	9-30-2022	4.6275	1.5122
6	10-1-2022	12-31-2022	5.0501	1.9013
7	1-1-2023	3-31-2023	5.5448	2.6606
8	4-1-2023	6-30-2023	5.5529	2.6366
9	7-1-2023	9-30-2023	5.6139	2.6656
10	10-1-2023	12-31-2023	2.2740	1.6597
11	1-1-2024	3-31-2024	1.5128	1.3999
12	4-1-2024	6-30-2024	0.9280	0.8572
		Highest	9.4088	3.8419

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/31/2021	6	53	
2	Site Preparation - Initial Site Development	Site Preparation	7/1/2021	2/28/2022	6	208	
3	Excavation/Grading - Excavation/Retention System	Grading	11/8/2021	5/26/2022	6	172	
4	Building Construction	Building Construction	3/11/2022	10/16/2023	6	501	
5	Architectural Coating	Architectural Coating	12/9/2022	5/27/2024	6	459	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,065,200; Non-Residential Outdoor: 688,400; Striped Parking**

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	14.00	81	0.73
Demolition	Crawler Tractors	1	14.00	275	0.43
Demolition	Excavators	3	14.00	158	0.38
Demolition	Excavators	1	14.00	200	0.38
Demolition	Rubber Tired Dozers	2	14.00	247	0.40
Site Preparation - Initial Site Development	Rubber Tired Dozers	3	14.00	247	0.40
Site Preparation - Initial Site Development	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Excavation/Grading - Excavation/Retention System	Bore/Drill Rigs	1	14.00	221	0.50
Excavation/Grading - Excavation/Retention System	Excavators	2	14.00	158	0.38
Excavation/Grading - Excavation/Retention System	Excavators	1	14.00	200	0.38
Excavation/Grading - Excavation/Retention System	Graders	1	14.00	187	0.41
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	247	0.40
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	215	0.40
Excavation/Grading - Excavation/Retention System	Scrapers	2	14.00	367	0.48
Excavation/Grading - Excavation/Retention System	Skid Steer Loaders	1	14.00	230	0.37
Excavation/Grading - Excavation/Retention System	Tractors/Loaders/Backhoes	2	14.00	97	0.37
Building Construction	Cranes	8	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Welders	1	14.00	46	0.45
Architectural Coating	Air Compressors	1	14.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	40.00	2.00	4,200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Initial Site	7	40.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation/Grading - Excavation/Retention	12	30.00	2.00	51,072.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	800.00	226.00	4,224.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,200.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

### 3.2 Demolition - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	8.3800e-003	0.0000	8.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1843	1.8810	1.2645	2.5800e-003		0.0877	0.0877		0.0813	0.0813	0.0000	225.9160	225.9160	0.0665	0.0000	227.5772
<b>Total</b>	<b>0.1843</b>	<b>1.8810</b>	<b>1.2645</b>	<b>2.5800e-003</b>	<b>0.0554</b>	<b>0.0877</b>	<b>0.1430</b>	<b>8.3800e-003</b>	<b>0.0813</b>	<b>0.0897</b>	<b>0.0000</b>	<b>225.9160</b>	<b>225.9160</b>	<b>0.0665</b>	<b>0.0000</b>	<b>227.5772</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
<b>Total</b>	<b>0.0224</b>	<b>0.5901</b>	<b>0.1771</b>	<b>1.7600e-003</b>	<b>0.0480</b>	<b>1.8500e-003</b>	<b>0.0499</b>	<b>0.0131</b>	<b>1.7600e-003</b>	<b>0.0149</b>	<b>0.0000</b>	<b>171.8712</b>	<b>171.8712</b>	<b>0.0115</b>	<b>0.0000</b>	<b>172.1587</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.1342	1.4291	2.5800e-003		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	225.9157	225.9157	0.0665	0.0000	227.5769
<b>Total</b>	<b>0.0310</b>	<b>0.1342</b>	<b>1.4291</b>	<b>2.5800e-003</b>	<b>0.0216</b>	<b>4.1300e-003</b>	<b>0.0257</b>	<b>3.2700e-003</b>	<b>4.1300e-003</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>225.9157</b>	<b>225.9157</b>	<b>0.0665</b>	<b>0.0000</b>	<b>227.5769</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
<b>Total</b>	<b>0.0224</b>	<b>0.5901</b>	<b>0.1771</b>	<b>1.7600e-003</b>	<b>0.0480</b>	<b>1.8500e-003</b>	<b>0.0499</b>	<b>0.0131</b>	<b>1.7600e-003</b>	<b>0.0149</b>	<b>0.0000</b>	<b>171.8712</b>	<b>171.8712</b>	<b>0.0115</b>	<b>0.0000</b>	<b>172.1587</b>

### 3.3 Site Preparation - Initial Site Development - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4977	0.0000	2.4977	1.3729	0.0000	1.3729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5375	5.5987	2.9246	5.2600e-003		0.2827	0.2827		0.2600	0.2600	0.0000	462.2488	462.2488	0.1495	0.0000	465.9863
<b>Total</b>	<b>0.5375</b>	<b>5.5987</b>	<b>2.9246</b>	<b>5.2600e-003</b>	<b>2.4977</b>	<b>0.2827</b>	<b>2.7803</b>	<b>1.3729</b>	<b>0.2600</b>	<b>1.6330</b>	<b>0.0000</b>	<b>462.2488</b>	<b>462.2488</b>	<b>0.1495</b>	<b>0.0000</b>	<b>465.9863</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
<b>Total</b>	<b>0.0137</b>	<b>0.0122</b>	<b>0.1199</b>	<b>3.5000e-004</b>	<b>0.0348</b>	<b>2.9000e-004</b>	<b>0.0350</b>	<b>9.2300e-003</b>	<b>2.6000e-004</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>31.6841</b>	<b>31.6841</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.7078</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9741	0.0000	0.9741	0.5354	0.0000	0.5354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0644	0.2789	2.8851	5.2600e-003		8.5800e-003	8.5800e-003		8.5800e-003	8.5800e-003	0.0000	462.2482	462.2482	0.1495	0.0000	465.9858
<b>Total</b>	<b>0.0644</b>	<b>0.2789</b>	<b>2.8851</b>	<b>5.2600e-003</b>	<b>0.9741</b>	<b>8.5800e-003</b>	<b>0.9827</b>	<b>0.5354</b>	<b>8.5800e-003</b>	<b>0.5440</b>	<b>0.0000</b>	<b>462.2482</b>	<b>462.2482</b>	<b>0.1495</b>	<b>0.0000</b>	<b>465.9858</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
<b>Total</b>	<b>0.0137</b>	<b>0.0122</b>	<b>0.1199</b>	<b>3.5000e-004</b>	<b>0.0348</b>	<b>2.9000e-004</b>	<b>0.0350</b>	<b>9.2300e-003</b>	<b>2.6000e-004</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>31.6841</b>	<b>31.6841</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.7078</b>

### 3.3 Site Preparation - Initial Site Development - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7904	0.0000	0.7904	0.4345	0.0000	0.4345	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1387	1.4474	0.8618	1.6600e-003		0.0706	0.0706		0.0649	0.0649	0.0000	146.2973	146.2973	0.0473	0.0000	147.4802
<b>Total</b>	<b>0.1387</b>	<b>1.4474</b>	<b>0.8618</b>	<b>1.6600e-003</b>	<b>0.7904</b>	<b>0.0706</b>	<b>0.8610</b>	<b>0.4345</b>	<b>0.0649</b>	<b>0.4994</b>	<b>0.0000</b>	<b>146.2973</b>	<b>146.2973</b>	<b>0.0473</b>	<b>0.0000</b>	<b>147.4802</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
<b>Total</b>	<b>4.0400e-003</b>	<b>3.4900e-003</b>	<b>0.0350</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.6774</b>	<b>9.6774</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.6842</b>



### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3083	0.0000	0.3083	0.1694	0.0000	0.1694	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.0883	0.9130	1.6600e-003		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	146.2972	146.2972	0.0473	0.0000	147.4801
<b>Total</b>	<b>0.0204</b>	<b>0.0883</b>	<b>0.9130</b>	<b>1.6600e-003</b>	<b>0.3083</b>	<b>2.7200e-003</b>	<b>0.3110</b>	<b>0.1694</b>	<b>2.7200e-003</b>	<b>0.1722</b>	<b>0.0000</b>	<b>146.2972</b>	<b>146.2972</b>	<b>0.0473</b>	<b>0.0000</b>	<b>147.4801</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
<b>Total</b>	<b>4.0400e-003</b>	<b>3.4900e-003</b>	<b>0.0350</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.6774</b>	<b>9.6774</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.6842</b>

### 3.4 Excavation/Grading - Excavation/Retention System - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6655	0.0000	0.6655	0.1821	0.0000	0.1821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2294	2.5193	1.5605	3.5100e-003		0.1074	0.1074		0.0988	0.0988	0.0000	308.5991	308.5991	0.0998	0.0000	311.0943
<b>Total</b>	<b>0.2294</b>	<b>2.5193</b>	<b>1.5605</b>	<b>3.5100e-003</b>	<b>0.6655</b>	<b>0.1074</b>	<b>0.7728</b>	<b>0.1821</b>	<b>0.0988</b>	<b>0.2808</b>	<b>0.0000</b>	<b>308.5991</b>	<b>308.5991</b>	<b>0.0998</b>	<b>0.0000</b>	<b>311.0943</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
<b>Total</b>	<b>0.0620</b>	<b>1.9387</b>	<b>0.4783</b>	<b>5.4900e-003</b>	<b>0.3678</b>	<b>5.8500e-003</b>	<b>0.3736</b>	<b>0.0939</b>	<b>5.6000e-003</b>	<b>0.0995</b>	<b>0.0000</b>	<b>540.0501</b>	<b>540.0501</b>	<b>0.0372</b>	<b>0.0000</b>	<b>540.9800</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2595	0.0000	0.2595	0.0710	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.1871	1.7919	3.5100e-003		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	308.5988	308.5988	0.0998	0.0000	311.0939
<b>Total</b>	<b>0.0432</b>	<b>0.1871</b>	<b>1.7919</b>	<b>3.5100e-003</b>	<b>0.2595</b>	<b>5.7600e-003</b>	<b>0.2653</b>	<b>0.0710</b>	<b>5.7600e-003</b>	<b>0.0768</b>	<b>0.0000</b>	<b>308.5988</b>	<b>308.5988</b>	<b>0.0998</b>	<b>0.0000</b>	<b>311.0939</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
<b>Total</b>	<b>0.0620</b>	<b>1.9387</b>	<b>0.4783</b>	<b>5.4900e-003</b>	<b>0.3678</b>	<b>5.8500e-003</b>	<b>0.3736</b>	<b>0.0939</b>	<b>5.6000e-003</b>	<b>0.0995</b>	<b>0.0000</b>	<b>540.0501</b>	<b>540.0501</b>	<b>0.0372</b>	<b>0.0000</b>	<b>540.9800</b>

### 3.4 Excavation/Grading - Excavation/Retention System - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0765	0.0000	1.0765	0.4080	0.0000	0.4080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5224	5.5368	3.9007	9.3500e-003		0.2329	0.2329		0.2143	0.2143	0.0000	821.3300	821.3300	0.2656	0.0000	827.9709
<b>Total</b>	<b>0.5224</b>	<b>5.5368</b>	<b>3.9007</b>	<b>9.3500e-003</b>	<b>1.0765</b>	<b>0.2329</b>	<b>1.3094</b>	<b>0.4080</b>	<b>0.2143</b>	<b>0.6223</b>	<b>0.0000</b>	<b>821.3300</b>	<b>821.3300</b>	<b>0.2656</b>	<b>0.0000</b>	<b>827.9709</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
<b>Total</b>	<b>0.1567</b>	<b>4.7855</b>	<b>1.2531</b>	<b>0.0144</b>	<b>0.4305</b>	<b>0.0135</b>	<b>0.4440</b>	<b>0.1154</b>	<b>0.0130</b>	<b>0.1284</b>	<b>0.0000</b>	<b>1,418.8016</b>	<b>1,418.8016</b>	<b>0.0973</b>	<b>0.0000</b>	<b>1,421.2352</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4198	0.0000	0.4198	0.1591	0.0000	0.1591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1148	0.4976	4.7657	9.3500e-003		0.0153	0.0153		0.0153	0.0153	0.0000	821.3290	821.3290	0.2656	0.0000	827.9699
<b>Total</b>	<b>0.1148</b>	<b>0.4976</b>	<b>4.7657</b>	<b>9.3500e-003</b>	<b>0.4198</b>	<b>0.0153</b>	<b>0.4351</b>	<b>0.1591</b>	<b>0.0153</b>	<b>0.1744</b>	<b>0.0000</b>	<b>821.3290</b>	<b>821.3290</b>	<b>0.2656</b>	<b>0.0000</b>	<b>827.9699</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
<b>Total</b>	<b>0.1567</b>	<b>4.7855</b>	<b>1.2531</b>	<b>0.0144</b>	<b>0.4305</b>	<b>0.0135</b>	<b>0.4440</b>	<b>0.1154</b>	<b>0.0130</b>	<b>0.1284</b>	<b>0.0000</b>	<b>1,418.8016</b>	<b>1,418.8016</b>	<b>0.0973</b>	<b>0.0000</b>	<b>1,421.2352</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9836	10.2362	6.8199	0.0154		0.4624	0.4624		0.4292	0.4292	0.0000	1,340.5762	1,340.5762	0.3904	0.0000	1,350.3359
<b>Total</b>	<b>0.9836</b>	<b>10.2362</b>	<b>6.8199</b>	<b>0.0154</b>		<b>0.4624</b>	<b>0.4624</b>		<b>0.4292</b>	<b>0.4292</b>	<b>0.0000</b>	<b>1,340.5762</b>	<b>1,340.5762</b>	<b>0.3904</b>	<b>0.0000</b>	<b>1,350.3359</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
<b>Total</b>	<b>0.5022</b>	<b>3.2737</b>	<b>4.3350</b>	<b>0.0188</b>	<b>1.3260</b>	<b>0.0147</b>	<b>1.3407</b>	<b>0.3562</b>	<b>0.0138</b>	<b>0.3700</b>	<b>0.0000</b>	<b>1,751.3542</b>	<b>1,751.3542</b>	<b>0.0742</b>	<b>0.0000</b>	<b>1,753.2082</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1883	0.9968	8.1918	0.0154		0.0245	0.0245		0.0245	0.0245	0.0000	1,340.5746	1,340.5746	0.3904	0.0000	1,350.3343
<b>Total</b>	<b>0.1883</b>	<b>0.9968</b>	<b>8.1918</b>	<b>0.0154</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0245</b>	<b>0.0245</b>	<b>0.0000</b>	<b>1,340.5746</b>	<b>1,340.5746</b>	<b>0.3904</b>	<b>0.0000</b>	<b>1,350.3343</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
<b>Total</b>	<b>0.5022</b>	<b>3.2737</b>	<b>4.3350</b>	<b>0.0188</b>	<b>1.3260</b>	<b>0.0147</b>	<b>1.3407</b>	<b>0.3562</b>	<b>0.0138</b>	<b>0.3700</b>	<b>0.0000</b>	<b>1,751.3542</b>	<b>1,751.3542</b>	<b>0.0742</b>	<b>0.0000</b>	<b>1,753.2082</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8933	9.1089	6.5164	0.0150		0.4027	0.4027		0.3737	0.3737	0.0000	1,303.8123	1,303.8123	0.3788	0.0000	1,313.2830
<b>Total</b>	<b>0.8933</b>	<b>9.1089</b>	<b>6.5164</b>	<b>0.0150</b>		<b>0.4027</b>	<b>0.4027</b>		<b>0.3737</b>	<b>0.3737</b>	<b>0.0000</b>	<b>1,303.8123</b>	<b>1,303.8123</b>	<b>0.3788</b>	<b>0.0000</b>	<b>1,313.2830</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
<b>Total</b>	<b>0.4407</b>	<b>2.4231</b>	<b>3.8598</b>	<b>0.0176</b>	<b>1.2902</b>	<b>0.0110</b>	<b>1.3012</b>	<b>0.3466</b>	<b>0.0102</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,643.9764</b>	<b>1,643.9764</b>	<b>0.0644</b>	<b>0.0000</b>	<b>1,645.5868</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1831	0.9694	7.9661	0.0150		0.0238	0.0238		0.0238	0.0238	0.0000	1,303.8108	1,303.8108	0.3788	0.0000	1,313.2815
<b>Total</b>	<b>0.1831</b>	<b>0.9694</b>	<b>7.9661</b>	<b>0.0150</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>	<b>0.0000</b>	<b>1,303.8108</b>	<b>1,303.8108</b>	<b>0.3788</b>	<b>0.0000</b>	<b>1,313.2815</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
<b>Total</b>	<b>0.4407</b>	<b>2.4231</b>	<b>3.8598</b>	<b>0.0176</b>	<b>1.2902</b>	<b>0.0110</b>	<b>1.3012</b>	<b>0.3466</b>	<b>0.0102</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,643.9764</b>	<b>1,643.9764</b>	<b>0.0644</b>	<b>0.0000</b>	<b>1,645.5868</b>

### 3.6 Architectural Coating - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7700e-003	0.0329	0.0423	7.0000e-005	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
<b>Total</b>	<b>0.2828</b>	<b>0.0329</b>	<b>0.0423</b>	<b>7.0000e-005</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>5.9576</b>	<b>5.9576</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.9673</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
<b>Total</b>	<b>0.0484</b>	<b>0.0363</b>	<b>0.4181</b>	<b>1.2700e-003</b>	<b>0.1315</b>	<b>1.0500e-003</b>	<b>0.1326</b>	<b>0.0349</b>	<b>9.7000e-004</b>	<b>0.0359</b>	<b>0.0000</b>	<b>114.4986</b>	<b>114.4986</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>114.5774</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	3.0000e-003	0.0428	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
<b>Total</b>	<b>0.2788</b>	<b>3.0000e-003</b>	<b>0.0428</b>	<b>7.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.9576</b>	<b>5.9576</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.9673</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
<b>Total</b>	<b>0.0484</b>	<b>0.0363</b>	<b>0.4181</b>	<b>1.2700e-003</b>	<b>0.1315</b>	<b>1.0500e-003</b>	<b>0.1326</b>	<b>0.0349</b>	<b>9.7000e-004</b>	<b>0.0359</b>	<b>0.0000</b>	<b>114.4986</b>	<b>114.4986</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>114.5774</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.4743	0.6593	1.0800e-003		0.0258	0.0258		0.0258	0.0258	0.0000	92.9384	92.9384	5.5600e-003	0.0000	93.0774
<b>Total</b>	<b>4.4075</b>	<b>0.4743</b>	<b>0.6593</b>	<b>1.0800e-003</b>		<b>0.0258</b>	<b>0.0258</b>		<b>0.0258</b>	<b>0.0258</b>	<b>0.0000</b>	<b>92.9384</b>	<b>92.9384</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>93.0774</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
<b>Total</b>	<b>0.7102</b>	<b>0.5124</b>	<b>5.9980</b>	<b>0.0190</b>	<b>2.0513</b>	<b>0.0159</b>	<b>2.0673</b>	<b>0.5448</b>	<b>0.0147</b>	<b>0.5595</b>	<b>0.0000</b>	<b>1,720.8163</b>	<b>1,720.8163</b>	<b>0.0443</b>	<b>0.0000</b>	<b>1,721.9238</b>



**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0469	0.6670	1.0800e-003		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	92.9383	92.9383	5.5600e-003	0.0000	93.0773
<b>Total</b>	<b>4.3486</b>	<b>0.0469</b>	<b>0.6670</b>	<b>1.0800e-003</b>		<b>1.4400e-003</b>	<b>1.4400e-003</b>		<b>1.4400e-003</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>92.9383</b>	<b>92.9383</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>93.0773</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
<b>Total</b>	<b>0.7102</b>	<b>0.5124</b>	<b>5.9980</b>	<b>0.0190</b>	<b>2.0513</b>	<b>0.0159</b>	<b>2.0673</b>	<b>0.5448</b>	<b>0.0147</b>	<b>0.5595</b>	<b>0.0000</b>	<b>1,720.8163</b>	<b>1,720.8163</b>	<b>0.0443</b>	<b>0.0000</b>	<b>1,721.9238</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.1806	0.2682	4.4000e-004		9.0300e-003	9.0300e-003		9.0300e-003	9.0300e-003	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8840
<b>Total</b>	<b>1.7925</b>	<b>0.1806</b>	<b>0.2682</b>	<b>4.4000e-004</b>		<b>9.0300e-003</b>	<b>9.0300e-003</b>		<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>37.8307</b>	<b>37.8307</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>37.8840</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
<b>Total</b>	<b>0.2738</b>	<b>0.1902</b>	<b>2.2736</b>	<b>7.5000e-003</b>	<b>0.8350</b>	<b>6.3800e-003</b>	<b>0.8414</b>	<b>0.2218</b>	<b>5.8800e-003</b>	<b>0.2277</b>	<b>0.0000</b>	<b>678.7420</b>	<b>678.7420</b>	<b>0.0165</b>	<b>0.0000</b>	<b>679.1552</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0191	0.2715	4.4000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8839
<b>Total</b>	<b>1.7701</b>	<b>0.0191</b>	<b>0.2715</b>	<b>4.4000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>37.8307</b>	<b>37.8307</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>37.8839</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
<b>Total</b>	<b>0.2738</b>	<b>0.1902</b>	<b>2.2736</b>	<b>7.5000e-003</b>	<b>0.8350</b>	<b>6.3800e-003</b>	<b>0.8414</b>	<b>0.2218</b>	<b>5.8800e-003</b>	<b>0.2277</b>	<b>0.0000</b>	<b>678.7420</b>	<b>678.7420</b>	<b>0.0165</b>	<b>0.0000</b>	<b>679.1552</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**IBEC Construction - Run 2 (Tier 4 Final Equipment)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Land uses provided by the applicant. Run 2 land uses only.

