

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
Three-Year Average	12	27	8	47

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%
Three-Year Average	8	47	16.3%	16	41	39.5%

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
Occupied Event Assumption	0	4	3

* Available event days after Clippers relocation.

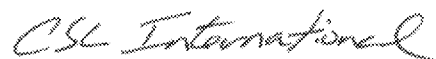
As shown, it is assumed that the 12 double-booked event days during which the Clippers played on the same day as another tenant would not be occupied by any other use. Of the approximately 27 Monday-Thursday events days that would become available at Staples Center, approximately 16.3 percent, or four, 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.

Overview of Projected IBEC Utilization					
Event Type	# Events	Average Attendance		Total Attendance	
		Turnstile Attendance	Maximum Attendance	Turnstile Attendance	Maximum Attendance
<u>LA Clippers Games:</u>					
Exhibition	3	12,000	18,000	36,000	54,000
Regular Season	41	16,000	18,000	656,000	738,000
Total	44	15,727	18,000	692,000	792,000
<u>Third-Party Events:</u>					
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
Total	78	6,872	9,436	536,000	736,000
Total	122	10,066	12,525	1,228,000	1,528,000

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.

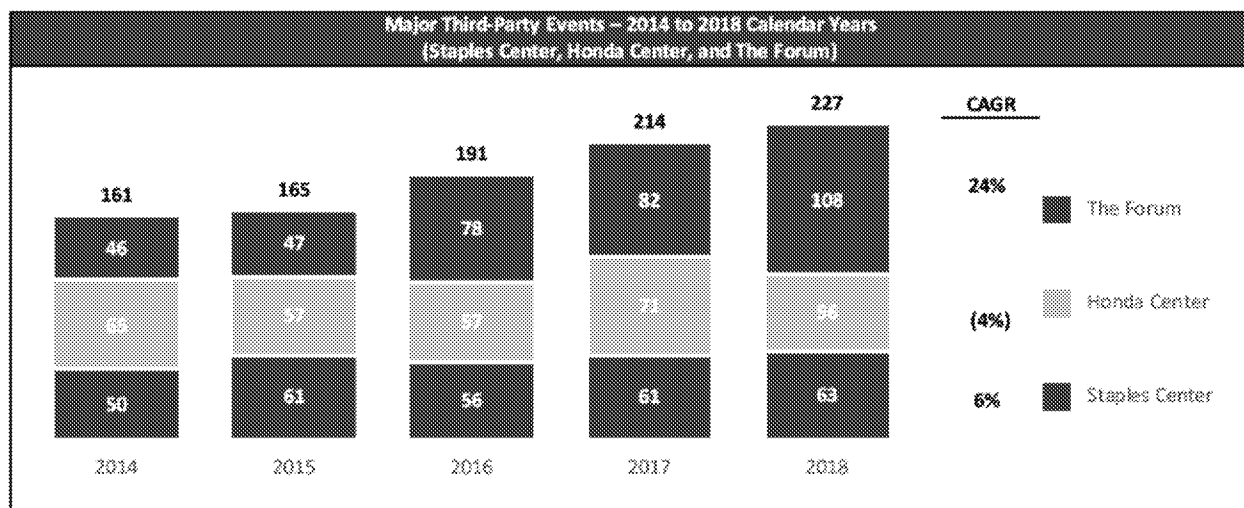
In addition to Clippers home games, it is estimated that IBEC will host a total of 78 major third-party events, consisting of 23 concerts, 20 family shows, and 35 other events (collectively, "Major Third-Party Events"). It should be noted that the other events category could include, but is not limited 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.



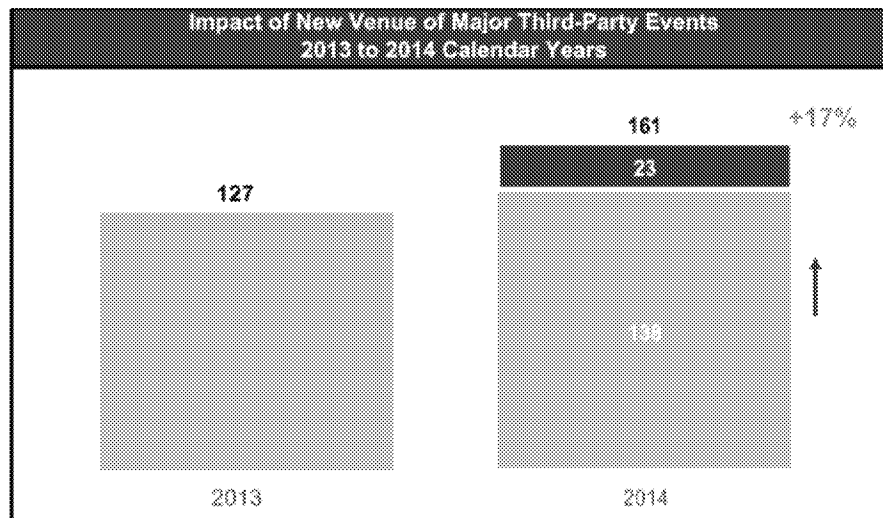
Source: Pollstar; Arena websites.

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.