Construction Phase - Construction phases and schedule provided by applicant for parking garages and plaza improvements. Run 2: 8/3/2021 - 6/28/2024.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Grading - Based on anticipated material export trips and default acres graded.

Trips and VMT - Project-specific trips for worker trips in the paving phase and haul trips for the building construction hauling to account for concrete trucks. Concrete trucks scaled up to account for East parking structure.

Energy Use - Operational inputs set to zero, as operational emissions are analyzed in a separate CalEEMod run.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment set to Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	61.00
tblConstructionPhase	NumDays	230.00	698.00
tblConstructionPhase	NumDays	20.00	61.00
tblConstructionPhase	NumDays	20.00	61.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/24/2022	6/28/2024
tblConstructionPhase	PhaseEndDate	8/29/2022	2/8/2024
tblConstructionPhase	PhaseEndDate	10/11/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	9/26/2022	4/19/2024
tblConstructionPhase	PhaseEndDate	9/13/2021	9/6/2021

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

tblConstructionPhase	PhaseStartDate	9/27/2022	4/19/2024
tblConstructionPhase	PhaseStartDate	10/12/2021	11/17/2021
tblConstructionPhase	PhaseStartDate	9/14/2021	9/7/2021
tblConstructionPhase	PhaseStartDate	8/30/2022	2/9/2024
tblConstructionPhase	PhaseStartDate	8/31/2021	8/3/2021
tblEnergyUse	LightingElect	1.75	0.00
tblGrading	AcresOfGrading	53.38	30.50
tblGrading	MaterialExported	0.00	296,740.00
tblGrading	MaterialExported	0.00	17,930.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	5.31	3.35
tblOffRoadEquipment	UsageHours	6.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	37,093.00	37,092.00
tblTripsAndVMT	HaulingTripNumber	0.00	10,349.00
tblTripsAndVMT	WorkerTripNumber	15.00	90.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5323	9.0644	3.9132	0.0217	1.4085	0.1692	1.5778	0.5981	0.1570	0.7551	0.0000	2,079.6685	2,079.6685	0.2109	0.0000	2,084.9406
2022	1.0256	9.0963	9.3343	0.0298	1.3997	0.2538	1.6535	0.3770	0.2385	0.6154	0.0000	2,736.2381	2,736.2381	0.2609	0.0000	2,742.7609
2023	0.9249	7.5919	8.8802	0.0289	1.3954	0.2165	1.6119	0.3758	0.2033	0.5791	0.0000	2,656.8195	2,656.8195	0.2491	0.0000	2,663.0478
2024	0.3930	1.4048	2.0449	5.1900e-003	0.2838	0.0507	0.3346	0.0748	0.0474	0.1222	0.0000	469.7556	469.7556	0.0638	0.0000	471.3503
Maximum	1.0256	9.0963	9.3343	0.0298	1.4085	0.2538	1.6535	0.5981	0.2385	0.7551	0.0000	2,736.2381	2,736.2381	0.2609	0.0000	2,742.7609

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2826	6.2579	4.0407	0.0217	0.9025	0.0244	0.9269	0.3286	0.0235	0.3521	0.0000	2,079.668 1	2,079.668 1	0.2109	0.0000	2,084.940 3
2022	0.6247	5.1437	9.6696	0.0298	1.3997	0.0291	1.4288	0.3770	0.0280	0.4050	0.0000	2,736.237 3	2,736.237 3	0.2609	0.0000	2,742.760 1
2023	0.5639	4.0148	9.2496	0.0289	1.3954	0.0242	1.4196	0.3758	0.0234	0.3992	0.0000	2,656.818 7	2,656.818 7	0.2491	0.0000	2,663.046 9
2024	0.3083	0.5240	2.2318	5.1900e-003	0.2838	5.4500e-003	0.2893	0.0748	5.3100e-003	0.0801	0.0000	469.7554	469.7554	0.0638	0.0000	471.3500
Maximum	0.6247	6.2579	9.6696	0.0298	1.3997	0.0291	1.4288	0.3770	0.0280	0.4050	0.0000	2,736.237 3	2,736.237 3	0.2609	0.0000	2,742.760 1

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	38.12	41.30	-4.22	0.00	11.28	87.96	21.50	18.90	87.58	40.32	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-3-2021	11-2-2021	6.7736	4.6010
2	11-3-2021	2-2-2022	3.5712	2.3039
3	2-3-2022	5-2-2022	2.4512	1.3902
4	5-3-2022	8-2-2022	2.5215	1.4247
5	8-3-2022	11-2-2022	2.5284	1.4316
6	11-3-2022	2-2-2023	2.4005	1.3400
7	2-3-2023	5-2-2023	2.0738	1.1109
8	5-3-2023	8-2-2023	2.1333	1.1380



IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

9	8-3-2023	11-2-2023	2.1391	1.1438
10	11-3-2023	2-2-2024	2.1165	1.1489
11	2-3-2024	5-2-2024	0.7761	0.2187
12	5-3-2024	8-2-2024	0.2644	0.1937
		Highest	6.7736	4.6010

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1229</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1229</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/3/2021	9/6/2021	6	30	
2	Grading	Grading	9/7/2021	11/16/2021	6	61	
3	Building Construction	Building Construction	11/17/2021	2/8/2024	6	698	
4	Paving	Paving	2/9/2024	4/19/2024	6	61	
5	Architectural Coating	Architectural Coating	4/19/2024	6/28/2024	6	61	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 30.5**

**Acres of Paving: 9.28**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 89,930 (Architectural Coating – sqft)**

**OffRoad Equipment**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	14.00	78	0.48
Grading	Excavators	1	14.00	158	0.38
Building Construction	Cranes	1	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Paving	Pavers	2	14.00	130	0.42
Paving	Rollers	2	14.00	80	0.38
Grading	Rubber Tired Dozers	1	14.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Grading	Graders	1	14.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Paving	Paving Equipment	2	14.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	14.00	247	0.40
Building Construction	Welders	1	14.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	2,241.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	37,092.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	630.00	246.00	10,349.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	90.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	126.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4753	0.0000	0.4753	0.2608	0.0000	0.2608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1021	1.0631	0.5553	1.0000e-003		0.0537	0.0537		0.0494	0.0494	0.0000	87.7688	87.7688	0.0284	0.0000	88.4784
<b>Total</b>	<b>0.1021</b>	<b>1.0631</b>	<b>0.5553</b>	<b>1.0000e-003</b>	<b>0.4753</b>	<b>0.0537</b>	<b>0.5289</b>	<b>0.2608</b>	<b>0.0494</b>	<b>0.3102</b>	<b>0.0000</b>	<b>87.7688</b>	<b>87.7688</b>	<b>0.0284</b>	<b>0.0000</b>	<b>88.4784</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4400e-003	0.3102	0.0723	8.7000e-004	0.0193	9.3000e-004	0.0202	5.2900e-003	8.9000e-004	6.1800e-003	0.0000	85.4153	85.4153	5.9300e-003	0.0000	85.5635
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.0000e-004	0.0102	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6701	2.6701	8.0000e-005	0.0000	2.6720
<b>Total</b>	<b>0.0106</b>	<b>0.3111</b>	<b>0.0825</b>	<b>9.0000e-004</b>	<b>0.0222</b>	<b>9.5000e-004</b>	<b>0.0232</b>	<b>6.0800e-003</b>	<b>9.1000e-004</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>88.0854</b>	<b>88.0854</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>88.2355</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1854	0.0000	0.1854	0.1017	0.0000	0.1017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0530	0.5478	1.0000e-003		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	87.7687	87.7687	0.0284	0.0000	88.4783
<b>Total</b>	<b>0.0122</b>	<b>0.0530</b>	<b>0.5478</b>	<b>1.0000e-003</b>	<b>0.1854</b>	<b>1.6300e-003</b>	<b>0.1870</b>	<b>0.1017</b>	<b>1.6300e-003</b>	<b>0.1034</b>	<b>0.0000</b>	<b>87.7687</b>	<b>87.7687</b>	<b>0.0284</b>	<b>0.0000</b>	<b>88.4783</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4400e-003	0.3102	0.0723	8.7000e-004	0.0193	9.3000e-004	0.0202	5.2900e-003	8.9000e-004	6.1800e-003	0.0000	85.4153	85.4153	5.9300e-003	0.0000	85.5635
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.0000e-004	0.0102	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6701	2.6701	8.0000e-005	0.0000	2.6720
<b>Total</b>	<b>0.0106</b>	<b>0.3111</b>	<b>0.0825</b>	<b>9.0000e-004</b>	<b>0.0222</b>	<b>9.5000e-004</b>	<b>0.0232</b>	<b>6.0800e-003</b>	<b>9.1000e-004</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>88.0854</b>	<b>88.0854</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>88.2355</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3544	0.0000	0.3544	0.1810	0.0000	0.1810	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.3203	0.8464	1.5800e-003		0.0619	0.0619		0.0570	0.0570	0.0000	139.0616	139.0616	0.0450	0.0000	140.1860
<b>Total</b>	<b>0.1223</b>	<b>1.3203</b>	<b>0.8464</b>	<b>1.5800e-003</b>	<b>0.3544</b>	<b>0.0619</b>	<b>0.4163</b>	<b>0.1810</b>	<b>0.0570</b>	<b>0.2379</b>	<b>0.0000</b>	<b>139.0616</b>	<b>139.0616</b>	<b>0.0450</b>	<b>0.0000</b>	<b>140.1860</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1562	5.1340	1.1971	0.0144	0.3187	0.0154	0.3341	0.0875	0.0147	0.1022	0.0000	1,413.7546	1,413.7546	0.0981	0.0000	1,416.2077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.5300e-003	0.0173	5.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3300e-003	4.0000e-005	1.3700e-003	0.0000	4.5243	4.5243	1.3000e-004	0.0000	4.5276
<b>Total</b>	<b>0.1582</b>	<b>5.1355</b>	<b>1.2144</b>	<b>0.0144</b>	<b>0.3238</b>	<b>0.0154</b>	<b>0.3392</b>	<b>0.0889</b>	<b>0.0147</b>	<b>0.1036</b>	<b>0.0000</b>	<b>1,418.2789</b>	<b>1,418.2789</b>	<b>0.0983</b>	<b>0.0000</b>	<b>1,420.7354</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1382	0.0000	0.1382	0.0706	0.0000	0.0706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.0840	0.9476	1.5800e-003		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	139.0614	139.0614	0.0450	0.0000	140.1858
<b>Total</b>	<b>0.0194</b>	<b>0.0840</b>	<b>0.9476</b>	<b>1.5800e-003</b>	<b>0.1382</b>	<b>2.5800e-003</b>	<b>0.1408</b>	<b>0.0706</b>	<b>2.5800e-003</b>	<b>0.0732</b>	<b>0.0000</b>	<b>139.0614</b>	<b>139.0614</b>	<b>0.0450</b>	<b>0.0000</b>	<b>140.1858</b>



IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1562	5.1340	1.1971	0.0144	0.3187	0.0154	0.3341	0.0875	0.0147	0.1022	0.0000	1,413.7546	1,413.7546	0.0981	0.0000	1,416.2077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.5300e-003	0.0173	5.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3300e-003	4.0000e-005	1.3700e-003	0.0000	4.5243	4.5243	1.3000e-004	0.0000	4.5276
<b>Total</b>	<b>0.1582</b>	<b>5.1355</b>	<b>1.2144</b>	<b>0.0144</b>	<b>0.3238</b>	<b>0.0154</b>	<b>0.3392</b>	<b>0.0889</b>	<b>0.0147</b>	<b>0.1036</b>	<b>0.0000</b>	<b>1,418.2789</b>	<b>1,418.2789</b>	<b>0.0983</b>	<b>0.0000</b>	<b>1,420.7354</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0690	0.6398	0.6030	9.8000e-004		0.0350	0.0350		0.0328	0.0328	0.0000	84.7016	84.7016	0.0209	0.0000	85.2241
<b>Total</b>	<b>0.0690</b>	<b>0.6398</b>	<b>0.6030</b>	<b>9.8000e-004</b>		<b>0.0350</b>	<b>0.0350</b>		<b>0.0328</b>	<b>0.0328</b>	<b>0.0000</b>	<b>84.7016</b>	<b>84.7016</b>	<b>0.0209</b>	<b>0.0000</b>	<b>85.2241</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4400e-003	0.0800	0.0187	2.2000e-004	0.0681	2.4000e-004	0.0683	0.0169	2.3000e-004	0.0171	0.0000	22.0395	22.0395	1.5300e-003	0.0000	22.0777
Vendor	0.0149	0.4734	0.1284	1.2200e-003	0.0302	9.7000e-004	0.0312	8.7200e-003	9.2000e-004	9.6400e-003	0.0000	118.2444	118.2444	7.2500e-003	0.0000	118.4257
Worker	0.0529	0.0412	0.4646	1.3400e-003	0.1346	1.1100e-003	0.1357	0.0358	1.0200e-003	0.0368	0.0000	121.4885	121.4885	3.5700e-003	0.0000	121.5778
<b>Total</b>	<b>0.0702</b>	<b>0.5946</b>	<b>0.6116</b>	<b>2.7800e-003</b>	<b>0.2329</b>	<b>2.3200e-003</b>	<b>0.2353</b>	<b>0.0613</b>	<b>2.1700e-003</b>	<b>0.0635</b>	<b>0.0000</b>	<b>261.7724</b>	<b>261.7724</b>	<b>0.0124</b>	<b>0.0000</b>	<b>262.0813</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0120	0.0797	0.6369	9.8000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	84.7015	84.7015	0.0209	0.0000	85.2240
<b>Total</b>	<b>0.0120</b>	<b>0.0797</b>	<b>0.6369</b>	<b>9.8000e-004</b>		<b>1.5000e-003</b>	<b>1.5000e-003</b>		<b>1.5000e-003</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>84.7015</b>	<b>84.7015</b>	<b>0.0209</b>	<b>0.0000</b>	<b>85.2240</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4400e-003	0.0800	0.0187	2.2000e-004	0.0681	2.4000e-004	0.0683	0.0169	2.3000e-004	0.0171	0.0000	22.0395	22.0395	1.5300e-003	0.0000	22.0777
Vendor	0.0149	0.4734	0.1284	1.2200e-003	0.0302	9.7000e-004	0.0312	8.7200e-003	9.2000e-004	9.6400e-003	0.0000	118.2444	118.2444	7.2500e-003	0.0000	118.4257
Worker	0.0529	0.0412	0.4646	1.3400e-003	0.1346	1.1100e-003	0.1357	0.0358	1.0200e-003	0.0368	0.0000	121.4885	121.4885	3.5700e-003	0.0000	121.5778
<b>Total</b>	<b>0.0702</b>	<b>0.5946</b>	<b>0.6116</b>	<b>2.7800e-003</b>	<b>0.2329</b>	<b>2.3200e-003</b>	<b>0.2353</b>	<b>0.0613</b>	<b>2.1700e-003</b>	<b>0.0635</b>	<b>0.0000</b>	<b>261.7724</b>	<b>261.7724</b>	<b>0.0124</b>	<b>0.0000</b>	<b>262.0813</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4970	4.5921	4.7762	7.8900e-003		0.2368	0.2368		0.2225	0.2225	0.0000	680.0597	680.0597	0.1667	0.0000	684.2280
<b>Total</b>	<b>0.4970</b>	<b>4.5921</b>	<b>4.7762</b>	<b>7.8900e-003</b>		<b>0.2368</b>	<b>0.2368</b>		<b>0.2225</b>	<b>0.2225</b>	<b>0.0000</b>	<b>680.0597</b>	<b>680.0597</b>	<b>0.1667</b>	<b>0.0000</b>	<b>684.2280</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0186	0.5962	0.1481	1.7700e-003	0.0768	1.6700e-003	0.0784	0.0200	1.6000e-003	0.0216	0.0000	174.7775	174.7775	0.0121	0.0000	175.0797
Vendor	0.1122	3.6097	0.9747	9.6900e-003	0.2425	6.7700e-003	0.2493	0.0700	6.4800e-003	0.0765	0.0000	940.6520	940.6520	0.0562	0.0000	942.0566
Worker	0.3978	0.2983	3.4354	0.0104	1.0804	8.6300e-003	1.0890	0.2870	7.9500e-003	0.2949	0.0000	940.7489	940.7489	0.0259	0.0000	941.3966
<b>Total</b>	<b>0.5286</b>	<b>4.5042</b>	<b>4.5581</b>	<b>0.0219</b>	<b>1.3997</b>	<b>0.0171</b>	<b>1.4168</b>	<b>0.3770</b>	<b>0.0160</b>	<b>0.3930</b>	<b>0.0000</b>	<b>2,056.1784</b>	<b>2,056.1784</b>	<b>0.0942</b>	<b>0.0000</b>	<b>2,058.5329</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0961	0.6395	5.1114	7.8900e-003		0.0120	0.0120		0.0120	0.0120	0.0000	680.0589	680.0589	0.1667	0.0000	684.2272
<b>Total</b>	<b>0.0961</b>	<b>0.6395</b>	<b>5.1114</b>	<b>7.8900e-003</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>680.0589</b>	<b>680.0589</b>	<b>0.1667</b>	<b>0.0000</b>	<b>684.2272</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0186	0.5962	0.1481	1.7700e-003	0.0768	1.6700e-003	0.0784	0.0200	1.6000e-003	0.0216	0.0000	174.7775	174.7775	0.0121	0.0000	175.0797
Vendor	0.1122	3.6097	0.9747	9.6900e-003	0.2425	6.7700e-003	0.2493	0.0700	6.4800e-003	0.0765	0.0000	940.6520	940.6520	0.0562	0.0000	942.0566
Worker	0.3978	0.2983	3.4354	0.0104	1.0804	8.6300e-003	1.0890	0.2870	7.9500e-003	0.2949	0.0000	940.7489	940.7489	0.0259	0.0000	941.3966
<b>Total</b>	<b>0.5286</b>	<b>4.5042</b>	<b>4.5581</b>	<b>0.0219</b>	<b>1.3997</b>	<b>0.0171</b>	<b>1.4168</b>	<b>0.3770</b>	<b>0.0160</b>	<b>0.3930</b>	<b>0.0000</b>	<b>2,056.1784</b>	<b>2,056.1784</b>	<b>0.0942</b>	<b>0.0000</b>	<b>2,058.5329</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4569	4.2145	4.7256	7.8700e-003		0.2042	0.2042		0.1919	0.1919	0.0000	678.1350	678.1350	0.1652	0.0000	682.2649
<b>Total</b>	<b>0.4569</b>	<b>4.2145</b>	<b>4.7256</b>	<b>7.8700e-003</b>		<b>0.2042</b>	<b>0.2042</b>		<b>0.1919</b>	<b>0.1919</b>	<b>0.0000</b>	<b>678.1350</b>	<b>678.1350</b>	<b>0.1652</b>	<b>0.0000</b>	<b>682.2649</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0122	0.3899	0.1339	1.6900e-003	0.0767	7.0000e-004	0.0774	0.0200	6.7000e-004	0.0207	0.0000	166.9634	166.9634	0.0112	0.0000	167.2431
Vendor	0.0831	2.7185	0.8717	9.3500e-003	0.2417	3.1700e-003	0.2449	0.0698	3.0300e-003	0.0728	0.0000	908.2925	908.2925	0.0495	0.0000	909.5298
Worker	0.3729	0.2690	3.1489	9.9900e-003	1.0770	8.3500e-003	1.0853	0.2860	7.6900e-003	0.2937	0.0000	903.4286	903.4286	0.0233	0.0000	904.0100
<b>Total</b>	<b>0.4681</b>	<b>3.3774</b>	<b>4.1545</b>	<b>0.0210</b>	<b>1.3954</b>	<b>0.0122</b>	<b>1.4077</b>	<b>0.3758</b>	<b>0.0114</b>	<b>0.3872</b>	<b>0.0000</b>	<b>1,978.6845</b>	<b>1,978.6845</b>	<b>0.0839</b>	<b>0.0000</b>	<b>1,980.7829</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0958	0.6374	5.0951	7.8700e-003		0.0120	0.0120		0.0120	0.0120	0.0000	678.1342	678.1342	0.1652	0.0000	682.2641
<b>Total</b>	<b>0.0958</b>	<b>0.6374</b>	<b>5.0951</b>	<b>7.8700e-003</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>678.1342</b>	<b>678.1342</b>	<b>0.1652</b>	<b>0.0000</b>	<b>682.2641</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0122	0.3899	0.1339	1.6900e-003	0.0767	7.0000e-004	0.0774	0.0200	6.7000e-004	0.0207	0.0000	166.9634	166.9634	0.0112	0.0000	167.2431
Vendor	0.0831	2.7185	0.8717	9.3500e-003	0.2417	3.1700e-003	0.2449	0.0698	3.0300e-003	0.0728	0.0000	908.2925	908.2925	0.0495	0.0000	909.5298
Worker	0.3729	0.2690	3.1489	9.9900e-003	1.0770	8.3500e-003	1.0853	0.2860	7.6900e-003	0.2937	0.0000	903.4286	903.4286	0.0233	0.0000	904.0100
<b>Total</b>	<b>0.4681</b>	<b>3.3774</b>	<b>4.1545</b>	<b>0.0210</b>	<b>1.3954</b>	<b>0.0122</b>	<b>1.4077</b>	<b>0.3758</b>	<b>0.0114</b>	<b>0.3872</b>	<b>0.0000</b>	<b>1,978.6845</b>	<b>1,978.6845</b>	<b>0.0839</b>	<b>0.0000</b>	<b>1,980.7829</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0466	0.4291	0.5125	8.6000e-004		0.0195	0.0195		0.0183	0.0183	0.0000	73.9144	73.9144	0.0179	0.0000	74.3621
<b>Total</b>	<b>0.0466</b>	<b>0.4291</b>	<b>0.5125</b>	<b>8.6000e-004</b>		<b>0.0195</b>	<b>0.0195</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>73.9144</b>	<b>73.9144</b>	<b>0.0179</b>	<b>0.0000</b>	<b>74.3621</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0422	0.0148	1.8000e-004	0.0679	8.0000e-005	0.0680	0.0168	7.0000e-005	0.0169	0.0000	18.1129	18.1129	1.2200e-003	0.0000	18.1433
Vendor	8.8300e-003	0.2951	0.0921	1.0100e-003	0.0263	3.4000e-004	0.0267	7.6000e-003	3.3000e-004	7.9300e-003	0.0000	98.5863	98.5863	5.3100e-003	0.0000	98.7191
Worker	0.0385	0.0267	0.3196	1.0500e-003	0.1174	9.0000e-004	0.1183	0.0312	8.3000e-004	0.0320	0.0000	95.3980	95.3980	2.3200e-003	0.0000	95.4561
<b>Total</b>	<b>0.0487</b>	<b>0.3641</b>	<b>0.4264</b>	<b>2.2400e-003</b>	<b>0.2116</b>	<b>1.3200e-003</b>	<b>0.2130</b>	<b>0.0556</b>	<b>1.2300e-003</b>	<b>0.0568</b>	<b>0.0000</b>	<b>212.0971</b>	<b>212.0971</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>212.3185</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0695	0.5552	8.6000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	73.9143	73.9143	0.0179	0.0000	74.3620
<b>Total</b>	<b>0.0104</b>	<b>0.0695</b>	<b>0.5552</b>	<b>8.6000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>73.9143</b>	<b>73.9143</b>	<b>0.0179</b>	<b>0.0000</b>	<b>74.3620</b>



IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0422	0.0148	1.8000e-004	0.0679	8.0000e-005	0.0680	0.0168	7.0000e-005	0.0169	0.0000	18.1129	18.1129	1.2200e-003	0.0000	18.1433
Vendor	8.8300e-003	0.2951	0.0921	1.0100e-003	0.0263	3.4000e-004	0.0267	7.6000e-003	3.3000e-004	7.9300e-003	0.0000	98.5863	98.5863	5.3100e-003	0.0000	98.7191
Worker	0.0385	0.0267	0.3196	1.0500e-003	0.1174	9.0000e-004	0.1183	0.0312	8.3000e-004	0.0320	0.0000	95.3980	95.3980	2.3200e-003	0.0000	95.4561
<b>Total</b>	<b>0.0487</b>	<b>0.3641</b>	<b>0.4264</b>	<b>2.2400e-003</b>	<b>0.2116</b>	<b>1.3200e-003</b>	<b>0.2130</b>	<b>0.0556</b>	<b>1.2300e-003</b>	<b>0.0568</b>	<b>0.0000</b>	<b>212.0971</b>	<b>212.0971</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>212.3185</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0527	0.5084	0.7807	1.2200e-003		0.0250	0.0250		0.0230	0.0230	0.0000	106.8916	106.8916	0.0346	0.0000	107.7559
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0527</b>	<b>0.5084</b>	<b>0.7807</b>	<b>1.2200e-003</b>		<b>0.0250</b>	<b>0.0250</b>		<b>0.0230</b>	<b>0.0230</b>	<b>0.0000</b>	<b>106.8916</b>	<b>106.8916</b>	<b>0.0346</b>	<b>0.0000</b>	<b>107.7559</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8600e-003	6.8500e-003	0.0819	2.7000e-004	0.0301	2.3000e-004	0.0303	7.9900e-003	2.1000e-004	8.2000e-003	0.0000	24.4508	24.4508	6.0000e-004	0.0000	24.4656
<b>Total</b>	<b>9.8600e-003</b>	<b>6.8500e-003</b>	<b>0.0819</b>	<b>2.7000e-004</b>	<b>0.0301</b>	<b>2.3000e-004</b>	<b>0.0303</b>	<b>7.9900e-003</b>	<b>2.1000e-004</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>24.4508</b>	<b>24.4508</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>24.4656</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0150	0.0649	0.9232	1.2200e-003		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	106.8915	106.8915	0.0346	0.0000	107.7558
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0150</b>	<b>0.0649</b>	<b>0.9232</b>	<b>1.2200e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>106.8915</b>	<b>106.8915</b>	<b>0.0346</b>	<b>0.0000</b>	<b>107.7558</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8600e-003	6.8500e-003	0.0819	2.7000e-004	0.0301	2.3000e-004	0.0303	7.9900e-003	2.1000e-004	8.2000e-003	0.0000	24.4508	24.4508	6.0000e-004	0.0000	24.4656
<b>Total</b>	<b>9.8600e-003</b>	<b>6.8500e-003</b>	<b>0.0819</b>	<b>2.7000e-004</b>	<b>0.0301</b>	<b>2.3000e-004</b>	<b>0.0303</b>	<b>7.9900e-003</b>	<b>2.1000e-004</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>24.4508</b>	<b>24.4508</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>24.4656</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.0867	0.1288	2.1000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	18.1707	18.1707	1.0200e-003	0.0000	18.1962
<b>Total</b>	<b>0.2213</b>	<b>0.0867</b>	<b>0.1288</b>	<b>2.1000e-004</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>	<b>0.0000</b>	<b>18.1707</b>	<b>18.1707</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>18.1962</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0138	9.5900e-003	0.1147	3.8000e-004	0.0421	3.2000e-004	0.0424	0.0112	3.0000e-004	0.0115	0.0000	34.2310	34.2310	8.3000e-004	0.0000	34.2519
<b>Total</b>	<b>0.0138</b>	<b>9.5900e-003</b>	<b>0.1147</b>	<b>3.8000e-004</b>	<b>0.0421</b>	<b>3.2000e-004</b>	<b>0.0424</b>	<b>0.0112</b>	<b>3.0000e-004</b>	<b>0.0115</b>	<b>0.0000</b>	<b>34.2310</b>	<b>34.2310</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>34.2519</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1100e-003	9.1600e-003	0.1304	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.1706	18.1706	1.0200e-003	0.0000	18.1962
<b>Total</b>	<b>0.2105</b>	<b>9.1600e-003</b>	<b>0.1304</b>	<b>2.1000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>18.1706</b>	<b>18.1706</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>18.1962</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0138	9.5900e-003	0.1147	3.8000e-004	0.0421	3.2000e-004	0.0424	0.0112	3.0000e-004	0.0115	0.0000	34.2310	34.2310	8.3000e-004	0.0000	34.2519
<b>Total</b>	<b>0.0138</b>	<b>9.5900e-003</b>	<b>0.1147</b>	<b>3.8000e-004</b>	<b>0.0421</b>	<b>3.2000e-004</b>	<b>0.0424</b>	<b>0.0112</b>	<b>3.0000e-004</b>	<b>0.0115</b>	<b>0.0000</b>	<b>34.2310</b>	<b>34.2310</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>34.2519</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix







IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
Unmitigated	0.1229	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2200e-003	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
<b>Total</b>	<b>0.1230</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2200e-003	5.1000e-004	0.0565	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172
<b>Total</b>	<b>0.1230</b>	<b>5.1000e-004</b>	<b>0.0565</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.1100</b>	<b>0.1100</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1172</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## IBEC Construction - Run 2 (Tier 4 Final Equipment) - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**IBEC Demolition of Additional Parcels Under Variants**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Only demolition run.

Construction Phase - Based on demo schedule

Off-road Equipment - demo only

Off-road Equipment - Additional demolition equipment.

Trips and VMT - Additional trips for demolition of buildings under variants.

Demolition - Additional variant buildings to be demolished.

Architectural Coating - Demolition run only.

Vehicle Trips - Demolition run only.

Area Coating - Demolition run only.

Energy Use - Demolition run only.

Water And Wastewater - Demolition run only.

Solid Waste - Demolition run only.

Construction Off-road Equipment Mitigation - Tier 4 Final equipment included.

## IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	8.59	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.93	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	177,733.75	0.00
tblWater	OutdoorWaterUseRate	108,933.59	0.00

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	78.89	90.79	-3.53	0.00	0.00	95.44	67.59	0.00	95.22	86.62	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	0.1790	0.0186
		Highest	0.1790	0.0186

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.6100e-003	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/20/2021	6	44	
2	Architectural Coating	Architectural Coating	12/14/2022	12/13/2022	5	0	

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	11.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1596	0.1665	2.6000e-004		8.9600e-003	8.9600e-003		8.5500e-003	8.5500e-003	0.0000	22.9006	22.9006	4.2700e-003	0.0000	23.0073
<b>Total</b>	<b>0.0175</b>	<b>0.1596</b>	<b>0.1665</b>	<b>2.6000e-004</b>	<b>1.1900e-003</b>	<b>8.9600e-003</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>8.5500e-003</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>22.9006</b>	<b>22.9006</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>23.0073</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>1.0000e-003</b>	<b>2.2600e-003</b>	<b>8.6800e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.5949</b>	<b>2.5949</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.5972</b>

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9200e-003	0.0126	0.1727	2.6000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	22.9005	22.9005	4.2700e-003	0.0000	23.0072
<b>Total</b>	<b>2.9200e-003</b>	<b>0.0126</b>	<b>0.1727</b>	<b>2.6000e-004</b>	<b>1.1900e-003</b>	<b>3.9000e-004</b>	<b>1.5800e-003</b>	<b>1.8000e-004</b>	<b>3.9000e-004</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>22.9005</b>	<b>22.9005</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>23.0072</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>1.0000e-003</b>	<b>2.2600e-003</b>	<b>8.6800e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.5949</b>	<b>2.5949</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.5972</b>





IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**3.3 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850





IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

7.0 Water Detail

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7.1 Mitigation Measures Water



IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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IBEC Demolition of Additional Parcels Under Variants - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Shannon Hatcher  
Air Pollution Specialist  
Transportation Analysis Section  
Air Quality Planning & Science Division  
California Air Resources Board  
1001 I Street  
P.O. Box 2815  
Sacramento, CA 95812-2815

Subject:       **Inglewood Basketball and Entertainment Center Project**  
                  **Case No. 2018021056**  
                  **Greenhouse Gas Emissions Offset Commitment Approach**

Dear Mr. Hatcher,

Murphy's Bowl LLC (the "Applicant") submitted an application seeking certification of the Inglewood Basketball and Entertainment Center project (the "Project") for streamlining of judicial review under the California Environmental Quality Act pursuant to AB 987 on January 2, 2019, and submitted supplemental materials on June 12, 2019 (collectively, the "AB 987 Application"). Although not required by AB 987, this letter is provided to reaffirm the Applicant's commitment to achieve the net zero greenhouse gas ("GHG") emissions requirement of AB 987 through GHG emissions reductions identified in the AB 987 Application, and to provide reassurance to California Air Resources Board ("CARB") that 100% of the GHG emissions associated with the Project will be mitigated.

The Applicant has committed to comply with (1) Public Resources Code Section 21168.6.8(b)(3), which requires that the Project demonstrate that it will not result in any net new GHG emissions, and (2) Public Resources Code Section 21168.6.8(j)(3), which requires that not less than 50% of the GHG emissions reductions necessary to achieve the requirement of Public Resources Code Section 21168.6.8(b)(3) shall be from local, direct GHG emissions reductions measures. The Applicant has also committed to meeting the requirements in Public Resources Code Section 21168.6.8(a)(3)(B)(i), which requires the Project to include a transportation demand management ("TDM") program that, upon full implementation, will achieve and maintain a 15-percent reduction in the number of vehicle trips, collectively, by attendees, employees, visitors, and customers as compared to operations absent the TDM program.

The Applicant has committed to the following local, direct measures to mitigate 50% of the GHG emissions associated with the project as described and calculated in the AB 987 Application:

- (1) LEED Gold certification;
- (2) Implementation of the IBEC TDM Program; and

(3) To the extent necessary to achieve the requirement that 50% of the GHG emissions reductions be from local direct measures, the Applicant has also committed to one or more additional local, direct measures potentially including, but not limited to:

(A) Additional renewable energy production through installation of additional photovoltaic systems as carports on a third parking structure;

(B) Purchase of energy for onsite consumption through the Southern California Edison (SCE) Green Rate which facilitates SCE's purchase of renewable energy to meet the needs of Green rate participants from solar renewable developers within the SCE service territory; or

(C) If available after approval by applicable regulatory agencies, on-site use of renewable natural gas.

The AB 987 Application includes a detailed analysis based on reasonable projections of the number of market-shifted versus net new events at the IBEC arena and associated backfill of vacated event days at the Staples Center. This analysis was prepared by CSL International, experts in the sports, entertainment, visitor, and convention industries.

However, in order to provide further assurance that the estimate of GHG emissions is sufficiently conservative, the Applicant has committed to a verification process to be imposed by the City of Inglewood as a binding and enforceable condition of approval on the Project that would ensure that 100% of the actual GHG emissions resulting from incremental events associated with the Project will be calculated and mitigated such that the net zero GHG emissions standard will be met. This condition of approval will require the Applicant to verify the actual number and attendance of net new versus market shifted events, and implement sufficient additional GHG emissions reduction measures, as described below, to ensure compliance with Public Resources Code Section 21168.6.8(b)(5).

The verification process will be conducted as follows:

The Applicant would prepare and submit a GHG Verification Report to the City of Inglewood in 2028. The GHG Verification Report would first determine the growth rate in the regional events market, without the Project, based upon data from 10 years (2014-2023) before the Project becomes operational (the "Growth Rate"). Based on the Growth Rate, the GHG Verification Report would determine the number and attendance of events that would be likely to occur without the Project in the first few years after its opening (2024-2027), until the IBEC arena's effect on market growth would stabilize (2027) ("Without Project Events"). The GHG Verification Report would monitor and report the actual number and attendance of events that occur at the IBEC arena and existing venues between 2024-2027 ("Actual Events"). The difference between the number and attendance of Actual Events and Without Project Events would represent the IBEC arena's actual incremental effect on the number and attendance of events in the regional market ("Incremental Events"). The GHG Verification Report will then calculate the total incremental GHG emissions attributable to the IBEC arena over the Project's operational life based upon the Incremental Events.

If the total GHG emissions from the Incremental Events associated with the IBEC arena over the Project's operational life (up to 100% of all events occurring at the IBEC arena) calculated by the GHG Verification Report, using the same GHG emissions calculation methodology used in the AB 987 Application, exceeds the amount set forth in the AB 987 Application, the Applicant shall achieve additional GHG emissions reductions as necessary to meet the net zero standard.

Any additional GHG emissions reduction measures necessary to mitigate any such additional GHG emissions shall be achieved by at least 50% local, direct GHG emissions reduction measures. In addition to the measures already identified in the AB 987 Application, these measures may include one or more additional local, direct GHG emissions reduction measures, potentially including but not limited to the following (with associated GHG emission reductions indicated):

- Conversion of transit vehicles to ZEVs: \_\_\_ MT CO<sub>2</sub>e per vehicle.
- Conversion of City of Inglewood municipal fleet vehicles to ZEVs: \_\_\_ MT CO<sub>2</sub>e per vehicle.
- EV charging infrastructure: \_\_\_ MT CO<sub>2</sub>e per charger
- Solid waste/organic recycling: \_\_\_ MT CO<sub>2</sub>e per ton
- City of Inglewood tree planting: \_\_\_ MT CO<sub>2</sub>e per tree
- Building energy audits and retrofits: \_\_\_ MT CO<sub>2</sub>e per 1,000 SF
- SCE GreenRate Power: \_\_\_ MT CO<sub>2</sub>e per mWh

To achieve any remaining GHG emissions reductions necessary to achieve net zero after the 50% local, direction requirement has been met, the Applicant will, to the extent feasible, place the highest priority on the purchase of offset credits that produce emission reduction within the City of Inglewood or the boundaries of the South Coast Air Quality Management District. Carbon credits will be verified by a third party accredited by ARB, such as the American Carbon Registry, Climate Action Reserve, and Verified Carbon Standard. Carbon credits shall be purchased at a net present value although the contracts could propose acquiring the credits in advance of the emission-generating activities to be offset. Contracts to purchase carbon credits for construction emissions will be entered into prior to the issuance of grading permits, and contracts to purchase carbon credits for operational emissions calculated in the AB 987 Application will be entered into prior to the issuance of the final certificate of occupancy for the Project arena. If additional offset credits are necessary due to the analysis provided in the GHG Verification Report, such credits shall be purchased within one year of the City of Inglewood's approval of the GHG Verification Report. Copies of the contract(s) shall be provided to ARB and the Governor's office to verify that construction and operational emissions have been offset. Such contracts shall evidence the purchase of carbon credits in an amount sufficient to offset the remaining (after implementation of all local, direction emissions measures to meet the 50% local,

direction GHG emissions reduction requirement) operational emissions over the analysis horizon of 30 years.

The Applicant will provide documentation to CARB and the Governor's office of all local, direct GHG emissions reduction measures used to mitigate GHG emissions, and shall promptly submit copies of any executed contracts for purchased carbon credits to CARB and the Governor's office.

Sincerely,

Murphy's Bowl LLC  
a Delaware limited liability company

---

By: Brandt Vaughan  
Its: Manager



## ISSUES RESOLUTION

### 1. Emission Reduction Measures

- All mitigation required in the application, including 7 days backfill events at Staples Center, will be done as reflected in the application
- In addition, the Commitment Letter will be revised to reflect the following:
  - a. While Applicant believes the total emissions reductions required to achieve net zero GHG emissions in the application is accurate, Applicant agrees to implement any additional emissions reduction measures that may be necessary to offset any additional emissions exceeding the projections in the AB 987 application, based on the annual verification reports described below.
  - b. The commitment letter will include a calculation of the total emissions that would need to be reduced if a hypothetical 100% backfill scenario (i.e., 243 new events) were to occur and specify the additional quantified emissions reduction measures that would need to be used to reduce those emissions to net zero.

### 2. Enforcement

- The Commitment letter will be revised to reaffirm that the environmental measures required under AB 987, including those required pursuant to the verification report process, will be made conditions of approval of the project by the City of Inglewood, and will be legally enforceable by the City for the life of the obligation.
- In addition, copies of the annual Verification Reports will be sent to CARB and the Reports will include verification that mitigation required by the application or any previous Verification Report has been implemented, including the specific measures or strategies implemented and the reductions achieved.

### 3. Verification Reports

- Annual verification reports shall be submitted to the City of Inglewood (with copies to CARB) identifying the number of incremental events occurring in the regional market due to the IBEC arena, and calculating the resulting emissions and identifying any additional emissions reduction measures that may be necessary to meet the net zero standard or the 50% local, direct requirement.

### 4. Minor/Technical Issues

- Verification reports will address emissions from incremental events resulting from the IBEC arena, not from unrelated changes to existing conditions. Thus, annual reporting of events will be adjusted to account for anomalies that could distort the accurate reporting of net new events attributable to the IBEC arena such as the 2028 Olympics, changes to the number or schedule of sports teams using venues for home games, or similar circumstances.
- 30-year emissions reductions obligation (which is consistent with AB 900 certifications and exceeds the historical average lifespan of NBA home arenas), with monitoring of market effects of the IBEC arena for 10 years to confirm the number

of new events resulting from the arena, with ongoing annual reporting for the remainder of the 30-year operational life of the building.

- Prioritization of on-site, off-site local, etc., emissions reductions measures shall be as codified in the AB 987 statutory language, which requires not less than 50% local direct measures and no more than 50% offset credits.
- The GHG emissions reduction measure identified in the application of purchasing SCE Green Rate electricity would be expanded to the use of "renewable electricity," which would be defined to include participation in the SCE Green Rate Program, the SCE Community Renewables Program, or similar opportunities for renewable power that could emerge in the future.

November 1, 2019

Mr. Shannon Hatcher  
Air Pollution Specialist  
California Air Resources Board  
1001 I Street  
P.O. Box 2815  
Sacramento, CA 95812 - 2815

Re: **Inglewood Basketball and Entertainment Center Project  
State Clearinghouse No. 2018021056  
Greenhouse Gas Emissions Offset Commitment Approach**

Dear Mr. Hatcher,

Murphy's Bowl LLC (the "Applicant") submitted an application seeking certification of the Inglewood Basketball and Entertainment Center project (the "Project") for streamlining of judicial review under the California Environmental Quality Act pursuant to AB 987 on January 2, 2019, and submitted supplemental materials on June 12, 2019 (collectively, the "AB 987 Application"). Attachment F to the AB 987 Application is a binding and enforceable agreement between the Applicant and the City of Inglewood (the "City") that all environmental measures required to certify the Project under AB 987, including the commitments herein, shall be imposed by the City as conditions of approval that will be monitored and fully enforceable by the City for the life of the obligation.

This letter is provided to reaffirm the Applicant's commitment and to provide reassurance to California Air Resources Board ("CARB") that (1) 100% of the GHG emissions associated with the Project will be reduced such that the project results in no net additional emissions (the "Net Zero Standard"), and (2) not less than 50% of the GHG emissions reductions will be achieved through local, direct measures, and not more than 50% of the GHG emissions reductions will be achieved through the purchase of GHG offset credits. This letter is a revision of our earlier draft and reflects subsequent discussions and joint agreement, subject to CARB's review of the calculations included in this letter and its accompanying materials.

Thus, this reiterates the AB 987 Application's statement of compliance with all the directives of Public Resources Code Section 21168.6.8, including without limitation those requiring that the Project demonstrate that (1) it will meet the Net Zero Standard, (2) not less than 50% of the GHG emissions reductions necessary to achieve that requirement shall be from local, direct GHG emissions reductions measures, and (3) it will include a transportation demand management ("TDM") program that, upon full implementation, will achieve and maintain a 15% reduction in the number of vehicle trips, collectively, by attendees, employees, visitors, and customers as compared to operations absent the TDM program.