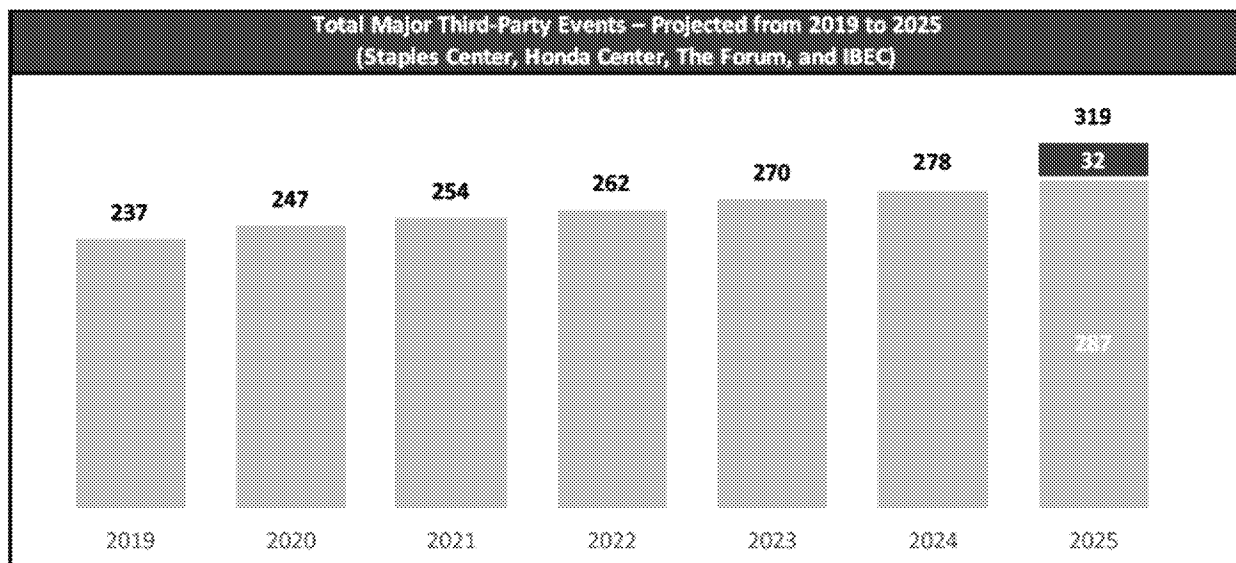
In its first year of operations, The Forum hosted 46 Major-Third Party Events. Based on industry trends, the overall growth in the entertainment industry, and historical event activity, it is reasonable to assume that

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.

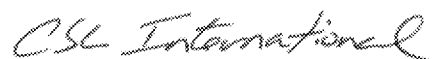


Overall, it is reasonably estimated that the portion of Major Third-Party Events anticipated to be hosted by IBEC that could be considered new to the market could total 41 percent (32 of 78 events). Based on a review of event characteristics, CSL anticipates that the event category to be the most likely 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

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 Bowl¹, 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

¹ 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
Proposed IBEC Project				
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	16,866	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
Subtotal (Base Case EIR)			6.6	
Alternate Prairie Access Variant				
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)
Subtotal (Project Variant)			1.0	
Total			7.6	

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 Bowl², 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) documentation³. 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).

²“Project Condor, Buildings That Are Proposed to be Demolished”, dated November 14, 2018

³Design and Construction”, July 2, 2018, Water Efficiency



a. Sports Arena

Based on information provided by Murphy's Bowl⁴, 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 Bowl⁵, 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.

⁴ "Inglewood Basketball & Entertainment Center, Anticipated Annual Events Characteristics" provided by Murphy's Bowl.

⁵ 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
LA Clippers Home Games							
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
Concerts							
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
Family Shows							
20 per year	530	8,500	13.7	2.7	20	608,200	1.9
Other Events							
35 per year	480	7,500	13.7	2.7	35	945,100	2.9
Corporate/Community Events							
100 per year	25	2,000	13.7	2.7	100	579,200	1.8
Plaza Events							
16 per year	25	4,000	13.7	2.7	16	179,900	0.6
Practice Events							
260 per year [3]	54	0	13.7	2.7	260	192,000	0.6
Cooling Towers							
Cooling Towers [4]						6,000,000	18.4
Total						12,855,400	39.5

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
Total				20,630,865	63.3

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 Avenue⁶ 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

⁶http://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)
Total	102.8	

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 Council⁷, 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 documentation⁸, 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:

⁷ <https://www.usgbc.org/articles/whats-difference-between-lead-credit-lead-prerequisite-and-lead-point>

⁸ “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)⁹:

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

⁹ "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 documentation¹⁰, 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 Tool¹¹. Stetson incorporated the IBEC Project landscape information from Section III(f), as well as climate data recommended by the EPA¹², 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).

¹⁰ "LEED v4 for Building Design and Construction", July 2, 2018, Water Efficiency (page 56)

¹¹ <https://www.epa.gov/watersense/water-budget-tool>

¹² <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 AFY¹³. 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

¹³ 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
<u>Indoor</u>				
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%
Subtotal - Indoor	69.3	41.2	28.1	41%
<u>Outdoor</u>				
Landscape	14.3	6.6	-	-
Outdoor Washdown	0.7	0.7	-	-
Subtotal - Outdoor	15.0	7.3	-	-
<u>Other</u>				
Arena and Plaza Events [2]	18.4	14.7	-	-
Subtotal - Other	18.4	14.7	-	-
Total	102.8	63.3	-	-

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	
Sub-Total						2.7			
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	
Sub-Total						13.7			
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	
Sub-Total						13.2			
Gross sf/Employee						200	Source [2] Table 8	Source [2] Table 8	
GPD per 1,000 gross sf						66			
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	
Total GPD per 1,000 gross sf						99			