## Executive Summary

The Applicant understands that CARB staff has been reviewing the projected GHG emissions in the AB 987 Application and will confirm the GHG emission factors used to estimate construction and operational emissions. Although the AB 987 Application's Project GHG emissions calculations are supported by substantial evidence and reasonably rely upon expert opinion, including detailed analyses based on reasonable projections of the number of market-shifted versus net new non-NBA events at the Project Arena and associated backfill of vacated LA Clippers event days at the Staples Center, CARB has requested that the Applicant provide calculations and an emissions reduction methodology for a hypothetical 100% backfill GHG emissions scenario that would assume that all vacated LA Clippers and market-shifted non-NBA events at the Project Arena would be replaced by other events at Staples Center and other existing venues in the Los Angeles region.

This commitment letter includes, as Exhibit A, a calculation of the additional GHG emissions that would result from that hypothetical scenario, and includes commitments to (1) achieve all of the total GHG emissions reductions, including the 50% local direct emissions reduction measures, to achieve the Net Zero Standard based upon the methodology and calculations in the AB 987 Application; (2) purchase additional carbon offset credits to achieve 50% of the additional GHG emissions reductions that would be necessary under the hypothetical 100% backfill GHG emissions scenario; (3) implement several specific additional local direct measures to achieve substantial emissions reductions above those necessary under the AB 987 Application's calculations which, together with the additional carbon offset credits identified above, would achieve approximately 95% of the emissions reductions that would be necessary under the hypothetical 100% backfill GHG emissions scenario, and (4) if any of the additional 5% of emissions reductions under the hypothetical scenario are shown to be necessary under the verification process described below, to identify and implement the additional local direct measures that would be necessary to achieve those reductions.

In order to provide further assurance to CARB that the Net Zero Standard and local direct GHG emissions reduction measures requirement of AB 987 will be met, the Applicant has also committed to an annual verification process under which the Applicant would submit to the City, with a copy provided to CARB, annual verification reports. These reports would (1) determine the actual number of incremental events in the regional event market that are directly or indirectly attributable to the Project Arena and the related GHG emissions, (2) report on the implementation and efficiency of local direct emissions reduction measures over the previous year, and (3) identify any new local direct measures to be implemented beginning in the following year to account for any potential shortfall in emissions reductions.

If an annual verification report shows that emissions reductions achieved through emissions reductions measures implemented in the previous year exceed the amount of actual GHG emissions for that year as calculated in the report, such excess emissions reductions shall be credited toward future years and such credit shall be reflected in subsequent GHG Verification Reports.

## AB 987 Commitments

The AB 987 Application includes the Applicant's commitment to implement the following local, direct measures to mitigate 50% of the GHG emissions associated with the Project, as described and calculated in the AB 987 Application, by the end of the first NBA regular season or June of the first NBA regular season, whichever is later, during which an NBA team has played at the Project Arena, with annual reporting thereafter:

- (1) LEED Gold certification;
- (2) Implementation of the IBEC TDM Program; and
- (3) To the extent necessary to achieve the requirement that 50% of the GHG emissions reductions be from local, direct measures, the Applicant has also committed to one or more additional local, direct measures potentially including, but not limited to:

(A) Additional renewable energy production through installation of additional photovoltaic systems as carports on a third parking structure; or

(B) Purchase of electricity for onsite consumption through the Southern California Edison ("SCE") Green Rate which facilitates SCE's purchase of renewable energy to meet the needs of Green rate participants from solar renewable developers within the SCE service territory, SCE's Community Renewables Program, similar opportunities for renewable electricity that could emerge in the future or, if available after approval by applicable regulatory agencies, on-site use of renewable natural gas ("Renewable Energy").

As provided in Public Resources Code Section 21168.6.8 and set forth in the AB 987 Application, after satisfaction of the 50% local, direct standard, the Applicant will achieve the additional GHG emission reductions necessary to achieve the remaining reductions required under the AB 987 Application's calculations through the following: (1) the remaining LEED Gold measures in excess of 50% that under AB 987 would not be considered local, direct measures; (2) the purchase of offset credits; and/or (3) co-benefits from emission reduction measures for nitrogen oxides (NO<sub>x</sub>) and particulate matter with aerodynamic diameter less than 2.5 microns (PM<sub>2.5</sub>).

The AB 987 Application's Project GHG emissions calculations are supported by substantial evidence, including detailed analyses based on reasonable projections of the number of market-shifted versus net new events at the Project Arena and associated backfill of vacated event days at the Staples Center. These analyses, included as Exhibits 1 and 2 to Attachment 3 of the June 12, 2019, supplemental submittal, were prepared by CSL International, experts in the sports, entertainment, visitor, and convention industries.

Notwithstanding that clarity, at CARB's request, Exhibit A to this commitment letter provides calculations and an emissions reduction methodology for a hypothetical 100% backfill GHG emissions scenario that assumes that 100% of the LA Clippers games and market-shifted non-NBA events moving from existing venues described in the analysis included as Attachment 3, Exhibit 2 to the June 12, 2019, supplemental submittal (the "Existing Venues") to the Project Arena are replaced (*i.e.*, backfilled) with other non-NBA events at the Existing Venues, even though there is no evidence to support any possibility of such a scenario occurring.

Under that hypothetical 100% backfill scenario, the Project would result in an additional 146,052 MT CO<sub>2e</sub> of GHG emissions above the total calculated in the AB 987 Application, for a total of 304,683 MT C<sub>2</sub>O<sub>e</sub> over the 30-year operational life of the Project. The Applicant commits to purchasing sufficient carbon offset credits accounting for a reduction of 73,026 MT CO<sub>2e</sub> of GHG emissions (*i.e.*, 50% of the additional GHG emissions reductions that would be necessary under that hypothetical 100% backfill GHG emissions scenario) prior to the issuance of the final certificate of occupancy for the Project Arena.

The Applicant also commits to the following on- and off-site GHG emissions reduction measures (estimated to achieve 58,227 MT CO<sub>2e</sub> of emissions reductions), which shall be imposed by the City of Inglewood as Project conditions of approval:

### **On-Site Local Direct Measures**

- *IBEC Smart Parking System.* The Applicant shall install systems in the on-site parking structures serving the Project to reduce vehicle circulation and idle time within the structures by more efficiently directing vehicles to available parking spaces.
- *IBEC On-Site Electric Vehicle Charging Stations.* The Applicant shall install a minimum of three hundred and thirty (330) electric vehicle charging stations (EVCS) within the three proposed on-site parking structures serving the Project for use by employees, visitors, event attendees, and the public.
- *IBEC Zero Waste Program.* The Applicant shall implement a waste and diversion program for operations of the Project, with the exception of the hotel, with a goal of reducing landfill waste to zero. Effectiveness of the program shall be monitored annually through the U.S. Environmental Protection Agency's WasteWise program or a similar annual reporting system.
- *Renewable Energy.* The Applicant shall reduce GHG emissions associated with energy demand of the Project Arena that exceeds on-site energy generation capacity by using Renewable Energy during Project operations for a period sufficient to achieve GHG emission reductions equal to approximately 2.5% of the total estimate of GHG emissions that could occur in the hypothetical 100% backfill emissions scenario.

### **Off-Site Local Direct Measures**

- *City of Inglewood Municipal Fleet Vehicles ZEV Replacement.* The Applicant shall enter into an agreement with the City of Inglewood to cover 100% of the cost of replacement of ten (10) municipal fleet vehicles that produce GHG emissions with Zero-Emissions Vehicles (ZEVs) and related infrastructure (e.g., EVCS) for those vehicles prior to the issuance of grading permits.
- *ZEV Replacement of Transit Vehicles Operating Within the City of Inglewood.* The Applicant shall enter into an agreement with the City of Inglewood to cover 100% of the cost of replacement of two (2) transit vehicles that operate within the City of Inglewood

that produce GHG emissions with ZEVs and related infrastructure (e.g., EVCS) for those vehicles prior to issuance of grading permits.

- *Local EV Charging Stations in the City of Inglewood.* Prior to the issuance of grading permits, the Applicant shall enter into agreements to install twenty (20) EVCS at locations in the City of Inglewood. These EVCS will be available for use by the public for charging electric vehicles.
- *City of Inglewood Tree Planting Program.* Prior to the issuance of grading permits, the Applicant shall develop or enter into partnerships with existing organizations to develop a program to plant one thousand (1,000 trees) within the City of Inglewood.

The Applicant shall implement all on-site local, direct measures identified above by the end of the first NBA regular season or June of the first NBA regular season, whichever is later, during which an NBA team has played at the Project Arena. All off-site, local, direct measures identified above must be in excess of any regulatory requirement or any previously planned action by the City of Inglewood that would have occurred otherwise.

The Applicant also has committed to a condition of approval requiring a verification process to confirm that (1) 100% of the actual GHG emissions resulting from the net new events at the Project Arena will be calculated and reduced such that the Net Zero Standard will be met, and (2) the 50% local, direct GHG reduction requirement will be met. This condition of approval will require the Applicant to verify the actual number and attendance of net new versus market shifted events and, if necessary, implement sufficient additional GHG emissions reduction measures, as described below, to ensure compliance with Public Resources Code Section 21168.6.8(b)(5).

The verification process will be conducted (using the same methodology as set forth in the AB 987 Application, or another approach proposed by the Applicant and deemed acceptable by the City of Inglewood and CARB staff) after each year that the Project Arena is operational over the life of the building, as follows:

- Commencing with the first quarter after the first full year of Project Arena operations and annually thereafter, the Applicant shall prepare and submit GHG Verification Reports to the City with a copy provided concurrently to CARB. Our understanding is that CARB may seek to provide input to the City.
- The initial GHG Verification Report shall determine the growth rate of events at the Existing Venues based upon data from 10 years (2014-2023) before the Project Arena becomes operational (the "Growth Rate"). Based on the Growth Rate, the initial GHG Verification Report shall determine the number and attendance of events that would likely have occurred at the Existing Venues without the Project in 2024-2033 ("Without Project Events").
- The GHG Verification Reports shall monitor and report the actual number and attendance of events that occur at the Project Arena and the Existing Venues between 2024-2033, as applicable ("Actual Events"). The annual GHG Verification Reports shall calculate the

difference between the number and attendance of Actual Events and Without Project Events for each year of operations to date, which difference represents the Project Arena's actual incremental effect on the number and attendance of events in the regional market, *i.e.*, at the Project Arena and Existing Venues ("Incremental Events"). The GHG Verification Reports shall then calculate the total incremental GHG emissions attributable to the Project Arena based upon the Incremental Events.

- The Project Arena's incremental effect on the number of events in the regional market is likely to stabilize after the first several years of Project operations, and in later years it is more likely that changes in the regional market for events could occur due to intervening, unrelated causes, such as the closure of an Existing Venue or the opening of new event venues in the region. For those reasons, the calculations of the number of Incremental Events in the GHG Verification Reports for any year after 2033 shall be based upon the number of Incremental Events reported for 2033, or the average number of Incremental Events reported for 2029-2033, whichever is higher.
- Each GHG Verification Report shall include verification that the GHG emissions reduction measures required to achieve the Net Zero Standard and 50% local, direct standards have been implemented, including local, direct measures identified in (a) the AB 987 Application, (b) this letter as additional commitments, and (c) previous GHG Verification Reports. Each GHG Verification Report shall identify the specific measures or strategies implemented and provide a calculation of the GHG emissions reductions achieved.
- Recognizing that the point of the GHG Verification Reports is to provide additional verification of the AB 987 Application's estimates of the GHG emissions from the Project and backfill events at other existing venues resulting from the Project, including from the Incremental Events that would occur, annual reporting of events in the GHG Verification Reports shall be adjusted to reflect or evaluate anomalies that could distort the accurate reporting of net new events attributable to the Project Arena such as the 2028 Olympics and related events, changes to the number or schedule of sports teams using Existing Venues for home games, closure of or major renovations to Existing Venues, or similar circumstances. For example:
  - 2028 Olympic events and related events shall be subtracted from the total of Actual Events.
  - Home games of existing or future sports teams at Existing Venues shall not be included in the totals of Without Project Events, Actual Events, or Incremental Events.
  - If an Existing Venue closes, the number of Without Project Events shall be adjusted to subtract the number of events attributable to that Existing Venue.
  - If an Existing Venue undergoes major renovations, the number of Without Project Events attributable to that Existing Venue shall be adjusted to reflect the



percentage of time during the year covered by the GHG Verification Report during which it was unavailable to host events.

- The GHG Verification Reports shall also include adjustments for any differences after buildout in the square footage of the Project's ancillary uses from the AB 987's Application's assumptions.

If any GHG Verification Report concludes that either (1) the total GHG emissions associated with the Project exceeds the amount addressed by the GHG emission reduction measures committed to in the AB 987 Application and the above additional emissions reduction commitments (*i.e.*, exceeds 289,120 MT CO<sub>2e</sub> of GHG emissions), or (2) GHG emissions reductions expected to be achieved from local, direct measures are below 50% of the total GHG emissions reductions necessary, the Applicant shall achieve additional GHG emissions reductions as necessary to meet the Net Zero Standard and/or the 50% local, direct reduction requirement of AB 987 ("Additional GHG Emissions Reductions"), as follows:

- Any Additional GHG Emissions Reductions (up to the remaining 15,563 MT CO<sub>2e</sub> that would be necessary under the hypothetical 100% backfill scenario) shall be achieved by not less than 50% local, direct GHG emissions reduction measures, which may include, but are not limited to, one or more of the following: energy audits and improvements for local buildings; and/or the purchase and use of Renewable Energy to meet on-site energy demands.
- The Applicant shall implement any additional local, direct measures necessary to achieve any Additional GHG Emissions Reductions within one year after the submittal of such GHG Verification Report.


If any GHG Verification Report concludes that the emissions reductions commitments described above are sufficient to achieve the Net Zero Standard and the 50% local, direct reduction requirement of AB 987, no Additional GHG Emissions Reductions shall be required to be identified in the GHG Verification Report or implemented. Any amount of GHG emissions reductions achieved that exceed the amount required to meet the Net Zero Standard and the 50% local, direct reduction requirement shall be credited toward future years and such credit shall be reflected in subsequent GHG Verification Reports. For example, the amount of renewable energy purchased as local, direct measures could be adjusted downward accordingly in future years, or such credit could be applied toward any shortfalls in achieving emissions reductions identified in subsequent verification reports.

With respect to carbon offset credits, the Applicant will, to the extent feasible, place the highest priority on the purchase of offset credits that produce emission reduction within the City or the boundaries of the South Coast Air Quality Management District. Carbon offset credits will be verified by a third party accredited by ARB, such as the American Carbon Registry, Climate Action Reserve, and Verra Carbon Standard. Carbon offset credits shall be purchased at a net present value although the contracts could propose acquiring the credits in advance of the emission-generating activities to be offset.

Contracts to purchase carbon offset credits for construction emissions will be entered into prior to the issuance of grading permits, and contracts to purchase carbon offset credits for operational emissions will be entered into prior to the issuance of the final certificate of occupancy for the Project Arena. Copies of the contract(s) shall promptly be provided to ARB, the Governor's office, and the City of Inglewood to verify that construction and operational emissions have been offset. Such contracts shall evidence the purchase of carbon credits in an amount sufficient to offset the remaining (after the GHG emissions reductions achieved through local, direct measures, LEED Gold measures, and co-benefits of NOx and PM2.5 emissions reduction measures) operational emissions.

Sincerely,

Murphy's Bowl LLC  
a Delaware limited liability company

  
By: Brandt Vaughan  
Its: Manager

## Exhibit A

At CARB's request, we are providing the following hypothetical example of a 100% backfill GHG emissions scenario over a 30-year operational period that assumes that 100% of the LA Clippers games and market-shifted non-NBA events moving from Existing Venues to the Project Arena are replaced (*i.e.*, backfilled) with other non-NBA events at the Existing Venues. There is no evidence to support the possibility that this hypothetical 100% backfill scenario could occur.

As shown in Table 1 below, total net new direct Project emissions from construction and operation and indirect Project emissions that could result from 100% backfill in this hypothetical 100% backfill GHG emissions scenario are estimated to be 304,683 MT C<sub>2</sub>O<sub>e</sub> over the 30-year operational life of the Project.

Table 1. Hypothetical 100% Backfill Emissions Scenario Net New Emissions

Year	IBEC Net New Emissions <sup>a</sup> [MT CO <sub>2</sub> e]	Additional Emissions for Hypothetical 100% Backfill Emissions Scenario <sup>b</sup> (MT CO <sub>2</sub> e)	Net Emissions Hypothetical 100% Backfill Emissions Scenario <sup>c</sup> (MT CO <sub>2</sub> e)
2021	2,625	-	2,625
2022	7,164	-	7,164
2023	6,228	-	6,228
2024	6,398	3,437	9,835
2025	10,852	6,936	17,788
2026	10,177	6,687	16,864
2027	9,572	6,457	16,029
2028	9,027	6,241	15,268
2029	8,533	6,038	14,571
2030	8,084	5,847	13,931
2031	7,505	5,674	13,179
2032	6,933	5,501	12,434
2033	6,395	5,338	11,733
2034	5,889	5,183	11,072
2035	5,413	5,035	10,448
2036	4,965	4,893	9,858
2037	4,542	4,759	9,301
2038	4,142	4,629	8,771
2039	3,760	4,505	8,265
2040	3,395	4,384	7,779
2041	3,044	4,268	7,312
2042	2,704	4,154	6,858
2043	2,374	4,042	6,416
2044	2,051	3,932	5,983
2045	1,733	3,823	5,556
2046	1,715	3,818	5,533
2047	1,700	3,814	5,514
2048	1,688	3,811	5,499
2049	1,678	3,809	5,487
2050	1,669	3,807	5,476
2051	1,669	3,807	5,476
2052	1,669	3,807	5,476
2053	1,669	3,807	5,476
2054	1,669	3,807	5,476
<b>TOTAL</b>	<b>158,631</b>	<b>146,052</b>	<b>304,683</b>

Notes: Totals may not add due to rounding

<sup>a</sup> IBEC Project AB 987 Application, June 12, 2019, Supplemental Materials, Attachment 3: IBEC Project Greenhouse Gas Analysis Supplemental Technical Memorandum, Table 10. Net new IBEC Project emissions calculations include backfill of existing the LA Clippers offices and seven vacated LA Clippers event days at Staples Center.

<sup>b</sup> Additional Emissions include backfill of all additional vacated LA Clippers event days at Staples Center (40) and backfill of all market-shifted events (135).

<sup>c</sup> Net Emissions Hypothetical 100% Backfill Emissions Scenario includes backfill of existing LA Clippers offices and all vacated LA Clippers event days at Staples Center (47) and all market-shifted events (133). See Attachment 1: IBEC Project Calculation of Net Emissions – Hypothetical 100% Backfill GHG Emissions Scenario.

Under this hypothetical 100% backfill emissions scenario, the GHG emission reductions that would be required for the Project to achieve the Net Zero Standard and 50% local, direct requirement under AB 987 would increase, as shown in Table 2 below:

**Table 2. Hypothetical 100% Backfill Emissions Scenario and AB 987 Emissions Reduction Requirements**

<b>Emissions Conditions and Reductions</b>	<b>Emissions Estimates (MT CO<sub>2</sub>e)</b>	<b>Percent of Emissions</b>
<b>IBEC Project Total Net New Emissions</b>	<b>158,631<sup>a</sup></b>	<b>100%</b>
GHG Emissions Reductions from Local, Direct Measures for IBEC Project Net New Emissions	79,316 <sup>a</sup>	50%
GHG Emissions Reductions from Offset Credits for IBEC Project Net New Emissions	79,315 <sup>a</sup>	50%
<b>Additional Net New Emissions, Hypothetical 100% Backfill Emissions Scenario</b>	<b>146,052</b>	<b>100%</b>
GHG Emissions Reductions from Local, Direct Measures for Additional Hypothetical 100% Backfill Emissions Scenario Emissions	73,026	50%
GHG Emissions Reductions from Offset Credits for Additional Hypothetical 100% Backfill Emissions Scenario Emissions	73,026	50%
<b>Total Net New Emissions, Hypothetical 100% Backfill Emissions Scenario</b>	<b>304,683</b>	<b>100%</b>
GHG Emissions Reductions from Local, Direct Measures for Total Net New Emissions, Hypothetical 100% Backfill Emissions Scenario	152,342	50%
GHG Emissions Reductions from Offset Credits for Total Net New Emissions, Hypothetical 100% Backfill Emissions Scenario	152,341	50%
<i>Notes: Totals may not add due to rounding</i>		
<sup>a</sup> IBEC Project AB 987 Application, June 12, 2019, Supplemental Materials, Attachment 3: IBEC Project Greenhouse Gas Analysis Supplemental Technical Memorandum, Table 16		

The total 304,683 MT CO<sub>2</sub>e of net new GHG emissions that could occur in the hypothetical 100% backfill emissions scenario represents an increase of 146,052 MT CO<sub>2</sub>e of GHG emissions above the total net new emissions of 158,631 MT CO<sub>2</sub>e estimated in the AB 987 Application. In

accordance with the requirements of AB 987, this would require an additional 73,026 MT CO<sub>2e</sub> of GHG emissions reductions to be achieved through local, direct measures and additional reductions of 73,026 MT CO<sub>2e</sub> to be achieved through carbon offset credits.

The following is a set of local, direct measures that either the Applicant has already committed to implement as set forth in the commitment letter accompanied by this Exhibit to achieve 58,227 MT CO<sub>2e</sub> of the additional GHG emissions reductions from local, direct measures on-site and within the City of Inglewood and neighboring communities that would be necessary under that hypothetical, 100% backfill GHG emissions scenario, and a quantification of the GHG emissions reductions that each measure would achieve:

#### **On-Site Local Direct Reduction Measures**

- **Smart Parking:** Design and integrate a smart parking system to reduce idling time in the three parking structures included in the Project with a total capacity of 4,125 self-park spaces, reducing GHG and other mobile emissions on-site. (Estimated GHG emissions reductions of 1,480 MT CO<sub>2e</sub> over 30 years).
- **On-Site Electric Vehicle Charging:** Install a minimum 330 electric vehicle charging stations (EVCS) within the three parking structures serving the Project. (Estimated GHG emissions reductions of 13,918 MT CO<sub>2e</sub> over 30 years).
- **Zero Waste Program:** Implement a waste and diversion program for operations of the Project, with the exception of the hotel, with a goal of reducing landfill waste to zero. Effectiveness of the program shall be monitored annually through the U.S. EPA's WasteWise program or a similar annual reporting system. (Estimated GHG emissions reductions of 31,587 MT CO<sub>2e</sub> over 30 years).
- **Renewable Energy:** Reduce GHG emissions associated with energy demand of the Project that exceeds on-site energy generation capacity by using Renewable Energy for a period sufficient to achieve GHG emission reductions equal to approximately 2.5% of the total estimate of GHG emissions that could occur in the hypothetical 100% backfill emissions scenario. (Estimated GHG emissions reductions of 7,617 MT CO<sub>2e</sub>).

#### **City of Inglewood Local Direct Reduction Measures**

- **Conversion to Zero-Emissions Vehicles (ZEVs)**
  - Transit ZEVs: Replacement of two local transit vehicles to operate within the City of Inglewood with ZEVs and provision of charging infrastructure. (Estimated GHG emissions reductions of 597 MT CO<sub>2e</sub> over 10 years).
  - Municipal Fleet ZEVs: Replacement of 10 local City of Inglewood municipal fleet vehicles with ZEVs. (Estimated GHG emissions reductions of 299 MT CO<sub>2e</sub> over 10 years).
- **EVCS Infrastructure:** Support adoption of ZEVs by facilitating installation of 20 EVCS in publicly accessible locations in the City of Inglewood. (Estimated GHG emissions reductions of 2,029 MT CO<sub>2e</sub> over 10 years).

- **Add Carbon Sequestration Capacity (Tree Planting):** Develop or enter into partnerships with existing organizations to develop a program to plant one thousand (1,000) trees within the City of Inglewood. (Estimated GHG emissions reductions of 700 CO<sub>2</sub>e MT over 20 years).

Application of measures described above, some or all of which could be substituted with other technologies or strategies to reduce GHG emissions that may emerge in the future<sup>1</sup>, would achieve, together with the local direct measures and carbon offset credits identified in the AB 987 Application and the additional carbon offset credits that the Applicant has committed to purchase pursuant to the commitment letter to which this Exhibit is attached, approximately 95% (*i.e.*, 289,120 MT CO<sub>2</sub>e) of the emissions reductions that would be necessary under the hypothetical 100% backfill emissions scenario.

If any additional emissions reductions are shown to be necessary pursuant to an annual GHG Verification Report, that report would identify and require implementation of additional local, direct GHG emissions reduction measures to achieve those reductions. A demonstration of how such additional local direct measures, in combination with those identified above, could achieve the 50% local, direct requirement under the hypothetical 100% backfill emissions scenario is provided in Table 3 below:

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<sup>1</sup> If the Applicant proposes to substitute other GHG emissions reduction measures to replace any local, direct measures that the Applicant has committed, in the commitment letter to which this Exhibit is attached, to implement prior to the issuance of grading permits or by the end of the first NBA season or June of the first NBA season, Applicant shall obtain the City of Inglewood's and CARB's approval for such substitution.

Table 3. Hypothetical 100% Backfill Emissions Scenario:  
Summary of Potential GHG Emissions Reductions from Local, Direct Measures

Local Direct Measure	Committed or Potential Measure	Implementation	Emissions Reductions (MT CO <sub>2e</sub> )
Renewable Energy	Committed	Reduce GHG emissions associated with energy demand of the Project that exceeds on-site energy generation capacity by using Renewable Energy for a period sufficient to achieve GHG emission reductions equal to approximately 2.5% of the total estimate of GHG emissions that could occur in the hypothetical 100% backfill emissions scenario.	7,617
Waste Reduction and Diversion	Committed	Implement a waste reduction and diversion program for the Project, with the exception of the hotel, with a goal of producing zero landfill waste.	31,587
Smart Parking	Committed	Install Smart Parking system in all IBEC Project parking structures.	1,480
On-Site EVCS	Committed	Install 330 electric vehicle charging stations in IBEC Project parking structures.	13,918
Transit ZEVs	Committed	Purchase 2 shuttles for local transit service within City of Inglewood (10-year operational life).	597
Municipal Fleet ZEVs	Committed	Purchase 10 ZEVs for municipal fleet (10-year operational life).	299
Neighborhood EVCS	Committed	Install 20 EVCS accessible to local EV drivers in the City of Inglewood.	2,029
Tree Planting	Committed	Implement local program to plant 1,000 trees.	700
Additional Renewable Energy	Potential	Purchase and use renewable energy for Project operations as necessary to achieve additional reductions.	15,563
<b>Total</b>			<b>73,790</b>

*Notes: Totals may not add due to rounding*

*See Attachment 2: IBEC Project Calculation of GHG Emissions Reductions – Local, Direct Measures*

As shown in Table 4 below, application of these additional local direct measures would be sufficient to meet the local, direct measure requirements of AB 987 in the hypothetical 100% backfill emissions scenario.



Table 4. Summary of Local, Direct Emissions Reductions, Hypothetical 100% Backfill Emissions Scenario

Local Direct Measurements Requirements and Reductions	MT CO <sub>2e</sub>
GHG Emissions Reductions Required from Local, Direct Measures for Total Net New Emissions, Hypothetical 100% Backfill Emissions Scenario	152,342
50% of Total Emissions Reductions from LEED Gold Qualifying as Local Direct Measures	3,755 <sup>a</sup>
Total Reductions from IBEC TDM Program	74,797 <sup>a</sup>
Total Reductions Through Other Committed Local Direct GHG Reductions	58,227
Total Potential Reductions Through Additional Local Direct GHG Reductions	15,563
Total Potential Reductions from Local, Direct Measures	152,342
<p><i>Notes: Totals may not add due to rounding</i></p> <p><i><sup>a</sup> IBEC Project AB 987 Application, June 12, 2019, Supplemental Materials, Attachment 3: IBEC Project Greenhouse Gas Analysis Supplemental Technical Memorandum, Table 16</i></p>	

**ATTACHMENT 1**

**IBEC Project**

**Calculation of Net Emissions**

**Hypothetical 100% Backfill GHG Emissions Scenario**

Net GHG Emissions Summary: Proposed RBEC Project - Hypothetical 100% Backfill GHG Emissions Scenario

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
Hypothetical 100% Backfill GHG Emissions Scenario	Emissions Source																		
	Construction	3,834	8,573	7,437	1,188														
	Project Operations				11,896	23,344	21,945	22,824	21,482	11,020	20,593	20,593	19,480	18,367	18,273	18,015	17,533	17,177	
	Backfill Operations				3,968	7,833	7,359	7,304	7,265	6,880	6,827	6,514	6,243	6,083	5,886	5,722	5,540	5,414	
	Total Project Emissions (Indirect + Direct)	3,834	8,573	7,437	17,064	31,877	30,154	29,318	28,748	17,900	27,417	27,206	26,560	25,771	25,027	24,361	23,787	23,149	22,890
	Existing Operations (2018)	1,289	1,289	1,289	1,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289
NET GHG EMISSIONS	2,545	7,284	6,148	9,835	17,708	16,864	16,029	15,459	4,611	14,128	13,917	13,271	12,482	11,738	11,072	10,488	9,858	9,601	
Cumulative Total	2,625	9,789	16,014	25,851	43,659	60,523	76,552	91,804	106,371	120,500	133,487	145,811	157,640	168,710	179,187	189,076	198,326		
GHG Emissions without TDM and without Project Design Features	Emissions Source																		
	Construction																		
	Project Operations																		
	Backfill Operations	5,169	9,129	8,992	8,862	8,733	8,607	8,480	8,361	8,238	8,120	7,999	7,886	7,771	7,654	7,535	7,414	7,291	7,167
	Total Project Emissions (Indirect + Direct)	16,797	19,426	18,875	15,739	15,414	15,096	14,785	14,485	14,187	13,892	13,600	13,311	13,025	12,741	12,459	12,179	11,901	11,625
	Existing Operations (2018)	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289	13,289
NET GHG EMISSIONS	3,508	6,137	5,586	2,450	2,125	1,807	1,496	1,196	898	603	311	222	133	42	140	140	140	140	
Cumulative Total	297,869	315,303	223,142	230,454	257,317	283,727	309,710	335,267	360,686	386,314	412,054	437,907	463,874	489,954	516,148	542,457	568,881		

Net GHG Emissions Summary: Variant - Hypothetical 100% Backfill GHG Emissions Scenario

Project Condition		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Hypothetical 100% Backfill GHG Emissions Scenario	Emissions Source																	
	Construction	3,860	8,373	7,437	1,880													
	Project Operations				11,990	23,234	22,985	22,612	21,892	21,020	20,593	20,203	19,480	18,961	18,273	18,019	17,533	17,177
	Backfill Operations				3,900	7,833	7,598	7,384	7,067	6,840	6,627	6,433	6,243	6,061	5,880	5,721	5,563	5,413
	Total Project Emissions (Indirect + Direct)	3,860	8,373	7,437	17,064	31,077	30,583	29,996	28,959	27,861	27,220	26,268	25,723	25,022	24,361	23,737	23,148	22,588
	Existing Operations (2012)	1,269	1,269	1,269	1,269	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
NET GHG EMISSIONS	2,591	7,104	6,168	9,795	17,728	16,805	15,989	15,299	14,512	13,871	13,119	12,374	11,673	11,012	10,389	9,789	9,243	
GHG Emissions without TDM and without Project Design Features	2,591	7,104	6,168	9,795	17,728	16,805	15,989	15,299	14,512	13,871	13,119	12,374	11,673	11,012	10,389	9,789	9,243	
Emissions Source																		
Construction		2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Project Operations		16,797	16,426	16,075	15,739	15,414	15,098	14,789	14,485	14,187	13,892	13,600	13,311	13,027	12,747	12,472	12,202	11,937
Backfill Operations		5,169	5,129	5,092	5,062	5,033	5,007	4,982	4,961	4,942	4,922	4,903	4,886	4,872	4,859	4,847	4,837	4,828
Total Project Emissions (Indirect + Direct)		22,061	21,525	21,086	20,693	20,347	19,995	19,727	19,446	19,182	18,922	18,689	18,466	18,256	18,066	17,889	17,724	17,565
Existing Operations (2012)		13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349	13,349
NET GHG EMISSIONS		8,712	8,206	7,737	7,344	6,998	6,646	6,377	6,097	5,833	5,573	5,340	5,137	4,957	4,790	4,635	4,491	4,352
Cumulative Total		208,057	214,263	221,083	228,435	236,054	243,991	248,314	253,011	259,082	264,741	270,181	275,608	281,026	286,443	291,860	297,277	302,694

**Backfilled Operational Emissions**

**Total Backfilled Emissions by Year**

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Clippers Event Nights + Office + MS Events	7,799.64	7,833.13	7,558.99	7,303.88	7,065.17	6,840.20	6,627.47	6,434.40	6,242.93	6,061.03	5,887.66	5,722.46	5,564.54	5,413.60	5,268.67

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Clippers Event Nights + Office + MS Events	5,128.88	4,993.44	4,861.95	4,733.47	4,607.47	4,483.52	4,360.95	4,355.81	4,351.70	4,348.37	4,345.59	4,343.24	4,343.24	4,343.24	4,343.24	4,343.24

**Clippers Event Days Backfilled at Staples**

47

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	876.86	845.31	813.76	782.21	750.66	719.11	687.56	656.01	624.46	592.90	561.35	529.80	498.25	466.70	435.15
Area	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mobile (On-Road)	2,489.37	2,389.82	2,304.66	2,229.76	2,163.70	2,105.04	2,052.98	2,011.51	1,970.90	1,935.45	1,904.60	1,878.14	1,855.62	1,836.85	1,821.32
Solid Waste	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80
Water	430.72	415.84	400.96	386.08	371.20	356.31	341.43	326.55	311.67	296.79	281.91	267.03	252.15	237.27	222.38
<b>Total</b>	<b>3,927.76</b>	<b>3,781.77</b>	<b>3,650.18</b>	<b>3,528.85</b>	<b>3,416.36</b>	<b>3,311.27</b>	<b>3,212.77</b>	<b>3,124.87</b>	<b>3,037.83</b>	<b>2,955.95</b>	<b>2,878.66</b>	<b>2,805.78</b>	<b>2,736.82</b>	<b>2,671.62</b>	<b>2,609.66</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	403.60	372.05	340.50	308.95	277.40	245.85	214.29	214.29	214.29	214.29	214.29	214.29	214.29	214.29	214.29	214.29
Area	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mobile (On-Road)	1,808.56	1,798.15	1,789.86	1,783.19	1,777.87	1,773.64	1,770.16	1,767.39	1,765.18	1,763.38	1,761.88	1,760.62	1,760.62	1,760.62	1,760.62	1,760.62
Solid Waste	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80	130.80
Water	207.50	192.62	177.74	162.86	147.98	133.10	118.22	118.22	118.22	118.22	118.22	118.22	118.22	118.22	118.22	118.22
<b>Total</b>	<b>2,550.47</b>	<b>2,493.62</b>	<b>2,438.90</b>	<b>2,385.80</b>	<b>2,334.05</b>	<b>2,283.39</b>	<b>2,233.48</b>	<b>2,230.71</b>	<b>2,228.49</b>	<b>2,226.70</b>	<b>2,225.20</b>	<b>2,223.94</b>	<b>2,223.94</b>	<b>2,223.94</b>	<b>2,223.94</b>	<b>2,223.94</b>

**Backfilled Office**

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	92.58	88.80	85.03	81.25	77.47	73.70	69.92	66.14	62.36	58.59	54.81	51.03	47.26	43.48	39.70
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	215.89	214.07	212.26	210.44	208.63	206.81	205.00	203.18	201.36	199.55	197.73	195.92	194.10	192.28	190.47
Solid Waste	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29
Water	23.15	22.27	21.40	20.53	19.65	18.78	17.91	17.03	16.16	15.29	14.41	13.54	12.67	11.79	10.92
<b>Total</b>	<b>340.91</b>	<b>334.44</b>	<b>327.98</b>	<b>321.51</b>	<b>315.04</b>	<b>308.58</b>	<b>302.11</b>	<b>295.64</b>	<b>289.17</b>	<b>282.71</b>	<b>276.24</b>	<b>269.78</b>	<b>263.31</b>	<b>256.84</b>	<b>250.38</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	35.92	32.15	28.37	24.59	20.82	17.04	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile (On-Road)	188.65	186.84	185.02	183.20	181.39	179.57	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76	177.76
Solid Waste	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29
Water	10.05	9.17	8.30	7.43	6.55	5.68	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80
<b>Total</b>	<b>243.91</b>	<b>237.44</b>	<b>230.98</b>	<b>224.51</b>	<b>218.04</b>	<b>211.58</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>	<b>205.11</b>

**MS Backfilled at other LA Venues**

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	876.86	1,162.58	1,113.95	1,065.32	1,016.69	968.06	919.43	870.79	822.16	773.53	724.90	676.27	627.64	579.00	530.37
Area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile (On-Road)	2,130.32	2,045.13	1,972.25	1,908.15	1,851.62	1,801.42	1,756.87	1,721.38	1,686.63	1,656.29	1,629.89	1,607.25	1,587.97	1,571.91	1,558.62
Solid Waste	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26
Water	409.53	394.95	380.36	365.78	351.20	336.62	322.03	307.45	292.87	278.29	263.71	249.12	234.54	219.96	205.38
<b>Total</b>	<b>3,530.97</b>	<b>3,716.92</b>	<b>3,580.83</b>	<b>3,453.52</b>	<b>3,333.77</b>	<b>3,220.36</b>	<b>3,112.59</b>	<b>3,013.89</b>	<b>2,915.92</b>	<b>2,822.37</b>	<b>2,732.76</b>	<b>2,646.91</b>	<b>2,564.41</b>	<b>2,485.14</b>	<b>2,408.64</b>

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	481.74	433.11	384.48	335.85	287.22	238.58	189.95	189.95	189.95	189.95	189.95	189.95	189.95	189.95	189.95	189.95
Area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile (On-Road)	1,547.70	1,538.79	1,531.70	1,526.00	1,521.44	1,517.82	1,514.85	1,512.47	1,510.58	1,509.04	1,507.76	1,506.68	1,506.68	1,506.68	1,506.68	1,506.68
Solid Waste	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26	114.26
Water	190.79	176.21	161.63	147.05	132.47	117.88	103.30	103.30	103.30	103.30	103.30	103.30	103.30	103.30	103.30	103.30
<b>Total</b>	<b>2,334.50</b>	<b>2,262.38</b>	<b>2,192.07</b>	<b>2,123.15</b>	<b>2,055.38</b>	<b>1,988.55</b>	<b>1,922.36</b>	<b>1,919.99</b>	<b>1,918.10</b>	<b>1,916.56</b>	<b>1,915.28</b>	<b>1,914.20</b>	<b>1,914.20</b>	<b>1,914.20</b>	<b>1,914.20</b>	<b>1,914.20</b>

Note  
Units are in MT CO<sub>2</sub>e.





Honda Center - Orange County, Annual

**Honda Center**  
**Orange County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	650.00	1000sqft	208.93	650,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2045
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

**1.3 User Entered Comments & Non-Default Data**



Honda Center - Orange County, Annual

Project Characteristics - Honda Center operational emissions. CO<sub>2</sub>e rate assumed to be 0 per RPS goals in 2045.

Land Use - Based Honda Center square footage

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emissions only.

Architectural Coating - Operational emissions only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Based on actual energy consumption provided in Honda Center Enhancement Project EIR

Solid Waste - Solid waste generation based on 1.29 ton/1000 sq ft.

## Honda Center - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	325,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	975,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.99	10.43
tblEnergyUse	NT24E	3.83	13.35
tblEnergyUse	NT24NG	6.86	6.57
tblEnergyUse	T24E	1.63	5.68
tblEnergyUse	T24NG	14.04	13.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1543.28	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	17.89	838.50
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Honda Center - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6508	7.0000e-005	8.2400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	0.0000	88.8313	9.1238	0.2154	381.1259
<b>Total</b>	<b>2.7211</b>	<b>0.6396</b>	<b>0.5454</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>696.1737</b>	<b>955.2129</b>	<b>19.1962</b>	<b>0.2282</b>	<b>1,503.1205</b>

Honda Center - Orange County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6508	7.0000e-005	8.2400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	0.0000	88.8313	9.1238	0.2154	381.1259
<b>Total</b>	<b>2.7211</b>	<b>0.6396</b>	<b>0.5454</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>0.0486</b>	<b>0.0486</b>	<b>259.0392</b>	<b>696.1737</b>	<b>955.2129</b>	<b>19.1962</b>	<b>0.2282</b>	<b>1,503.1205</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/23/2019	2/22/2019	5	0	
2	Architectural Coating	Architectural Coating	9/15/2040	9/14/2040	5	0	

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
NaturalGas Unmitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945

Honda Center - Orange County, Annual

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
<b>Total</b>		<b>0.0703</b>	<b>0.6395</b>	<b>0.5372</b>	<b>3.8400e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>696.1576</b>	<b>696.1576</b>	<b>0.0133</b>	<b>0.0128</b>	<b>700.2945</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Honda Center - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6508	7.0000e-005	8.2400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Unmitigated	2.6508	7.0000e-005	8.2400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.2400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6508</b>	<b>7.0000e-005</b>	<b>8.2400e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>



Honda Center - Orange County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.2400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
<b>Total</b>	<b>2.6508</b>	<b>7.0000e-005</b>	<b>8.2400e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0172</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Honda Center - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	88.8313	9.1238	0.2154	381.1259
Unmitigated	88.8313	9.1238	0.2154	381.1259

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	88.8313	9.1238	0.2154	381.1259
<b>Total</b>		<b>88.8313</b>	<b>9.1238</b>	<b>0.2154</b>	<b>381.1259</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.0017 17.8724	88.8313	9.1238	0.2154	381.1259
<b>Total</b>		<b>88.8313</b>	<b>9.1238</b>	<b>0.2154</b>	<b>381.1259</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.2079	10.0590	0.0000	421.6829
Unmitigated	170.2079	10.0590	0.0000	421.6829

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
<b>Total</b>		<b>170.2079</b>	<b>10.0590</b>	<b>0.0000</b>	<b>421.6829</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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**The Forum Emissions**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	346.00	1000sqft	111.21	346,000.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2045
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Backfilled emissions at The Forum. SCE CO2e intensity rate assumed to be 0 in 2045.

Land Use - Based on actual square footage.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Renovated in 2014. CalEEMod defaults for energy usage.

Solid Waste - Based on 1.29 tons/1000 sq ft.