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		
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 West Parking garage = 192,063 sf Outdoor Hardscape = 174,546sf	5 5 5	gal/min gal/min gal/min	30 30 30	min/1,000 sf min/1,000 sf min/1,000 sf	2 2 4	300 300 600	Source [2] Table 8 Source [2] Table 8 Source [2] Table 8	Source [2] Table 8 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) (using total area of 1,000,000 sf)						768,000		
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
				Total GPY	6,843,750

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 Prane Ave.
City, State, Zip Code:	Inglewood, CA 90303
Peak Watering Month:	July

Obtain from Water Budget Data Finder at [https://www.epa.gov/water-sense/water-budget-data-finder](https://www.epa.gov/watersense/water-budget-data-finder)

Is an irrigation system being installed on this site? 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_o). The following formula is used to calculate the baseline:

$$\text{Baseline} = ET_o \times A \times C_u$$

Where:
ET_o = Local reference evapotranspiration (inches/month)
A = Landscaped area (square feet)
C_u = 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:

$$\text{LWA} = 0.70 \times \text{Baseline}$$

Where:
LWA = Landscape water allowance (gallons/month)
Baseline = ET_o 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_o)
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/water-sense/water-budget-data-finder](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_H = Landscape water requirement for the hydrozone (gallons/month)
 DU_{LQ} = Lower quarter distribution uniformity
 ET_o = Local reference evapotranspiration (inches/month)
 K_L = Landscape coefficient for the type of plant in that hydrozone (dimensionless)
 R_o = Allowable rainfall, designated by WaterSense as 25% of average peak monthly rainfall (R)
 A = Area of the hydrozone (square feet)
 C_c = Conversion factor (0.0233 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 Finder at <http://www.irs.org/irac/waterbudget/waterbudgetdatafinder>.

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 _L)	Irrigation Type	Distribution Uniformity (DU _{LQ})	LWR _H (gall/month)
1	2,300	Trees - Medium water requirement	0.5	Drip - Standard	70%	8,000
2	2,300	Trees - Low water requirement	0.2	Drip - Standard	70%	2,943
3	41,277	Trees - Medium water requirement	0.5	Drip - Standard	70%	115,253
4	41,277	Trees - Low water requirement	0.2	Drip - Standard	70%	48,093
5	580	Trees - Medium water requirement	0.5	Drip - Standard	70%	1,549
6	580	Trees - Low water requirement	0.2	Drip - Standard	70%	619
7	13,235	Trees - Medium water requirement	0.5	Drip - Standard	70%	37,423
8	13,235	Trees - Low water requirement	0.2	Drip - Standard	70%	14,369
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	3,835	Trees - Medium water requirement	0.5	Drip - Standard	70%	10,857
12	3,835	Trees - Low water requirement	0.2	Drip - Standard	70%	4,321
13						-
14						-
15						-
TOTAL AVERAGE	132,112					Landscape Water Requirement for the Site (gall/month): 269,244

Table 2. Plant Type or Landscape Feature and Associated Landscape Coefficient

Plant Type or Landscape Feature	K _L		
	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	0.6	0.7	0.8
Pool, Spa, or Water Feature		0.8	
Permeable Hardscape		0	
Nonvegetated Softscape		0	

Source: Based on USDA for Home Rating System 2006.

Table 3. Distribution Uniformity

Irrigation Type	DU _{LQ} or EUP
Drip - Standard	70%
Drip - Press Comp	80%
Fixed Spray	85%
Microspray	70%
Nozzle	75%
No Irrigation	NA

Lower quarter distribution uniformity (DU_{LQ}) and/or EUP is a uniformity term and neither address the ability of the system to deliver water to the plants. Source: The Irrigation Association, October 2011 (in Landscape Irrigation Scheduling and Water Management, 4th Edition).

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		
Shrubs	x	x		
Groundcover	x	x		
Turfgrass	x	x	x	x

*Microspray may only be used on irrigated areas that support 1/3 or more of the surface according to the IRRIGATION SCHEDULING AND WATER MANAGEMENT, 4th Edition, 2011. *Microspray is not a recognized irrigation system and is not included in the WaterSense Water Budget Approach. Microspray is not included in the WaterSense Water Budget Approach. Microspray is not included in the WaterSense Water Budget Approach. Microspray is not included in the WaterSense Water Budget Approach.

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 _L = 0.2)	x		
Trees, Shrubs, or Groundcover with Medium or High Water Requirements (K _L > 0.2)		x	
Turfgrass with Low, Medium, or High Water Requirements (K _L > 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 landscape water budgeting and irrigation systems.

OUTPUT - WATER REQUIREMENT FOR THE SITE

Monthly landscape water requirement (gallons/month) based on the site's peak watering month

Next Step: Click on the next tab labeled Part 3 - 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
LA Clippers Home Games							
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
Concerts							
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
Family Shows							
20 shows per year	530	8,500	8.1	1.3	20	309,400	0.9
Other Events							
35 events per year	480	7,500	8.1	1.3	35	481,200	1.5
Corporate/Community Events							
100 per year	25	2,000	8.1	1.3	100	282,800	0.9
Plaza Events							
16 per year	25	4,000	8.1	1.3	16	87,300	0.3
Practice Events							
260 per year [3]	54	0	8.1	1.3	260	114,300	0.35
Cooling Towers							
Cooling Towers [4]						4,800,000	14.7
Total						8,297,700	25.5

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
Total				12,322,465	37.8

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	
					Sub-Total	1.3			
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	
					Sub-Total	8.1			
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	
					Sub-Total	7.7			
					Gross sf/Employee	200	Source [2] Table 8	Source [2] Table 8	
					GPD per 1,000 gross sf	38.5			
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	
					Total GPD per 1,000 gross sf	68.5			

[3] Pursuant to communications with Murphy's Bowl, 2018

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	
					Sub-Total	1.3125			
					gross sf/customer	10	Source [2] Table 8		
					GPD per 1,000 gross sf	131.25			
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	
					Sub-Total	4.9125			
					Gross sf/Employee	300	Source [2] Table 8	Source [2] Table 8	
					GPD per 1,000 gross sf	16			
					Total GPD per 1,000 gross sf	148			

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	165	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
					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	ET _o	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 = (ET _o) x (0.62) x ((PF x IA) / IE) Murphy's Bowl (Landscape Narrative)
					Total GPY	2,164,861

*ET_o 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
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
Total Project Emissions (Indirect + Direct)	3,834	8,373	7,437	13,647	24,141	23,466	22,861	22,316	21,822	21,373	20,795	20,222	19,684	19,178	18,702	18,254	17,831
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
NET GHG EMISSIONS	2,625	7,164	6,228	6,398	10,852	10,177	9,572	9,027	8,533	8,084	7,505	6,933	6,395	5,889	5,413	4,965	4,542
Cumulative Total	2,625	9,789	16,016	22,414	33,266	43,443	53,015	62,042	70,575	78,659	86,164	93,097	99,492	105,381	110,794	115,759	120,301
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
Total Project Emissions (Indirect + Direct)	17,431	17,049	16,684	16,333	15,994	15,663	15,340	15,023	15,004	14,989	14,977	14,967	14,959	14,959	14,959	14,959	14,959
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
NET GHG EMISSIONS	4,142	3,760	3,395	3,044	2,704	2,374	2,051	1,733	1,715	1,700	1,688	1,678	1,669	1,669	1,669	1,669	1,669
Cumulative Total	124,442	128,202	131,597	134,641	137,345	139,719	141,770	143,504	145,218	146,918	148,606	150,284	151,953	153,623	155,292	156,962	158,631

Project Condition	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
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
Total Project Emissions (Indirect + Direct)	3,834	8,373	7,437	11,911	20,805	20,247	19,745	19,292	18,879	18,502	17,990	17,483	17,004	16,550	16,120	15,713	15,327
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
NET GHG EMISSIONS	2,625	7,164	6,228	4,662	7,516	6,958	6,456	6,002	5,589	5,213	4,701	4,193	3,714	3,260	2,831	2,424	2,037
Cumulative Total	2,625	9,789	16,016	20,678	28,194	35,151	41,607	47,609	53,198	58,411	63,112	67,305	71,019	74,280	77,111	79,534	81,572
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
Total Project Emissions (Indirect + Direct)	14,958	14,628	14,285	13,954	13,632	13,318	13,010	12,706	12,690	12,677	12,666	12,657	12,649	12,649	12,649	12,649	12,649
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
NET GHG EMISSIONS	1,669	1,339	995	665	343	29	(279)	(584)	(600)	(613)	(623)	(632)	(640)	(640)	(640)	(640)	(640)
Cumulative Total	83,241	84,580	85,575	86,240	86,583	86,611	86,332	85,748	85,149	84,536	83,913	83,280	82,640	82,000	81,359	80,719	80,079

Project Condition	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
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
Total Project Emissions (Indirect + Direct)	3,834	8,373	7,437	11,795	20,575	20,020	19,522	19,071	18,661	18,288	17,877	17,291	16,823	16,380	15,961	15,566	15,190
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
NET GHG EMISSIONS	2,625	7,164	6,228	4,545	7,286	6,731	6,232	5,782	5,372	4,998	4,498	4,001	3,533	3,091	2,672	2,276	1,901
Cumulative Total	2,625	9,789	16,016	20,562	27,848	34,579	40,811	46,593	51,965	56,964	61,461	65,463	68,996	72,087	74,759	77,035	78,936
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
Total Project Emissions (Indirect + Direct)	14,833	14,514	14,181	13,862	13,551	13,248	12,951	12,658	12,642	12,629	12,618	12,609	12,602	12,602	12,602	12,602	12,602
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
NET GHG EMISSIONS	1,544	1,225	892	573	262	(41)	(338)	(631)	(647)	(660)	(671)	(680)	(688)	(688)	(688)	(688)	(688)
Cumulative Total	80,480	81,704	82,597	83,169	83,432	83,391	83,052	82,421	81,774	81,114	80,443	79,763	79,075	78,387	77,699	77,012	76,324