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	173,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	519,000.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	9.52	446.34
tblTripsAndVMT	WorkerTripNumber	29.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational  
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4110	4.0000e-005	4.3900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1400e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	0.0000	47.2856	4.8567	0.1147	202.8763
<b>Total</b>	<b>1.4500</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8886</b>	<b>385.9036</b>	<b>523.7922</b>	<b>10.2186</b>	<b>0.1218</b>	<b>815.5387</b>

The Forum Emissions - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4110	4.0000e-005	4.3900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1400e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	368.1882
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	0.0000	47.2856	4.8567	0.1147	202.8763
<b>Total</b>	<b>1.4500</b>	<b>0.3545</b>	<b>0.3022</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>0.0270</b>	<b>0.0270</b>	<b>137.8888</b>	<b>385.9036</b>	<b>523.7922</b>	<b>10.2188</b>	<b>0.1218</b>	<b>815.5387</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/6/2018	10/5/2018	5	0	
2	Architectural Coating	Architectural Coating	2/19/2033	2/18/2033	5	0	

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
NaturalGas Unmitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882

The Forum Emissions - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
<b>Total</b>		<b>0.0390</b>	<b>0.3545</b>	<b>0.2978</b>	<b>2.1300e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>	<b>0.0000</b>	<b>385.8950</b>	<b>385.8950</b>	<b>7.4000e-003</b>	<b>7.0700e-003</b>	<b>388.1882</b>

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**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Forum Emissions - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4110	4.0000e-005	4.3900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1400e-003
Unmitigated	1.4110	4.0000e-005	4.3900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1400e-003
<b>Total</b>	<b>1.4110</b>	<b>4.0000e-005</b>	<b>4.3900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1400e-003</b>

The Forum Emissions - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1400e-003
<b>Total</b>	<b>1.4110</b>	<b>4.0000e-005</b>	<b>4.3900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1400e-003</b>

7.0 Water Detail

7.1 Mitigation Measures Water

The Forum Emissions - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	47.2856	4.8567	0.1147	202.8763
Unmitigated	47.2856	4.8567	0.1147	202.8763

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	47.2856	4.8567	0.1147	202.8763
<b>Total</b>		<b>47.2856</b>	<b>4.8567</b>	<b>0.1147</b>	<b>202.8763</b>



The Forum Emissions - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.0467 9.5136	47.2856	4.8567	0.1147	202.8763
<b>Total</b>		<b>47.2856</b>	<b>4.8567</b>	<b>0.1147</b>	<b>202.8763</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6030	5.3545	0.0000	224.4651
Unmitigated	90.6030	5.3545	0.0000	224.4651

The Forum Emissions - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
<b>Total</b>		<b>90.6030</b>	<b>5.3545</b>	<b>0.0000</b>	<b>224.4651</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Forum Emissions - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**ATTACHMENT 2**  
**IBEC Project**  
**Calculation of GHG Emissions Reductions**  
**Local, Direct Measures**

## Table of Contents

Summary .....	1
Electric Vehicles for Inglewood Local Transit .....	2
Electric Vehicles for City of Inglewood Vehicle Fleet .....	3
Tree Planting Program for City of Inglewood .....	4
Local Electric Vehicle Charging Stations in the City of Inglewood .....	5
IBEC On-Site Waste Reduction and Diversion Program.....	8
IBEC On-Site Electric Vehicle Charging Stations .....	10
IBEC On-Site Smart Parking .....	15
IBEC On-Site Use of Renewable Energy .....	19
CalEEMod Outputs for Waste Reduction and Diversion .....	21

## Summary

For each local direct measure, GHG emissions reductions were estimated based on the best available information and commonly accepted calculation methodologies using conservative approaches and assumptions where appropriate. Emission reductions were quantified on a per unit basis, with anticipated reductions estimated based on the number of units planned for implementation (example: number of electric vehicles to replace fossil-fueled vehicles). Timeframes and assumed operational periods used to calculate emissions reductions for each measure are stated below, assuming project construction begins in 2021 and proposed IBEC Project operations begin in July 2024.

The GHG reduction measures evaluated included:

- Off-site local direct measures, accounting for emissions reductions based upon a conservatively anticipated useful life for each measure; and
- On-site actions for the IBEC proposed Project, accounting for emissions reductions over the 30-year operational life through 2054 of the proposed IBEC Project as analyzed in the AB 987 Application.

Results for each measure are presented as reduction in metric tons of carbon dioxide equivalent (MT CO<sub>2</sub>e) over the anticipated lifetime of each measure.

Measure	Total MT CO <sub>2</sub> e Reduced
Electric Vehicles for Inglewood Local Transit Vehicles	597
Electric Vehicles for City of Inglewood Vehicle Fleet	299
Tree Planting Program for City of Inglewood	700
Local Electric Vehicle Charging Stations in the City of Inglewood	2,029
IBEC On-Site Waste Reduction and Diversion Program	31,587
IBEC On-Site Electric Vehicle Charging Stations	13,918
IBEC On-Site Smart Parking	1,480
IBEC On-Site Use of Renewable Electric Power	Up to 52,889
IBEC On-Site Use of Renewable Natural Gas	Up to 30,827

As necessary, GHG calculations for each measure applied global warming potentials consistent with the California Air Resources Board (CARB) GHG Reporting Program for data years 2021 and beyond:

Greenhouse Gas	Global Warming Potential
CO <sub>2</sub>	1
CH <sub>4</sub>	25
N <sub>2</sub> O	298

Each GHG reduction measure explanation includes a brief summary of the measure, key assumptions made, and the calculation methodology employed. Annual and/or per unit breakdowns of GHG reductions are provided in this document as appropriate for a given measure. For each reduction measure, details regarding the calculation methodologies, formulas, and emissions factors are included in the tables accompanying the description of each measure.

## Electric Vehicles for Inglewood Local Transit

The Applicant will enter into an agreement with the City of Inglewood to cover 100% of the cost of replacement of two transit vehicles that operate within the City of Inglewood with Electric Vehicles (EVs) prior to the issuance of grading permits for the IBEC Project. The replacement of transit vehicles with EV vehicles shall be in excess of any applicable regulatory requirement, including CARB's Innovative Clean Transit program, or any previously-planned action by the City of Inglewood that would have occurred otherwise.

### Estimated Results

The GHG reductions estimated for this measure are as follows:

Timeframe and Number of Units	MT CO <sub>2</sub> e Reduced
Annual emissions reductions per electric transit vehicle	29.8
2021-2030 emissions reductions per electric transit vehicle	298.4
2021-2030 emissions reductions achieved from two electric transit vehicles	597

### Assumptions

Parameter	Assumption
Inglewood transit vehicles replaced	One local service transit shuttle One paratransit shuttle
Fuel used in current transit vehicles to be replaced	CNG
Annual miles driven per transit vehicle <sup>1</sup>	23,000
Years of transit vehicle use included	10
Model year of transit vehicle replaced	2021

### Calculation Methodology

Based on these assumptions, emissions reductions were calculated using the following emissions factor for a T6 weight class (Department of Transportation vehicle class 4 – 7) CNG shuttle, obtained from the California Air Resources Board (CARB) Summary of Emissions Inventory Analysis for the Zero-Emission Airport Shuttle Regulation<sup>2</sup>

Greenhouse Gas	Emission Factors (grams/mile)
CO <sub>2</sub>	1,300

This represents a conservative estimate of reductions, as the source reference does not provide CH<sub>4</sub> or N<sub>2</sub>O emission factors for CNG use.

<sup>1</sup> Local transit vehicles to be replaced with EV shuttle vehicles include the vehicle used for the local transit service in the City of Inglewood (average annual miles traveled estimated at 23,000 miles based on shuttle route, frequency, and days of operation) and a paratransit vehicle providing service in the City of Inglewood (average annual miles traveled estimated at 23,000 miles, based on U.S. Department of Energy data for average annual miles traveled for paratransit vehicles [23,400 miles]), available at: <https://afdc.energy.gov/data/10309>

<sup>2</sup> California Air Resources Board, *Summary of Emissions Inventory Analysis for the Zero Emission Airport Shuttle Regulation* (2019), available at: [https://ww3.arb.ca.gov/msprog/asb/summary\\_emissions\\_inventory\\_analysis.pdf](https://ww3.arb.ca.gov/msprog/asb/summary_emissions_inventory_analysis.pdf).

## Electric Vehicles for City of Inglewood Vehicle Fleet

The Applicant will enter into an agreement with the City of Inglewood to cover 100% of the cost of replacing 10 fossil-fueled municipal fleet vehicles with Battery Electric Vehicles (BEVs) prior to the issuance of grading permits for the IBEC Project. The replacement of vehicles with EV vehicles shall be in excess of any applicable regulatory requirement, or any previously-planned action by the City of Inglewood that would have occurred otherwise.

### Estimated Results

The GHG reductions estimated for this measure are as follows:

Timeframe and Number of Units	MT CO <sub>2</sub> e Reduced
Annual emissions reductions per electric vehicle	3
2021-2030 emissions reductions per electric vehicle	30
2021-2030 emissions reductions achieved from 10 electric vehicles	299

### Assumptions

Parameter	Assumption
Fuel used in current vehicles to be replaced	Gasoline
Annual miles driven per vehicle <sup>3</sup>	11,000
Years of vehicle usage included	10
Model year of vehicles replaced	2021

### Calculation Methodology

Based on these assumptions, emissions reductions were calculated using the following emissions factors obtained from EMFAC 2017,<sup>4</sup> using the inputs of Light Duty Auto (LDA) vehicle class, 2021 vehicle, operating at 30 miles per hour:

Greenhouse Gas	Emission Factors (grams/mile)
CO <sub>2</sub>	271
CH <sub>4</sub>	0.003
N <sub>2</sub> O	0.005

<sup>3</sup> Based on U.S. Department of Energy data for average miles traveled for light duty vehicles (11,346 miles per year), available at: <https://afdc.energy.gov/data/10309>

<sup>4</sup> California Air Resources Board, EMFAC2017 Web Database, available at: <https://www.arb.ca.gov/emfac/2017/>



## **Tree Planting Program for City of Inglewood**

Prior to the issuance of grading permits for the IBEC Project, the Applicant will develop or partner with local organizations to develop a program to plant 1,000 trees within the City of Inglewood. The tree planting program will cover the cost of the acquisition and planting of the trees in Inglewood.

### **Estimated Results**

The GHG reductions estimated for this measure are as follows:

<b>Timeframe and Number of Units</b>	<b>MT CO<sub>2</sub>e Reduced</b>
Annual emissions reductions per tree	0.035
Emissions reductions per tree, 20-year period per CalEEMod	0.7
Emissions reductions achieved from a 1,000 trees	700

### **Assumptions**

<b>Parameter</b>	<b>Assumption</b>
CalEEMod emissions reductions rate	0.035 MT/tree-year
Growing period	20 years

### **Calculation Methodology**

Based on these assumptions, emissions reductions were calculated using the default emissions reduction factor and 20-year growing period for miscellaneous species class obtained from CalEEMod (see CalEEMod User's Guide Appendix A). The emission reductions for each tree were multiplied by the total number of trees, and then adjusted for the assumed 20-year period as defined in CalEEMod.

## Local Electric Vehicle Charging Stations in City of Inglewood

Prior to the issuance of grading permits for the IBEC Project, the Applicant will enter into agreements to install twenty electric vehicle charging stations (EVCS) at locations in the City of Inglewood. These EVCS will be available in Inglewood for use by the public to charge electric vehicles at the start of construction of the proposed Project.

### Estimated Results

The GHG reductions estimated for this measure are as follows:

Timeframe and Number of Units	MT CO <sub>2</sub> e Reduced
2021-2030 emissions reductions per EVCS	101
2021-2030 emissions reductions achieved from a 20 EVCS	2,029

### Calculation Methodology

The methodology to calculate GHG emissions reductions for this measure is based on a technical analysis produced by the California Air Resources Board in 2018 to study the effectiveness of EVCS, which includes an estimate of the GHG emissions reduction per EVCS.<sup>5</sup> The emissions reduction estimate methodology and calculations per local EVCS are derived from Appendix H, Table H1 of that analysis. Each EVCS is conservatively assumed to be maintained and in operation for 10 years. Using this methodology, the following assumptions and resulting calculated inputs were used to derive the emissions reductions estimates:

Parameter <i>(italicized values were calculated based on parameters listed above them)</i>	Assumption
Years of emissions reductions included (assumed operating life of EVCS)	10
Annual Gasoline-Fueled Vehicle VMT Reduction per EVCS (PHEV)	36,500 <sup>a</sup>
Annual Gasoline-Fueled Vehicle VMT Reduction per EVCS (BEV)	73,000 <sup>a</sup>
<i>Calculated Annual Gasoline-Fueled Vehicle VMT Reduction per EVCS</i>	<i>54,750<sup>b</sup></i>
Fuel Economy of an EV (kWh/mile)	0.25 <sup>a</sup>
Fuel Economy of an EV (MWh/mile)	0.00025
<i>Calculated MWh used per EVCS per year</i>	<i>13.69</i>
<sup>a</sup> California Air Resources Board, <i>Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards Appendix H: Greenhouse Gas Reduction Estimates</i> , Table H1.	
<sup>b</sup> Annual VMT reduction based on conservative assumption of 50% Plug-in Hybrid Electric Vehicle (PHEV) and 50% Battery Electric Vehicle (BEV).	

These inputs were used to calculate emissions reductions based on the assumption that the EV chargers would facilitate displacement of gasoline-fueled passenger vehicles, reducing VMT and associated GHG emissions from such vehicles. The results were derived as follows:

- (A) Avoided fossil-fueled vehicle emissions for each year were calculated by multiplying the estimated EV miles per EVCS by annual emission factors derived from EMFAC 2017.<sup>6</sup>
- (B) Indirect emissions associated with EVCS charging use were calculated by multiplying the calculated MWh used per EVCS by annual estimated Southern California Edison

<sup>5</sup> California Air Resources Board, *Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards Appendix H: Greenhouse Gas Reduction Estimates* (Apr 2018), available at: <https://ww3.arb.ca.gov/cc/greenbuildingngs/pdf/tcac2018.pdf>.

<sup>6</sup> California Air Resources Board, EMFAC2017 Web Database, available at: <https://www.arb.ca.gov/emfac/2017/>.

emission factors.

- (C) Net emissions reductions were calculated by subtracting the EVCS charging use indirect emissions (B) from the avoided emissions produced by fossil-fueled vehicle emissions for the EV miles per EVCS (A).

The tables below provide the vehicle emissions factors, EVCS emissions factors, and annual reductions per EVCS used to calculate the total reductions per EVCS over the assumed 10-year operating period.

Vehicle Emissions Factors				
Year	CO <sub>2</sub> (grams/mile)	CH <sub>4</sub> (grams/mile)	N <sub>2</sub> O (grams/mile)	MT CO <sub>2</sub> e / mile
2021	270.866440	0.003250	0.004965	0.000272
2022	263.568081	0.002843	0.004579	0.000264
2023	256.386274	0.002506	0.004259	0.000257
2024	249.204639	0.002223	0.003996	0.000250
2025	241.943303	0.001984	0.003783	0.000243
2026	235.484857	0.001788	0.003616	0.000236
2027	229.729586	0.001626	0.003482	0.000230
2028	224.621022	0.001490	0.003377	0.000225
2029	220.072932	0.001374	0.003291	0.000221
2030	216.037270	0.001274	0.003224	0.000217

**Notes:**  
Emission factors derived from EMFAC 2017 (LDA vehicle class, 30 mph, RUNEX emissions factors, South Coast Air Basin, Aggregate)

EVCS Emissions Factors	
Emissions per MWh	
Year	MTCO <sub>2</sub> e / MWh
2021	0.242566
2022	0.238646
2023	0.234496
2024	0.230576
2025	0.226656
2026	0.222967
2027	0.219047
2028	0.215127
2029	0.211438
2030	0.207518

**Notes:**  
Estimated SCE emission factors were calculated for the AB 987 application June 2019 submission, based on the 2017 California Energy Commission (CEC) power content table and 2017 SCE GHG emission factor of 549 pounds CO<sub>2</sub>e per MWh; future year GHG intensities were interpolated assuming a linear trajectory toward 100 percent clean electricity by 2045.

<b>Net Emissions Reductions per Local EVCS</b>				
Year	Fossil Fuel Vehicle VMT to EV Vehicle VMT (MT CO <sub>2</sub> e)	Fossil Fuel Vehicle VMT Emissions (MT CO <sub>2</sub> e)	Indirect EVCS Emissions (MT CO <sub>2</sub> e)	Net Reductions (MT CO <sub>2</sub> e)
2021	54,750	14.874631	3.320121	11.554510
2022	54,750	14.479932	3.266468	11.213464
2023	54,750	14.081639	3.209660	10.872179
2024	54,750	13.684775	3.156008	10.528767
2025	54,750	13.284216	3.102356	10.181860
2026	54,750	12.928324	3.051860	9.876464
2027	54,750	12.611463	2.996208	9.613255
2028	54,750	12.330423	2.944556	9.385867
2029	54,750	12.080366	2.894059	9.186307
2030	54,750	11.858617	2.840407	9.018210
<b>TOTAL</b>				<b>101.430584</b>

## **IBEC On-Site Waste Reduction and Diversion Program**

The Applicant will implement a waste reduction and diversion program for operations of the IBEC Project, with the exception of the hotel, with a goal of reducing landfill waste to zero. Effectiveness of the program shall be monitored annually through the U.S. EPA's WasteWise program or a similar annual reporting system.<sup>7</sup>

### **Estimated Results**

The GHG reductions estimated for this measure are as follows:

<b>Timeframe</b>	<b>MT CO<sub>2</sub>e Reduced</b>
IBEC Operations 2024-2054	31,587

### **Calculation Methodology**

The GHG emissions reductions for the implementation of a waste reduction and landfill diversion program for the proposed IBEC Project are calculated based on the assumption that the program will reduce landfill waste for all uses included in the proposed Project except for the hotel component. The program will have a goal of zero landfill waste. The reductions presented therefore assume elimination of GHG emissions as calculated in the mitigated emissions scenario in the AB 987 Application (IBEC Project Greenhouse Gas Analysis Supplemental Technical Memorandum and Attachment 3, Appendix A). As documented in that submittal, those indirect GHG emissions were calculated using waste generation rates for California arena venues, along with CalEEMod default generation rates for other land uses. The potential GHG emissions reductions that could be achieved through a 100% reduction and diversion rate for all uses except for the hotel were similarly calculated using CalEEMod.<sup>8</sup>

For purposes of calculating the potential reductions for the IBEC Project waste program, the effectiveness of the program has been adjusted to allow for implementation and modification of the program and to provide conservative estimate of emissions reductions based on waste diversion rates observed for other large sports and entertainment venues,<sup>9</sup> using the following assumptions:

<b>Parameter</b>	<b>Assumption</b>
Years of emissions reductions included	2024-2054
Assumed waste reduction and diversion, 2024-2026	80%
Assumed waste reduction and diversion, 2027-2028	85%
Assumed waste reduction and diversion, 2029-2054	90%

<sup>7</sup> See U.S. Environmental Protection Agency, WasteWise Program *available at*: <https://www.epa.gov/smm/wastewise#01>. Other monitoring and reporting programs or systems include the GBCI TRUE Zero Waste Program, *see* <https://true.gbc.org>.

<sup>8</sup> California Emissions Estimator Model Version 2016.3.2 (CalEEMod), *available at*: <http://www.ca-eemod.com/>.

<sup>9</sup> Waste reduction and diversion programs at other sports and entertainment venues have achieved diversion rates over 90%, including diversion rates of 95% to 97% at CenturyLink Field in Seattle (*see* <https://www.epa.gov/newsreleases/century-link-field-seattle-earns-epas-wastewise-award-reducing-waste-saving-resources>), 93% to 94% at Ohio Stadium in Columbus (*see* <https://ohiosatebuckeyes.com/zero-waste-at-ohio-stadium/>), and 94% at Pauley Pavilion in Los Angeles and 92% at Haas Pavilion in Berkeley (*see* <https://pac12.com/article/2019/05/20/california-selected-over-winner-pac-12-zero-waste-challenge-2018-19-basketball>).

<b>Waste Program Emissions Reductions</b>				
<b>Year</b>	<b>IBEC Operational Solid Waste Emissions (MT CO<sub>2</sub>e)</b>	<b>100% Diversion Potential Emissions Reductions (MT CO<sub>2</sub>e)<sup>1</sup></b>	<b>Waste Reduction / Diversion</b>	<b>IBEC Waste Program Emissions Reductions (MT CO<sub>2</sub>e)</b>
2024	603.42	582.78	80%	466.22
2025	1,206.83	1,165.56	80%	932.45
2026	1,206.83	1,165.56	80%	932.45
2027	1,206.83	1,165.56	85%	990.73
2028	1,206.83	1,165.56	85%	990.73
2029	1,206.83	1,165.56	90%	1,049.00
2030	1,206.83	1,165.56	90%	1,049.00
2031	1,206.83	1,165.56	90%	1,049.00
2032	1,206.83	1,165.56	90%	1,049.00
2033	1,206.83	1,165.56	90%	1,049.00
2034	1,206.83	1,165.56	90%	1,049.00
2035	1,206.83	1,165.56	90%	1,049.00
2036	1,206.83	1,165.56	90%	1,049.00
2037	1,206.83	1,165.56	90%	1,049.00
2038	1,206.83	1,165.56	90%	1,049.00
2039	1,206.83	1,165.56	90%	1,049.00
2040	1,206.83	1,165.56	90%	1,049.00
2041	1,206.83	1,165.56	90%	1,049.00
2042	1,206.83	1,165.56	90%	1,049.00
2043	1,206.83	1,165.56	90%	1,049.00
2044	1,206.83	1,165.56	90%	1,049.00
2045	1,206.83	1,165.56	90%	1,049.00
2046	1,206.83	1,165.56	90%	1,049.00
2047	1,206.83	1,165.56	90%	1,049.00
2048	1,206.83	1,165.56	90%	1,049.00
2049	1,206.83	1,165.56	90%	1,049.00
2050	1,206.83	1,165.56	90%	1,049.00
2051	1,206.83	1,165.56	90%	1,049.00
2052	1,206.83	1,165.56	90%	1,049.00
2053	1,206.83	1,165.56	90%	1,049.00
2054	1,206.83	1,165.56	90%	1,049.00
<b>TOTAL REDUCTIONS</b>				<b>31,586.65</b>
<b>Notes:</b>				
<sup>1</sup> Emissions reductions derived from Ca EEMod modeling results with a 96.58% reduction in waste disposed, consistent with a 100% waste diversion/reduction rate for a Project and uses except the note (see Ca EEMod run output, attached).				

## **IBEC On-Site Electric Vehicle Charging Stations**

The Applicant will install a minimum of 330 electric vehicle charging stations (EVCS) within the three on-site parking structures serving the proposed IBEC Project for use by visitors, event attendees, employees, and the public.