Notes: Units are in metric tons CO₂e 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		
	Total Project Emissions (Indirect + Direct)	3,860	8,373	7,437	13,647	24,141	23,466	22,861	22,316	21,822	21,373	20,795	20,222	19,684	19,178	18,702	18,254	17,831		
	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	
	NET GHG EMISSIONS	2,591	7,105	6,168	6,339	10,793	10,118	9,513	8,968	8,474	8,025	7,446	6,873	6,336	5,830	5,354	4,905	4,483		
	Cumulative Total	2,591	9,696	15,864	22,203	32,996	43,114	52,626	61,594	70,068	78,092	85,538	92,412	98,747	104,577	109,931	114,836	119,319		
	GHG Emissions without TDM and without Project Design Features	Emissions Source																		
Construction																				
Project 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		
Backfilled Operations		639	624	609	594	580	566	552	538	537	537	537	537	536	536	536	536	536		
Total Project Emissions (Indirect + Direct)		17,431	17,049	16,684	16,333	15,994	15,663	15,340	15,023	14,904	14,989	14,977	14,967	14,959	14,959	14,959	14,959	14,959		
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		
NET GHG EMISSIONS		4,082	3,701	3,335	2,985	2,645	2,315	1,992	1,674	1,655	1,641	1,629	1,619	1,610	1,610	1,610	1,610	1,610		
Cumulative Total		123,402	127,102	130,438	133,423	136,068	138,382	140,374	142,048	143,704	145,344	146,973	148,591	150,202	151,812	153,422	155,032	156,643		

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		
	Total Project Emissions (Indirect + Direct)	3,860	8,373	7,437	11,911	20,805	20,247	19,745	19,292	18,879	18,502	17,990	17,483	17,004	16,550	16,120	15,713	15,327		
	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		
	NET GHG EMISSIONS	2,591	7,105	6,168	4,602	7,456	6,898	6,396	5,943	5,530	5,153	4,814	4,434	4,055	3,675	3,295	2,915	2,535		
	Cumulative Total	2,591	9,696	15,864	20,467	27,923	34,821	41,218	47,161	52,691	57,844	62,486	66,620	70,275	73,476	76,248	78,612	80,590		
	GHG Emissions with TDM and 50% Project Design Features	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		
Total Project Emissions (Indirect + Direct)		14,958	14,628	14,285	13,954	13,632	13,318	13,010	12,706	12,690	12,677	12,666	12,657	12,649	12,649	12,649	12,649	12,649		
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		
NET GHG EMISSIONS		1,610	1,280	936	605	284	(30)	(339)	(643)	(659)	(672)	(683)	(692)	(699)	(699)	(699)	(699)	(699)		
Cumulative Total		82,200	83,480	84,416	85,021	85,305	85,275	84,936	84,293	83,634	82,962	82,279	81,588	80,888	80,189	79,489	78,790	78,090		

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		
	Total Project (Indirect + Direct)	3,860	8,373	7,437	11,795	20,575	20,020	19,522	19,071	18,661	18,288	17,787	17,291	16,823	16,380	15,961	15,566	15,190		
	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		
	NET GHG EMISSIONS	2,591	7,105	6,168	4,486	7,227	6,672	6,173	5,723	5,313	4,939	4,438	3,942	3,474	3,031	2,613	2,217	1,842		
	Cumulative Total	2,591	9,696	15,864	20,350	27,577	34,249	40,422	46,145	51,458	56,397	60,835	64,777	68,252	71,283	73,896	76,113	77,955		
	GHG Emissions with TDM and 100% Project Design Features	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		
Total Project (Indirect + Direct)		14,833	14,514	14,181	13,862	13,551	13,248	12,951	12,658	12,642	12,629	12,618	12,609	12,602	12,602	12,602	12,602	12,602		
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		
NET GHG EMISSIONS		1,484	1,165	833	514	203	(100)	(397)	(690)	(707)	(719)	(730)	(739)	(747)	(747)	(747)	(747)	(747)		
Cumulative Total		79,439	80,605	81,437	81,951	82,154	82,054	81,656	80,966	80,259	79,540	78,810	78,070	77,323	76,576	75,829	75,082	74,335		

Notes: Units are in metric tons CO₂e 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 ₂ 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
Total	13,289.29	13,348.53

Component 1 Existing Onsite Buildings (MT CO ₂ 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
Total	1,209.41	1,268.65

Component 2a Existing LA Clippers Team Offices (MT CO ₂ e/year)		
Emission Source	MT per year	
Area	0.00	
Energy	115.24	
Mobile	211.54	
Waste	9.29	
Water	28.39	
Total	364.46	

Component 3 Existing Clippers Games at Staples Center (MT CO ₂ e/year)		
Emission Source	MT per year	
Area	-	
Energy	998.11	
Mobile	5,363.75	
Waste	122.45	
Water	486.81	
Total	6,971.12	

Component 4 Market-Shifted Events (MT CO ₂ e/year)		
Emission Source	MT per year	
Mobile	2,630.01	
Area	-	
Energy	1,503.00	
Waste	114.26	
Water	497.02	
Total	4,744.29	

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%
Total	214.00	100%

Total GHG Emissions from Other Los Angeles Area Venues		
Emission Source	MT CO ₂ e/year	MT CO ₂ e/year/Attendee
Area	0.00	-
Energy	16,333.05	0.003538
Mobile	-	-
Waste	1241.69	0.00
Water	5401.09	0.00
Total	22,975.84	0.004977509

The Forum	
Emission Source	MT CO ₂ e/year
Area	0.00
Energy	1,116.25
Mobile	-
Waste	224.47
Water	712.48
Total	2,053.20

Honda Center	
Emission Source	MT CO ₂ e/year
Area	0.00
Energy	10,362.34
Mobile	-
Waste	421.68
Water	2,320.93
Total	13,104.95

Staples Center	
Emission Source	MT CO ₂ e/year
Area	0.00
Energy	4,854.46
Mobile	-
Waste	595.55
Water	2,367.68
Total	7,817.69