### **Estimated Results**

The GHG reductions estimated for this measure are as follows:

<b>Timeframe</b>	<b>MT CO<sub>2</sub>e Reduced</b>
IBEC Project Operations 2024-2054	13,918

### **Calculation Methodology**

The methodology to calculate GHG emissions reductions for this measure is based on a technical analysis produced by the California Air Resources Board in 2018 to study the effectiveness of EVCS, which includes an estimate of the GHG emissions reduction per EVCS.<sup>10</sup> The emissions reduction estimate methodology and calculations per on-site EVCS are derived from Appendix H, Table H1 of that analysis. Each on-site EVCS is assumed to be operated and maintained for the 30-year operational life of the IBEC Project, consistent with the operational life assumed in the AB 987 Application. Where appropriate, IBEC Project-specific inputs have been incorporated into the methodology, as noted below. Using this methodology, the following assumptions and resulting calculated inputs were used to derive the emissions reductions estimates:

<b>Parameter</b> <i>(italicized values were calculated based on parameters listed above them)</i>	<b>Input</b>
Years of emissions reductions included	2024 – 2054
Total EV Charging Stations installed at IBEC	330
Total annual charge hours of use at IBEC (all EVCSs)	168,034
BEV mileage per hour of charge	20 <sup>a</sup>
PHEV mileage per hour of charge	10 <sup>a</sup>
<i>Calculated average mileage per hour of charge</i>	<i>15<sup>b</sup></i>
<i>Calculated EV miles per EVCS per year displacing fossil fuel vehicles</i>	<i>7,638</i>
Fuel Economy of an EV (kWh/mile)	0.25 <sup>a</sup>
Fuel Economy of an EV (MWh/mile)	0.00025
<i>Calculated MWh used per EVCS per year</i>	<i>1.91</i>
<b>Notes:</b>	
<sup>a</sup> California Air Resources Board, <i>Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards Appendix H: Greenhouse Gas Reduction Estimates</i> , Table H1.	
<sup>b</sup> Miles per charge estimate based on conservative assumption of 50% Plug-in Hybrid Electric Vehicle (PHEV) and 50% Battery Electric Vehicle (BEV).	

These inputs were used to calculate emissions reductions based on the assumption that the EV chargers would facilitate displacement of vehicle miles traveled by gasoline-fueled passenger vehicles, reducing VMT and associated GHG emissions from such vehicles. Results were derived as follows:

<sup>10</sup> California Air Resources Board, *Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards Appendix H: Greenhouse Gas Reduction Estimates* (Apr. 2018), available at: <https://ww3.arb.ca.gov/cc/greenbuilding/pdf/lcac2018.pdf>.

- (A) Avoided gasoline vehicle emissions for each year were calculated by multiplying the calculated EV miles per EVCS by annual emission factors derived from EMFAC 2017.<sup>11</sup>
- (B) Indirect emissions associated with EVCS charging use were calculated by multiplying the calculated MWh used per EVCS by annual estimated Southern California Edison emission factors.
- (C) Net emissions reductions were calculated by subtracting the EVCS charging use indirect emissions (B) from the avoided emissions produced by fossil-fueled vehicle emissions for the EV miles per EVCS (A).

IBEC EVCS Utilization <sup>1</sup>								
Parking Structure	EVCS	Event Day Charge Hours per EVCS*	Event Days EVCS in Use	Annual Charge Hours Event Days	Non-Event Day Charge Hours per EVCS**	Non-Event Days EVCS in Use	Annual Charge Hours Non-Event Days	Total Annual Charge Hours
South	52	6	243	75,816	4	122	25,376	101,192
West	249	2	127	63,246	0		0	63,246
East	29	2	82	3,596	0		0	3,596
IBEC Total	330			142,658			25,376	168,034
<b>Average annual charge hours per EVCS</b>								<b>509</b>
<b>Miles per charge hour</b>								<b>15</b>
<b>EV miles per EVCS per year</b>								<b>7,638</b>
<p><u>Notes:</u></p> <p><sup>1</sup>EVCS utilization assumptions based on the methodology employed in <i>California Air Resources Board Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards Appendix H: Greenhouse Gas Reduction Estimates</i> (Apr 2018), adjusted to assume 4 hours of EVCS use by employees and ancillary use visitors during non-event periods in the South parking structure, and 2 hours EVCS use during events in all structures utilized for an event.</p> <p>Parking structure and EVCS utilization based on projected events to be hosted at IBEC as stated in the IBEC Project AB 987 Application; West parking structure utilized during a projected events over 7,500 attendees, East parking structure utilized during a projected events over 14,500 attendees.</p>								

<sup>11</sup> California Air Resources Board, EMFAC2017 Web Database, available at: <https://www.arb.ca.gov/emfac/2017/>.



<b>Fossil Fuel Vehicle Emissions</b>				
<b>Year</b>	<b>CO<sub>2</sub> (grams/mile)</b>	<b>CH<sub>4</sub> (grams/mile)</b>	<b>N<sub>2</sub>O (grams/mile)</b>	<b>MT CO<sub>2</sub>e / mile</b>
2024	249.204639	0.002223	0.003996	0.000250
2025	241.943303	0.001984	0.003783	0.000243
2026	235.484857	0.001788	0.003616	0.000236
2027	229.729586	0.001626	0.003482	0.000230
2028	224.621022	0.001490	0.003377	0.000225
2029	220.072932	0.001374	0.003291	0.000221
2030	216.037270	0.001274	0.003224	0.000216
2031	212.501747	0.001188	0.003170	0.000213
2032	209.361117	0.001113	0.003126	0.000210
2033	206.612987	0.001048	0.003092	0.000207
2034	204.218929	0.000991	0.003065	0.000205
2035	202.150383	0.000939	0.003042	0.000203
2036	200.379193	0.000894	0.003025	0.000201
2037	198.882561	0.000856	0.003012	0.000199
2038	197.629716	0.000824	0.003002	0.000198
2039	196.591155	0.000796	0.002994	0.000197
2040	195.737668	0.000771	0.002988	0.000196
2041	195.047960	0.000750	0.002983	0.000195
2042	194.493749	0.000734	0.002979	0.000195
2043	194.054473	0.000721	0.002976	0.000194
2044	193.709337	0.000712	0.002975	0.000194
2045	193.436791	0.000707	0.002975	0.000194
2046	193.224733	0.000703	0.002974	0.000194
2047	193.058935	0.000699	0.002974	0.000193
2048	192.927845	0.000697	0.002973	0.000193
2049	192.823939	0.000695	0.002973	0.000193
2050	192.740525	0.000694	0.002973	0.000193
2051	192.740525	0.000694	0.002973	0.000193
2052	192.740525	0.000694	0.002973	0.000193
2053	192.740525	0.000694	0.002973	0.000193
2054	192.740525	0.000694	0.002973	0.000193

**Notes:**  
Emission factors derived from EMFAC 2017 (LDA vehicle class, 30 mph, RUNEX emissions factors, South Coast Air Basin, Aggregate)

<b>EVCS Emissions Factors</b>	
<b>Emissions per MWh</b>	
<b>Year</b>	<b>MTCO<sub>2e</sub> / MWh</b>
2024	0.230576
2025	0.226656
2026	0.222967
2027	0.219047
2028	0.215127
2029	0.211438
2030	0.207518
2031	0.193684
2032	0.179849
2033	0.166015
2034	0.152180
2035	0.138346
2036	0.124511
2037	0.110676
2038	0.096842
2039	0.083007
2040	0.069173
2041	0.055338
2042	0.041504
2043	0.027669
2044	0.013835
2045	
2046	
2047	
2048	
2049	
2050	
2051	
2052	
2053	
2054	

**Notes:**  
 Estimated SCE emissions factors were calculated for the AB 987 application on June 2019 submission, based on the 2017 California Energy Commission (CEC) power content table and 2017 SCE GHG emissions factor of 549 pounds CO<sub>2e</sub> per MWh; future year GHG intensities were interpolated assuming a linear trajectory toward 100 percent clean electricity by 2045.

<b>Net Emissions Reductions per EVCS</b>			
<b>Year</b>	<b>Fossil Fuel VMT Emissions (MT CO<sub>2</sub>e)</b>	<b>Indirect EVCS Emissions (MT CO<sub>2</sub>e)</b>	<b>Net Reductions (MT CO<sub>2</sub>e)</b>
2024	0.954549	0.220140	0.734409
2025	1.853217	0.432795	1.420422
2026	1.803568	0.425750	1.377818
2027	1.759365	0.418266	1.341099
2028	1.720158	0.410781	1.309377
2029	1.685274	0.403736	1.281537
2030	1.654339	0.396252	1.258087
2031	1.627249	0.369835	1.257415
2032	1.603197	0.343418	1.259779
2033	1.582159	0.317001	1.265158
2034	1.563837	0.290584	1.273253
2035	1.548008	0.264168	1.283841
2036	1.534458	0.237751	1.296707
2037	1.523014	0.211334	1.311680
2038	1.513435	0.184917	1.328518
2039	1.505496	0.158501	1.346995
2040	1.498970	0.132084	1.366886
2041	1.493698	0.105667	1.388031
2042	1.489461	0.079250	1.410211
2043	1.486104	0.052834	1.433271
2044	1.483469	0.026417	1.457052
2045	1.481390	0.000000	1.481390
2046	1.479771	0.000000	1.479771
2047	1.478506	0.000000	1.478506
2048	1.477504	0.000000	1.477504
2049	1.476712	0.000000	1.476712
2050	1.476076	0.000000	1.476076
2051	1.476076	0.000000	1.476076
2052	1.476076	0.000000	1.476076
2053	1.476076	0.000000	1.476076
2054	1.476076	0.000000	1.476076
<b>TOTAL</b>			<b>42.175808</b>

## **IBEC On-Site Smart Parking**

The Applicant shall install systems in the on-site parking structures serving the proposed IBEC Project to reduce vehicle circulation and idle time within the structures by more efficiently directing vehicles to available parking spaces.

### **Estimated GHG Emissions Reduction Results**

The GHG reductions estimated for this measure are as follows:

<b>Timeframe and Scope</b>	<b>MT CO<sub>2</sub>e Reduced</b>
2024-2054 emissions reductions from all IBEC garages	1,480

### **Assumptions**

<b>Parameter</b>	<b>Assumption</b>	
	<i>Parking Structure</i>	<i>Self-Park Spaces</i>
Self-Park Spaces	West	3,110
	South	650
	East	365
Time saved	Varies based on parking structure size: Ranges from 0.5 to 3 minutes	
Expected garage utilization rate	Varies by event type	
Vehicle speed while parking	5 miles per hours	

### **Calculation Methodology**

Based on these assumptions, emissions reductions were calculated by determining the amount of circulation and idling time saved by usage of the smart parking systems in the IBEC Project parking structures and calculating the associated emissions reductions, using emissions factors obtained from EMFAC 2017<sup>12</sup> for the years 2024 to 2054, using the inputs of light duty auto (LDA) vehicle class, operating at 5 miles per hour and converted to grams/minute using travel speed and emission factor.

<sup>12</sup> California Air Resources Board, EMFAC2017 Web Database, *available at:* <https://www.arb.ca.gov/emfac/2017/>. To provide a conservative emissions reduction estimate, emissions factors were computed for each year with decreasing emissions factors for each new year due to assumed upgrades in vehicle fleets.

IBEC Parking Structure Utilization							
West Parking Structure (Event Parking)							
Capacity							
Self Park Spaces Total	3,110						
Utilization			Minutes/Year Saved from Smart Parking				
Event Type	Annual Occurrence	Garage Utilization per Event Type	Parking Spaces Utilized/Year	Average Time Savings	Minutes Saved per Event Type	Total Minutes Saved All Events	
NBA Games Large Concert Medium Concert	62	100%	192,820	3	578,460	971,564	
Small Concert Family Show	30	90%	83,970	2	167,940		
Other Events	35	80%	87,080	2	174,160		
Festival Events	16	40%	19,904	1	19,904		
Corporate/ Community Events	100	20%	62,200	0.5	31,100		
East Parking Structure (Event Parking)							
Capacity							
Self Park Spaces Total	365						
Utilization			Minutes/Year Saved				
Event Type	Annual Occurrence	Garage Utilization per Event Type	Parking Spaces Utilized/Year	Average Time Savings	Minutes Saved Per Event Type	Total Minutes Saved All Events	
NBA Games Large Concert Medium Concert	62	100%	22,630	0.5	11,315	11,315	
South Parking Structure (Event, Employee, and Ancillary Use Visitor Parking)							
Capacity							
Self Park Spaces Total	650						
Utilization			Minutes/Year Saved				
Event Type	Annual	Garage Utilization	Parking Spaces Utilized/Year	Average Time Savings	Minutes Saved Per Event Type	Total Minutes Saved All Events	
Auto parking	365 days	100%	237,250	1	237,250	237,250	
Total Minutes Saved per Year, All Structures					1,220,129		

Emission Factors						
YEAR	grams/mi*				grams/hr**	grams/min
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e***	CO <sub>2</sub> e	CO <sub>2</sub> e
2024	593.516741	0.012850	0.006881	595.888628	2,979.4431	49.657386
2025	576.206751	0.011485	0.006511	578.434020	2,892.1701	48.202835
2026	560.828584	0.010369	0.006218	562.940663	2,814.7033	46.911722
2027	547.139161	0.009442	0.005985	549.158817	2,745.7941	45.763235
2028	534.995460	0.008666	0.005801	536.940730	2,684.7036	44.745061
2029	524.187891	0.008008	0.005650	526.071816	2,630.3591	43.839318
2030	514.800272	0.007441	0.005531	516.434445	2,582.1722	43.036204
2031	506.367491	0.006969	0.005436	508.161639	2,540.8082	42.346803
2032	498.898068	0.006539	0.005359	500.658474	2,503.2924	41.721539
2033	492.362175	0.006165	0.005298	494.095122	2,470.4756	41.174594
2034	486.668912	0.005832	0.005249	488.378902	2,441.8945	40.698242
2035	481.750950	0.005535	0.005209	483.441486	2,417.2074	40.286790
2036	477.540815	0.005275	0.005177	479.215315	2,396.0766	39.934610
2037	473.983724	0.005057	0.005153	475.645849	2,378.2292	39.637154
2038	471.006662	0.004870	0.005135	472.658748	2,363.2937	39.388229
2039	468.539301	0.004707	0.005122	470.183215	2,350.9161	39.181935
2040	466.511827	0.004562	0.005110	468.148624	2,340.7431	39.012385
2041	464.873494	0.004441	0.005101	466.504614	2,332.5231	38.875384
2042	463.556703	0.004342	0.005094	465.183299	2,325.9185	38.765275
2043	462.512494	0.004269	0.005089	464.135859	2,320.6793	38.677988
2044	432.496262	0.003951	0.004765	434.015079	2,170.0754	36.167923
2045	432.554129	0.003927	0.004772	434.074340	2,170.3717	36.172862
2046	432.686279	0.003908	0.004778	434.209790	2,171.0490	36.184149
2047	432.911477	0.003894	0.004783	434.434289	2,172.1714	36.202857
2048	433.174165	0.003884	0.004788	434.698177	2,173.4909	36.224848
2049	433.437440	0.003879	0.004794	434.962966	2,174.8148	36.246914
2050	433.698752	0.003876	0.004798	435.225578	2,176.1279	36.268798
2051	433.698752	0.003876	0.004798	435.225578	2,176.1279	36.268798
2052	433.698752	0.003876	0.004798	435.225578	2,176.1279	36.268798
2053	433.698752	0.003876	0.004798	435.225578	2,176.1279	36.268798
2054	433.698752	0.003876	0.004798	435.225578	2,176.1279	36.268798

**Notes:**  
\*EMFAC 2017 (LDA vehicle class, 5 mph, RUNEX emissions factors, South Coast Air Basin, Aggregate)  
\*\*Derived based on one hour of run time at 5 mph (g/mile \* m/hr = g/hr)  
\*\*\*Derived from carbon dioxide, methane, and nitrous oxide with GWPs of 1, 25, and 296, respectively.

<b>Smart Parking Emissions Reductions</b>			
<b>YEAR</b>	<b>Emissions Factor grams/min CO<sub>2</sub>e</b>	<b>Minutes Saved Per Year</b>	<b>Emissions Reductions MT/yr* CO<sub>2</sub>e</b>
2024	49.657386	610,065	30.233620
2025	48.202835	1,220,129	58.696050
2026	46.911722	1,220,129	57.123876
2027	45.763235	1,220,129	55.725376
2028	44.745061	1,220,129	54.485557
2029	43.839318	1,220,129	53.382644
2030	43.036204	1,220,129	52.404701
2031	42.346803	1,220,129	51.565226
2032	41.721539	1,220,129	50.803849
2033	41.174594	1,220,129	50.137839
2034	40.698242	1,220,129	49.557791
2035	40.286790	1,220,129	49.056771
2036	39.934610	1,220,129	48.627925
2037	39.637154	1,220,129	48.265716
2038	39.388229	1,220,129	47.962603
2039	39.181935	1,220,129	47.711401
2040	39.012385	1,220,129	47.504942
2041	38.875384	1,220,129	47.338118
2042	38.765275	1,220,129	47.204039
2043	38.677988	1,220,129	47.097751
2044	38.167923	1,220,129	44.041273
2045	36.172862	1,220,129	44.047286
2046	36.184149	1,220,129	44.061031
2047	36.202857	1,220,129	44.083812
2048	36.224848	1,220,129	44.110590
2049	36.246914	1,220,129	44.137459
2050	36.268798	1,220,129	44.164107
2051	36.268798	1,220,129	44.164107
2052	36.268798	1,220,129	44.164107
2053	36.268798	1,220,129	44.164107
2054	36.268798	1,220,129	44.164107
<b>TOTAL</b>			<b>1,480.1878</b>
<b>Notes:</b>			
*Conversion factor grams/year to metric tons/year = 0.000000998			

## **IBEC On-site Use of Renewable Energy**

The Applicant could use 100% renewable electricity to displace use of electricity provided by Southern California Edison that is derived from a mix of fossil and renewable energy sources, and use renewable natural gas (RNG) to displace the use of traditional, non-renewable natural gas.

### **Estimated Results**

The GHG reductions estimated for this measure are as follows:

<b>Timeframe</b>	<b>Source</b>	<b>MT CO<sub>2</sub>e Reduced</b>
IBEC Project Operations 2024-2054	Green Power	52,889
IBEC Project Operations 2024-2054	Renewable Natural Gas	30,827

### **GHG Emissions Reductions Calculation – Renewable Electrical Power**

The emissions reductions for green power are calculated on the assumption that if the proposed Project used 100% renewable electricity, all GHG emissions from IBEC electricity usage would be eliminated. The reductions presented, therefore, are from 100 percent elimination of the mitigated emissions scenario from the AB 987 Application. As documented in the Application, those electricity emissions were calculated as follows:

- Southern California Edison annual emission factors were estimated based on the 2017 California Energy Commission power content label<sup>13</sup> and the 2017 SCE GHG emissions factor.<sup>14</sup>
- Future year GHG intensities were interpolated for 2024 through 2054 assuming a linear trajectory toward 100 percent clean electricity by 2045, based on Southern California Edison meeting California's Renewable Portfolio Standard<sup>15</sup> phased requirements.
- These estimated emission factors for each year were entered into CalEEMod,<sup>16</sup> and multiplied by the project's annual electricity consumption, to derive the emissions results for each year.

The emissions reductions for renewable natural gas are calculated on the assumption that the proposed Project's use of 100% renewable natural gas will eliminate all anthropogenic CO<sub>2</sub> emissions from Project's natural gas usage. Emissions of CH<sub>4</sub> and N<sub>2</sub>O from renewable natural gas are considered anthropogenic,<sup>17</sup> and so only CO<sub>2</sub> emissions reductions are accounted from displacement of the fossil-derived natural gas. The reductions presented, therefore, are from 100 percent elimination of the mitigated emissions scenario's CO<sub>2</sub> emissions from the AB 987 Application.

<sup>13</sup> California Energy Commission, *Southern California Edison Power Content Label* (2017), available at: [https://www2.energy.ca.gov/pc/ab987/2017\\_ab987/SCE\\_2017\\_PCL.pdf](https://www2.energy.ca.gov/pc/ab987/2017_ab987/SCE_2017_PCL.pdf).

<sup>14</sup> Edison International, *Edison International Sustainability Report* (2017), available at: [https://www.edison.com/content/dam/edi/documents/sustainability/2017\\_sustainability\\_report.pdf](https://www.edison.com/content/dam/edi/documents/sustainability/2017_sustainability_report.pdf).

<sup>15</sup> California Public Utilities Commission, *Renewable Portfolio Standards Program*, available at: <https://www.cpuc.ca.gov/rps/>.

<sup>16</sup> California Emissions Estimator Model Version 2016.3.2 (CalEEMod), available at: <http://www.ca-eemod.com/>.

<sup>17</sup> WRI/WBCSD Calculation Tool for Direct Emissions from Stationary Combustion (2005), available at: [https://ghgprotocol.org/sites/default/files/Stationary\\_Combustion\\_Guidance\\_Final.pdf](https://ghgprotocol.org/sites/default/files/Stationary_Combustion_Guidance_Final.pdf).



<b>Renewable Energy Potential Reductions</b>		
<b>Year</b>	<b>Green Power Potential Reduction Per Year MTCO<sub>2</sub>e</b>	<b>Renewable Natural Gas Potential Reduction Per Year MTCO<sub>2</sub>e</b>
2024	2,124.23	505
2025	4,176.26	1,011
2026	4,105.73	1,011
2027	4,035.21	1,011
2028	3,964.69	1,011
2029	3,894.17	1,011
2030	3,823.64	1,011
2031	3,753.12	1,011
2032	3,682.59	1,011
2033	3,612.07	1,011
2034	3,541.54	1,011
2035	3,471.02	1,011
2036	3,400.49	1,011
2037	3,329.97	1,011
2038	3,259.44	1,011
2039	3,188.92	1,011
2040	3,118.39	1,011
2041	3,047.87	1,011
2042	2,977.34	1,011
2043	2,906.82	1,011
2044	2,836.29	1,011
2045	2,765.77	1,011
2046	2,695.24	1,011
2047	2,624.72	1,011
2048	2,554.19	1,011
2049	2,483.67	1,011
2050	2,413.14	1,011
2051	2,342.62	1,011
2052	2,272.09	1,011
2053	2,201.57	1,011
2054	2,131.04	1,011
<b>Total</b>	<b>52,889</b>	<b>30,827</b>

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**IBEC Operations - Maximum Attendees**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Unenclosed Parking Structure	650.00	Space	0.00	214,500.00	0
Unenclosed Parking Structure	3,110.00	Space	4.00	1,063,435.00	0
Unenclosed Parking Structure	590.00	Space	3.35	137,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	508.33	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates based on 2017 SCE Sustainability Report.

Land Use - Project specific land uses provided in programming details.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on Concept Design white box energy model. Default energy consumption rates used for parking structures and hotel.

Water And Wastewater - Based on Stetson Water Demand Analysis. Outdoor water use combined in Arena total. Cooling tower water demand calculated separately.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - EED features of the following: 51% water conservation of outdoor usage and 41% of indoor usage per Stetson Water Demand Analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator based on concept design. Assumes 50 hours per year for maintenance and testing based on Concept Design.

Waste Mitigation - A 96.58% reduction in waste disposed consistent with a Zero Waste Plan for all land uses except the hotel.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	89,930.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	2.99	5.96

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tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	7.64
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	4.66
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.25
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	9.53
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	1,244,000.00	1,063,435.00
tblLandUse	LandUseSquareFeet	236,000.00	137,000.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	27.99	4.00
tblLandUse	LotAcreage	5.31	3.35
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	508.33
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	239.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	1.55	0.00

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tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	718.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,623,400.00
tblWater	IndoorWaterUseRate	2,731,803.41	0.00
tblWater	IndoorWaterUseRate	12,619,096.11	2,857,100.00
tblWater	IndoorWaterUseRate	2,979,895.29	0.00
tblWater	IndoorWaterUseRate	5,027,167.24	0.00
tblWater	IndoorWaterUseRate	3,805,015.50	6,843,800.00
tblWater	IndoorWaterUseRate	3,137,013.44	0.00
tblWater	IndoorWaterUseRate	4,553,005.69	2,628,000.00
tblWater	IndoorWaterUseRate	1,777,740.52	2,645,500.00
tblWater	OutdoorWaterUseRate	25,158,807.93	4,888,465.00
tblWater	OutdoorWaterUseRate	174,370.43	0.00
tblWater	OutdoorWaterUseRate	7,734,284.71	0.00
tblWater	OutdoorWaterUseRate	1,826,387.43	0.00
tblWater	OutdoorWaterUseRate	3,081,167.02	0.00
tblWater	OutdoorWaterUseRate	422,779.50	0.00
tblWater	OutdoorWaterUseRate	597,526.37	0.00

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tblWater	OutdoorWaterUseRate	290,617.38	0.00
tblWater	OutdoorWaterUseRate	1,089,582.90	0.00

**2.0 Emissions Summary**

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## IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

## 8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	40.368	0.1943	0.4843	0.0000	20.3011
Fast Food Restaurant w/o Drive Thru	3.54551	0.7197	0.0425	0.0000	1.7830
General Office Building	3.15666	0.6408	0.0379	0.0000	1.5875
Government (Civic Center)	2.9241	0.5936	0.0351	0.0000	1.4705
Health Club	16.5699	3.3635	0.1988	0.0000	8.3330
Hotel	2.80885	0.5702	0.0337	0.0000	1.4126
Medical Office Building	9.234	1.8744	0.1108	0.0000	4.6438
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0.468198	0.0950	5.6200e-003	0.0000	0.2355
Strip Mall	2.99592	0.6081	0.0359	0.0000	1.5067
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>16.6597</b>	<b>0.9846</b>	<b>0.0000</b>	<b>41.2737</b>

November 18, 2019

Mr. Shannon Hatcher  
Air Pollution Specialist  
California Air Resources Board  
1001 I Street  
P.O. Box 2815  
Sacramento, CA 95812 - 2815

Re: **Inglewood Basketball and Entertainment Center Project  
State Clearinghouse No. 2018021056  
Electric Vehicle Home Charger Program Commitment**

Dear Mr. Hatcher,

Murphy's Bowl LLC (the "Applicant") submitted an application seeking certification of the Inglewood Basketball and Entertainment Center project (the "Project") for streamlining of judicial review under the California Environmental Quality Act pursuant to AB 987 on January 2, 2019, and submitted supplemental materials on June 12, 2019 (collectively, the "AB 987 Application"), and a commitment letter on November 1, 2019 (the "Commitment Letter"). The Commitment Letter included calculations and an emissions reduction methodology for a hypothetical 100% backfill GHG emissions scenario that assumes 100% of the relocated LA Clippers games and market-shifted non-NBA events moving from existing venues to the Project Arena would be replaced (*i.e.*, backfilled) with other non-NBA events at the Existing Venues.

This letter is provided to reaffirm the Applicant's commitments to GHG emissions reduction measures as set forth in the Commitment Letter, and to provide even further reassurance to California Air Resources Board ("CARB") that (1) 100% of the GHG emissions associated with the Project will be reduced such that the project results in no net additional emissions (the "Net Zero Standard"), and (2) not less than 50% of the GHG emissions reductions will be achieved through local, direct measures, and not more than 50% of the GHG emissions reductions will be achieved through the purchase of GHG offset credits. Accordingly, as a backstop to ensure that all GHG emissions from the hypothetical 100% backfill GHG emissions scenario would be offset, the Applicant commits to the following additional local, direct GHG emissions reduction measure:

- *Prior to the issuance of grading permits for the Project, the Applicant shall implement a program to cover 100% of the cost of purchasing and installing 1,000 electric vehicle ("EV") chargers for residential use in local communities near the Project site. Residents in the City of Inglewood and surrounding communities who purchase a new or used battery EV shall be eligible for the program. City of Inglewood residents will be given priority for participation in the program. Eligibility requirements and administration of the program shall ensure that only households that do not already own an EV participate in the program.*

As shown in Exhibit A, this EV home charger program is estimated to achieve total GHG emissions reductions of 19,487 MT CO<sub>2e</sub>, which exceeds the additional 15,563 MT CO<sub>2e</sub> of GHG emissions reductions that would be necessary under the hypothetical 100% backfill scenario from local direct measures that have not already specifically been committed to pursuant to the Commitment Letter.

This additional, enforceable commitment to the EV home charger program provides even further assurance that the Net Zero Standard will be achieved and that not less than 50% of the GHG emissions reductions will be achieved through local, direct measures, and it replaces the potential measure of providing Additional Renewable Energy identified in Exhibit A in the Commitment Letter.

Because the additional EV home charger program commitment would ensure that those requirements are met for the hypothetical 100% backfill scenario, and would be required to be imposed by the City of Inglewood as a condition of approval, the annual verification process proposed in the Commitment Letter is redundant and no longer necessary, and therefore is eliminated. However, the Applicant shall provide documentation to the City of Inglewood regarding the implementation of the EV home charger program and all GHG emissions reduction measures required under the AB 987 Application and the Commitment Letter. Given the rigor of the focus we have each brought to implementation of AB 987, when filing such documentation with the City, copies will be provided to CARB.

Sincerely,

Murphy's Bowl LLC,  
a Delaware limited liability company

  
By: Brandt Vaughan  
Its: Manager

## Exhibit A

### Local Residential Electric Vehicle Charging Units

Prior to the issuance of grading permits for the IBEC Project, the Applicant shall implement a program to cover 100% of the cost of purchasing and installing 1,000 electric vehicle (EV) charging units for residential use in local communities near the Project Site. Residents in the City of Inglewood and surrounding communities who purchase a new or used battery electric vehicle shall be eligible to participate in the program. City of Inglewood residents will be given priority for participation in the program. Eligibility requirements and administration of the program shall ensure that only households that do not already own an electric vehicle participate in the program.

#### **Estimated Results**

The program will provide 1,000 residential EV charging units. This estimate of the GHG emissions reductions conservatively assumes that the installation of charging units occurs over a four-year period from 2021 to 2024. The GHG reductions estimated for this measure are as follows:

Summary of Installation Phases	MT CO <sub>2</sub> e Reduced
2021-2030 emissions reductions from residential EV charging units installed in 2021	5,043
2022-2031 emissions reductions from residential EV charging units installed in 2022	4,917
2023-2032 emissions reductions from residential EV charging unit installed in 2023	4,808
2024-2033 emissions reductions from residential EV charging unit installed in 2024	4,719
Total 2021-2033 emissions reductions achieved from all residential EV charging units	19,487

#### **Calculation Methodology**

The methodology to calculate GHG emissions reductions for this measure is based on California Air Resources Board sources, and other inputs as necessary, as summarized in the discussion and inputs summary table below.

The overall methodology and key inputs were derived from a technical analysis produced by the California Air Resources Board in 2018 to study the effectiveness of EV charging stations, which includes a calculation of the GHG emissions reductions produced by EV charging stations based on the estimated electric vehicle miles traveled per unit.<sup>1</sup>

This estimate of GHG emissions reductions for residential EV charging units conservatively assumes that each unit will be used to charge one electric vehicle that travels the average number of miles per year for vehicles in the South Coast Air Basin based on the California Air Resources Board's EMFAC 2017 Web Database,<sup>2</sup> and that 80% of electric vehicle charging activity occurs at home based on a study of electric vehicle use prepared by an industry expert in 2018.<sup>3</sup> Each residential EV charging unit is conservatively assumed to be in operation for 10 years.

Using this California Air Resources Board-derived methodology, the following assumptions and resulting calculated inputs were used to derive the emissions reductions estimates:

<sup>1</sup> California Air Resources Board, *Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards, Appendix H: Greenhouse Gas Reduction Estimates* (April 2018), available at: <https://ww3.arb.ca.gov/cc/greenbuildings/pdf/tcac2018.pdf>.

<sup>2</sup> California Air Resources Board, EMFAC2017 Web Database, available at: <https://www.arb.ca.gov/emfac/2017/>; *EMFAC 2017 Vol. III Technical Documentation* (July 2018), available at: <https://ww3.arb.ca.gov/msei/downloads/emfac2017-volume-iii-technical-documentation.pdf>.

<sup>3</sup> Electric Power Research Institute, *Electric Vehicle Driving, Charging, and Load Shape Analysis Report* (July 2018), available at: <https://www.epri.com/#/pages/product/3002013754/?lang=en-US>.

<b>Parameter</b> <i>(italicized values were calculated based on parameters listed above them)</i>	<b>Assumption</b>
Years of emissions reductions included (assumed operating life of home EV charger)	10
Annual Gasoline-Fueled Vehicle VMT Reduction (Light-Duty Autos, South Coast Air Basin)	13,611 <sup>a</sup>
Portion of EV Charging Activity at Home (per vehicle)	80% <sup>b</sup>
<i>Calculated Annual Gasoline-Fueled Vehicle VMT Reduction per EV charging unit</i>	10,889
Fuel Economy of an EV (kWh/mile)	0.25 <sup>c</sup>
Fuel Economy of an EV (MWh/mile)	0.00025
<i>Calculated MWh used per EV charging unit per year</i>	2.72
<sup>a</sup> California Air Resources Board, EMFAC2017 Web Database; <i>EMFAC 2017 Vol. III Technical Documentation</i> . <sup>b</sup> Electric Power Research Institute, <i>Electric Vehicle Driving, Charging, and Load Shape Analysis Report</i> . <sup>c</sup> California Air Resources Board, <i>Electric Vehicle (EV) Charging Infrastructure: Multifamily Building Standards, Appendix H: Greenhouse Gas Reduction Estimate</i> , Table H1.	

These inputs were used to calculate emissions reductions based on the assumption that residential EV charger units would facilitate displacement of gasoline-fueled passenger vehicles, reducing VMT and associated GHG emissions from such vehicles. The results were derived as follows:

- (A) The average annual vehicle miles traveled per light duty auto vehicle in the South Coast Air Basin was calculated using information from EMFAC 2017.<sup>4</sup>
- (B) The estimated EV miles traveled per residential EV charging unit were calculated by multiplying the average annual vehicle miles traveled per vehicle by the percentage of home charging (80%) determined by an industry expert study.<sup>5</sup>
- (C) Avoided fossil-fueled vehicle emissions per EV charging unit were calculated by multiplying the estimated EV miles per residential EV charging unit by annual emission factors derived from EMFAC 2017.
- (D) Indirect emissions associated with the use of residential EV charging units were calculated by multiplying the calculated MWh used per EV charging unit by annual estimated Southern California Edison emission factors.
- (E) Net emissions reductions per residential EV charging unit were calculated by subtracting the EV charging unit use indirect emissions (D) from the avoided emissions produced by fossil-fueled vehicle miles traveled (C).

The tables below provide the gasoline vehicle emissions factors, home EV charging unit emissions factors, and annual reductions per residential EV charging unit used to calculate the total reductions per residential EV charging unit over the assumed 10-year operating period.

<sup>4</sup> California Air Resources Board, EMFAC2017 Web Database, available at: <https://www.arb.ca.gov/emfac/2017/>.

<sup>5</sup> Electric Power Research Institute, *Electric Vehicle Driving, Charging, and Load Shape Analysis Report* (July 2018), available at: <https://www.epri.com/#/pages/product/3002013754/?lang=en-US>.

<b>Annual Average Vehicle Miles Traveled</b>	
<b>Light-Duty Autos (LDA) in the South Coast Air Basin</b>	
<i>(italicized values were calculated based on parameters listed above them)</i>	
Average daily LDA VMT, South Coast Air Basin	246,181,276
Vehicle Population	6,276,234
<i>Calculated Average Daily VMT per LDA</i>	39.22
LDA Days of Operation per Year	347
<i>Calculated Annual VMT per LDA</i>	13,611
<b>Notes:</b>	
Average daily LDA VMT, vehicle population, and days of operation per year derived from EMFAC 2017 and EMFAC 2017 Vol. III Technical Documentation.	

<b>Gasoline Vehicle GHG Emissions Factors</b>				
<b>Year</b>	<b>CO<sub>2</sub> (grams/mile)</b>	<b>CH<sub>4</sub> (grams/mile)</b>	<b>N<sub>2</sub>O (grams/mile)</b>	<b>MT CO<sub>2</sub>e / mile</b>
2021	270.666440	0.003250	0.004965	0.000272
2022	263.568081	0.002843	0.004579	0.000264
2023	256.386274	0.002506	0.004259	0.000257
2024	249.204639	0.002223	0.003996	0.000250
2025	241.943303	0.001984	0.003783	0.000243
2026	235.484857	0.001788	0.003616	0.000236
2027	229.729586	0.001626	0.003482	0.000230
2028	224.621022	0.001490	0.003377	0.000225
2029	220.072932	0.001374	0.003291	0.000221
2030	216.037270	0.001274	0.003224	0.000217
2031	212.501747	0.001188	0.003170	0.000213
2032	209.361117	0.001113	0.003126	0.000210
2033	206.612987	0.001048	0.003092	0.000207
<b>Notes:</b>				
Emission factors derived from EMFAC 2017 (LDA vehicle class, 30 mph, RUNEX emissions factors, South Coast Air Basin, Aggregate)				

Residential EV Charging Unit GHG Emissions Factors	
Emissions per MWh	
Year	MTCO <sub>2e</sub> / MWh
2021	0.242566
2022	0.238646
2023	0.234496
2024	0.230576
2025	0.226656
2026	0.222967
2027	0.219047
2028	0.215127
2029	0.211438
2030	0.207518
2031	0.193684
2032	0.179849
2033	0.166015

*Notes:*  
 Estimated SCE emission factors were calculated for the AB 987 application June 2019 submittal, based on the 2017 California Energy Commission (CEC) power content label and 2017 SCE GHG emissions factor of 549 pounds CO<sub>2e</sub> per MWh; future year GHG intensities were interpolated assuming a linear trajectory toward 100 percent clean electricity by 2045.

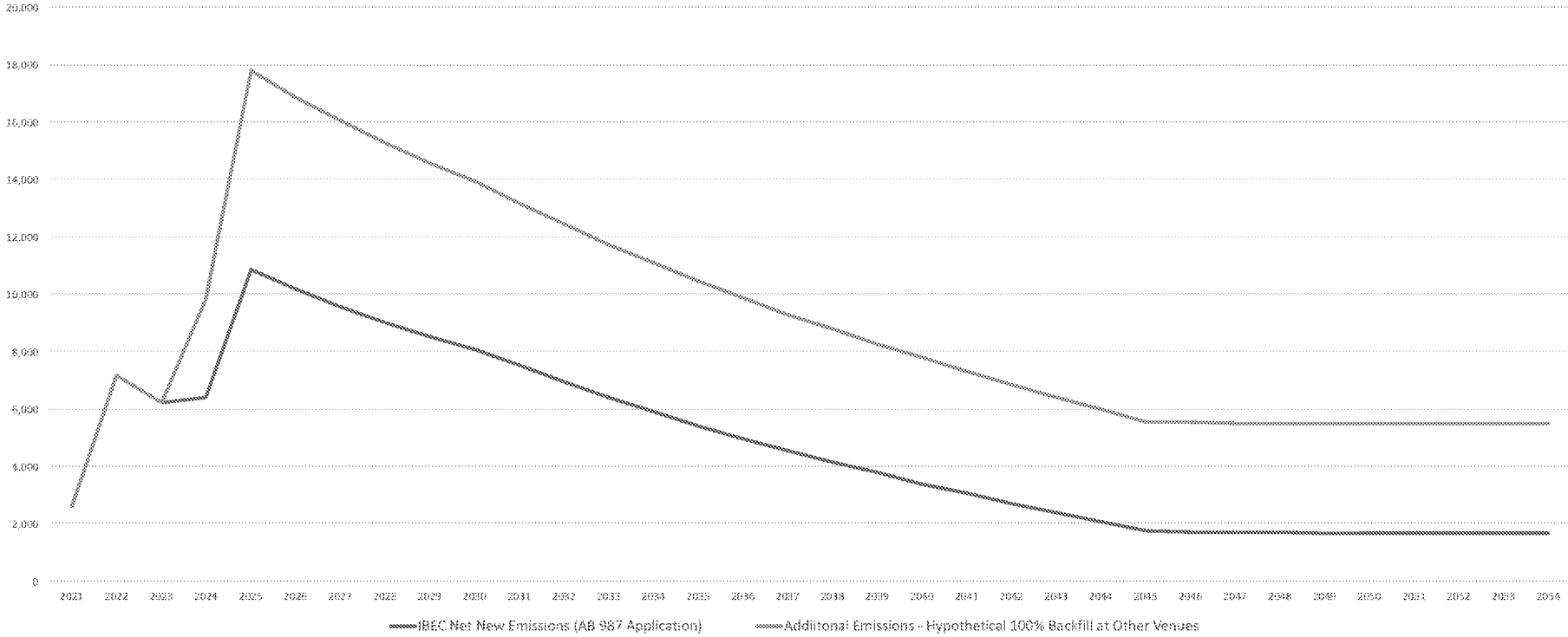
Net GHG Emissions Reductions per Residential EV Charging Unit							
Year	Fossil Fuel Vehicle Annual VMT displaced by EV VMT per Unit	Avoided Fossil Fuel Vehicle Emissions (MT CO <sub>2e</sub> )	Indirect Emissions from EV Charging (MT CO <sub>2e</sub> )	Net Emissions Reductions from 2021 Installations (MT CO <sub>2e</sub> )	Net Emissions Reductions from 2022 Installations (MT CO <sub>2e</sub> )	Net Emissions Reductions from 2023 Installations (MT CO <sub>2e</sub> )	Net Emissions Reductions from 2024 Installations (MT CO <sub>2e</sub> )
2021	10,889	2.958267	0.660306	2.297962	-	-	-
2022	10,889	2.879770	0.649635	2.230134	2.230134	-	-
2023	10,889	2.800597	0.638337	2.162260	2.162260	2.162260	-
2024	10,889	2.721629	0.627667	2.093962	2.093962	2.093962	2.093962
2025	10,889	2.641966	0.616997	2.024969	2.024969	2.024969	2.024969
2026	10,889	2.571186	0.606954	1.964232	1.964232	1.964232	1.964232
2027	10,889	2.508168	0.596284	1.911885	1.911885	1.911885	1.911885
2028	10,889	2.452275	0.585613	1.866662	1.866662	1.866662	1.866662
2029	10,889	2.402544	0.575571	1.826973	1.826973	1.826973	1.826973
2030	10,889	2.358442	0.564900	1.793542	1.793542	1.793542	1.793542
2031	10,889	2.319824	0.527240	-	1.792583	1.792583	1.792583
2032	10,889	2.285534	0.489580	-	2.230134	1.795954	1.795954
2033	10,889	2.255543	0.451920	-	-	-	1.803623
<b>TOTAL</b>				20.173	19.667	19.233	18.874

<b>Total Net GHG Emissions Reductions</b>			
<b>Year of Installation</b>	<b>Reductions per EV Charging Unit (MT CO<sub>2</sub>e)</b>	<b>Number of EV Charging Units</b>	<b>Total Net Reductions (MT CO<sub>2</sub>e)</b>
2021	20.173	250	5,043
2022	19.667	250	4,917
2023	19.233	250	4,808
2024	18.874	250	4,719
<b>TOTAL</b>		<b>1,000</b>	<b>19,487</b>



### EMISSIONS BY YEAR

IBEC NET NEW EMISSIONS  
and  
ADDITIONAL EMISSIONS - HYPOTHETICAL 100% BACKFILL AT OTHER VENUES



	Construction	Ancillary Uses	New LA Clippers Games at IBEC	Relocated LA Clippers Games at IBEC	Total LA Clippers Games at IBEC	Market-Shifted Third-Party Events at IBEC	Net New Third-Party Events at IBEC	Total Third-Party Events at IBEC	Vacated LA Clippers Event Days Backfilled at Staples Center	Market-Shifted Events Backfilled at Other Venues
AB 987 Application	Net New	Net New	2	47	49	135	59	194	7	-
Hypothetical 100% Backfill at Other Venues Scenario	Net New	Net New	2	47	49	135	59	194	47	135