Construction Emissions Summary

Construction Emissions for Proposed IBEC Project and Variants

Construction Emissions (MT CO₂e)		
Year	Proposed Project	Variants
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
Total	20,832.98	20,858.58

Notes: Units are in metric tons CO₂e per year

Proposed Project	Construction of Arena + Ancillary Land Uses	Construction of Parking Garages
Year	MT CO₂e	
2021	1749.51	2084.94
2022	5630.46	2742.76
2023	4773.87	2663.05
2024	717.04	471.35
Total	12,870.88	7,962.10

Removal of additional buildings for the Variant:

Variant	GHG Emissions (MT CO₂e)
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
Total	584.99	563.25	543.65	525.58	508.82	493.17	478.50	465.41	452.45	440.25	428.74	417.89	407.62	397.91	388.68

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
Total	379.86	371.40	363.25	355.34	347.63	340.08	332.65	332.24	331.91	331.64	331.42	331.23	331.23	331.23	331.23	331.23

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
Total	340.91	334.44	327.98	321.51	315.04	308.58	302.11	295.64	289.18	282.71	276.24	269.78	263.31	256.84	250.38

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
Total	243.91	237.44	230.98	224.51	218.04	211.58	205.11	205.11	205.11	205.11	205.11	205.11	205.11	205.11	205.11	205.11

Note:
Units are in MT CO₂e.

**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
Total	11,996.05	23,243.69	22,594.54	22,013.97	21,492.49	21,020.50	20,592.58	20,033.50	19,480.20	18,961.37	18,473.29	18,014.60	17,583.04	17,176.64	16,791.87

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
Total	16,425.62	16,075.05	15,739.01	15,413.80	15,097.56	14,788.68	14,484.78	14,466.54	14,452.05	14,440.34	14,430.61	14,422.45	14,422.45	14,422.45	14,422.45	14,422.45

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 CO₂e.

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
Total	10,143.42	19,677.63	19,148.71	18,674.47	18,247.34	17,859.67	17,507.15	17,025.79	16,549.05	16,099.78	15,675.03	15,273.73	14,894.64	14,535.61	14,193.83

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
Total	13,890.21	13,572.61	13,267.81	12,971.64	12,682.62	12,399.47	12,120.29	12,104.67	12,092.03	12,081.60	12,072.76	12,065.17	12,065.17	12,065.17	12,065.17	12,065.17

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 CO₂e.

**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
Total	116.34	229.54	226.47	223.39	220.32	217.25	214.18	203.07	191.96	180.85	169.75	158.64	147.53	136.42	125.31

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
Total	114.20	103.09	91.98	80.88	69.77	58.66	47.55	47.55	47.55	47.55	47.55	47.55	47.55	47.55	47.55	47.55

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
Total	10,259.72	19,907.17	19,375.18	18,897.86	18,467.67	18,076.93	17,721.33	17,228.86	16,741.01	16,280.64	15,844.78	15,432.37	15,042.17	14,672.03	14,319.14

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
Total	14,004.41	13,675.71	13,359.79	13,052.52	12,752.38	12,458.13	12,167.84	12,152.22	12,139.58	12,129.15	12,120.31	12,112.72	12,112.72	12,112.72	12,112.72	12,112.72

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 CO₂e.

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
Total	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

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	-	-	-	-	-	-	-	-	-	-
Total	70.56	58.80	47.04	35.28	23.52	11.76	-	-	-	-	-	-	-	-	-	-

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 CO₂e.

Total Amount of Reductions Achieved Over Project Lifetime	2,439.88 MT CO₂e
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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
Total															

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	-	-	-	-	-	-	-	-	-	-
Total																

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 CO₂e.

Total Amount of Reductions Achieved Over Project Lifetime	52,889.44 MT CO₂e
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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
Total															

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
Total																

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 CO₂e.

Total Amount of Reductions Achieved Over Project Lifetime	31,010.18 MT CO₂e
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Mobile Source Emissions

Mobile Source Emissions
 IREC In-situon Event Attendees - Light Duty Vehicles (Auto and TNC Trip)

Project Condition (Maximum Event Attendance) per/for	Site	Estimated Annual Trips					
		Weekday			Weekend		
		Days with Events	Days without Events	Total	Days with Events	Days without Events	Total
Arena (Employed)	Varies	113,372	0	71,648	0	184,940	
Arena (Attendees)	Varies	1,128,758	0	720,238	0	1,848,996	
LA Clippers Organization Office	275 EMP	67,778	48,159	0	0	115,937	
LA Clippers Team Practice & Training Facility	54 EMP	12,667	8,740	0	0	21,407	
Sports Medicine Clinic	25 EMP	61,366	42,396	0	0	103,762	
Community Space	15 TSP	51,911	36,884	0	0	88,795	
Full-Service Plaza Restaurant/Bar	7 TSP	47,618	45,805	13,716	6,616	132,815	
Full-Service Restaurant/ Lounge	8 TSP	56,425	51,907	19,937	7,332	151,701	
Coffee Shop	3 TSP	18,618	13,606	4,616	1,616	38,856	
Quick-Service Restaurant (no drive thru)	6 TSP	102,388	76,806	48,178	13,973	250,344	
LA Clippers Team Store	7 TSP	21,500	15,500	2,500	1,000	40,500	
Other General Retail & Service	17 TSP	52,667	38,266	14,650	5,227	106,803	
Hotel (no full service, no restaurant)	180 RM	91,656	63,134	79,034	11,291	247,115	
Total		1,988,862	626,398	1,157,388	64,000	3,836,648	

Project Condition (Maximum Event Attendance) per/for	Site	Estimated Annual Trips					
		Weekday			Weekend		
		Days with Events	Days without Events	Total	Days with Events	Days without Events	Total
Arena (Employed)	Varies	75,638	0	48,099	0	123,737	
Arena (Attendees)	Varies	802,888	0	500,897	0	1,303,785	
LA Clippers Organization Office	275 EMP	66,390	45,781	0	0	112,171	
LA Clippers Team Practice & Training Facility	54 EMP	12,722	8,740	0	0	21,462	
Sports Medicine Clinic	25 EMP	60,938	42,396	0	0	103,334	
Community Space	15 TSP	48,815	35,840	0	0	84,655	
Full-Service Plaza Restaurant/Bar	7 TSP	45,237	42,817	12,930	6,095	127,079	
Full-Service Restaurant/ Lounge	8 TSP	51,667	46,928	16,668	5,939	135,192	
Coffee Shop	3 TSP	18,207	13,456	4,520	1,616	37,809	
Quick-Service Restaurant (no drive thru)	6 TSP	97,778	71,905	42,760	12,334	224,777	
LA Clippers Team Store	7 TSP	20,988	14,988	2,500	1,000	39,476	
Other General Retail & Service	17 TSP	50,605	36,606	13,651	4,576	105,437	
Hotel (no full service, no restaurant)	180 RM	91,656	63,134	79,034	11,291	247,115	
Total		1,659,210	598,672	902,875	61,364	3,222,121	

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)	770.29	729.49	713.14	689.90	669.52	651.37	635.26	622.42	609.88	598.02	589.34	581.10	574.19	568.33	563.57	559.03	556.40	553.84	552.78	550.13	548.82	547.75	546.93	546.20	545.65	545.18	544.77	
Arena (Attendees)	13,133.36	12,892.52	12,651.36	12,410.20	12,169.04	11,927.88	11,686.72	11,445.56	11,204.40	10,963.24	10,722.08	10,480.92	10,239.76	10,000.00	9,760.00	9,520.00	9,280.00	9,040.00	8,800.00	8,560.00	8,320.00	8,080.00	7,840.00	7,600.00	7,360.00	7,120.00	6,880.00	
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	3.34	
LA Clippers Team Practice & Training Facility	82.27	79.98	77.69	75.40	73.11	70.82	68.53	66.24	63.95	61.66	59.37	57.08	54.79	52.50	50.21	47.92	45.63	43.34	41.05	38.76	36.47	34.18	31.89	29.60	27.31	25.02	22.73	
Sports Medicine Clinic	467.38	448.13	428.88	409.63	390.38	371.13	351.88	332.63	313.38	294.13	274.88	255.63	236.38	217.13	197.88	178.63	159.38	140.13	120.88	101.63	82.38	63.13	43.88	24.63	5.38	-6.87	-15.32	
Community Space	211.79	203.73	195.67	187.61	179.55	171.49	163.43	155.37	147.31	139.25	131.19	123.13	115.07	107.01	98.95	90.89	82.83	74.77	66.71	58.65	50.59	42.53	34.47	26.41	18.35	10.29	2.23	
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	0.04	-12.62	
Full-Service Restaurant/ Lounge	336.25	324.57	312.90	301.22	289.55	277.87	266.20	254.52	242.85	231.17	219.50	207.82	196.15	184.47	172.80	161.12	149.45	137.77	126.10	114.42	102.75	91.07	79.40	67.72	56.05	44.37	32.70	
Coffee Shop	86.18	82.90	79.62	76.34	73.06	69.78	66.50	63.22	59.94	56.66	53.38	50.10	46.82	43.54	40.26	36.98	33.70	30.42	27.14	23.86	20.58	17.30	14.02	10.74	7.46	4.18	0.90	
Quick-Service Restaurant (no drive thru)	668.61	661.71	654.81	647.91	641.01	634.11	627.21	620.31	613.41	606.51	599.61	592.71	585.81	578.91	572.01	565.11	558.21	551.31	544.41	537.51	530.61	523.71	516.81	509.91	503.01	496.11	489.21	
LA Clippers Team Store	145.51	139.63	133.75	127.87	121.99	116.11	110.23	104.35	98.47	92.59	86.71	80.83	74.95	69.07	63.19	57.31	51.43	45.55	39.67	33.79	27.91	22.03	16.15	10.27	4.39	-1.49	-7.19	
Other General Retail & Service	327.16	319.25	311.34	303.43	295.52	287.61	279.70	271.79	263.88	255.97	248.06	240.15	232.24	224.33	216.42	208.51	200.60	192.69	184.78	176.87	168.96	161.05	153.14	145.23	137.32	129.41	121.50	
Hotel (no full service, no restaurant)	589.00	565.83	542.66	519.49	496.32	473.15	449.98	426.81	403.64	380.47	357.30	334.13	310.96	287.79	264.62	241.45	218.28	195.11	171.94	148.77	125.60	102.43	79.26	56.09	32.92	9.75	-13.42	
Total	16,641.79	15,976.75	15,311.71	14,646.67	13,981.63	13,316.59	12,651.55	11,986.51	11,321.47	10,656.43	10,000.00	9,343.57	8,687.14	8,030.71	7,374.28	6,717.85	6,061.42	5,404.99	4,748.56	4,092.13	3,435.70	2,779.27	2,122.84	1,466.41	810.00	154.59	-111.82	

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)	520.57	499.75	481.94	466.28	452.47	440.20	429.31	420.61	412.15	404.74	398.28	392.75	388.04	384.13	380.87	378.20	376.02	374.29	372.90	371.78	370.90	370.17	369.59	369.13	368.75	368.44	368.18	
Arena (Attendees)	8,944.27	8,698.56	8,452.85	8,207.14	7,961.43	7,715.72	7,470.01	7,224.30	6,978.59	6,732.88	6,487.17	6,241.46	6,000.00	5,758.54	5,517.02	5,275.50	5,033.98	4,792.46	4,550.94	4,309.42	4,067.90	3,826.38	3,584.86	3,343.34	3,101.82	2,860.30	2,618.78	
LA Clippers Organization Office	489.74	471.36	453.00	434.63	416.27	397.90	379.54	361.17	342.81	324.44	306.08	287.71	269.35	250.98	232.62	214.25	195.88	177.52	159.15	140.78	122.42	104.05	85.68	67.31	48.95	30.58	12.21	
LA Clippers Team Practice & Training Facility	82.27	79.98	77.69	75.40	73.11	70.82	68.53	66.24	63.95	61.66	59.37	57.08	54.79	52.50	50.21	47.92	45.63	43.34	41.05	38.76	36.47	34.18	31.89	29.60	27.31	25.02	22.73	
Sports Medicine Clinic	444.03	425.75	407.47	389.19	370.91	352.63	334.35	316.07	297.79	279.51	261.23	242.95	224.67	206.39	188.11	169.83	151.55	133.27	114.99	96.71	78.43	60.15	41.87	23.59	5.31	-12.97	-21.52	
Community Space	201.20	193.15	185.10	177.05	169.00	160.95	152.90	144.85	136.80	128.75	120.70	112.65	104.60	96.55	88.50	80.45	72.40	64.35	56.30	48.25	40.20	32.15	24.10	16.05	8.00	0.00	-8.00	
Full-Service Plaza Restaurant/Bar	300.95	289.92	278.89	267.86	256.83	245.80	234.77	223.74	212.71	201.68	190.65	179.62	168.59	157.56	146.53	135.50	124.47	113.44	102.41	91.38	80.35	69.32	58.29	47.26	36.23	25.20	14.17	
Full-Service Restaurant/ Lounge	324.94	313.12	301.30	289.48	277.66	265.84	254.02	242.20	230.38	218.56	206.74	194.92	183.10	171.28	159.46	147.64	135.82	124.00	112.18	100.36	88.54	76.72	64.90	53.08	41.26	29.44	17.62	
Coffee Shop	53.62	51.86	50.10	48.34	46.58	44.82	43.06	41.30	39.54	37.78	36.02	34.26	32.50	30.74	28.98	27.22	25.46	23.70	21.94	20.18	18.42	16.66	14.90	13.14	11.38	9.62	7.86	
Quick-Service Restaurant (no drive thru)	635.02	629.62	624.22	618.82	613.42	608.02	602.62	597.22	591.82	586.42	581.02	575.62	570.22	564.82	559.42	554.02	548.62	543.22	537.82	532.42	527.02	521.62	516.22	510.82	505.42	500.02	494.62	
LA Clippers Team Store	139.23	133.71	128.19	122.67	117.15	111.63	106.11	100.59	95.07	89.55	84.03	78.51	72.99	67.47	61.95	56.43	50.91	45.39	39.87	34.35	28.83	23.31	17.79	12.27	6.75	1.23	-4.29	
Other General Retail & Service	339.21	332.99	326.77	320.55	314.33	308.11	301.89	295.67	289.45	283.23	277.01	270.79	264.57	258.35	252.13	245.91	239.69	233.47	227.25	221.03	214.81	208.59	202.37	196.15	189.93	183.71	177.49	
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	0.15	-23.42	
Total	12,189.34	11,738.49	11,287.54	10,836.59	10,385.64	9,934.69	9,483.74	9,032.79	8,581.84	8,130.89	7,679.94	7,228.99	6,778.04	6,327.09	5,876.14	5,425.19	4,974.24	4,523.29										

Mobile Source Emissions

IBEC Maximum Event Attendees - Other Vehicles (Shuttles, Vanpools, Charter Coaches, Minibuses)

Project Condition (Maximum Event Attendees)	Site	Transportation Demand Management Measures				Total
		Estimated Annual Trips				
		Weekday		Weekend		
Land Use	Days with Events	Days without Events	Days with Events	Days without Events		
Arena (employees)	Varies	2,912	0	1,828	0	4,740
Total		2,912	0	1,828	0	4,740

Project Condition (Maximum Event Attendees)	Site	Transportation Demand Management Measures				Total
		Estimated Annual Trips				
		Weekday		Weekend		
Land Use	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	6,896	0	4,238	0	10,914
A Arena's Organization Office	279 EWR	0	0	0	0	0
A Arena's Team Practice & Training Facility	54 EWR	0	0	0	0	0
Spencer's 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
A Arena's 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 RRH	0	0	0	0	0
Total		10,020	0	6,318	0	16,338

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)	108.35505	106.754886	105.703329	104.6521725	103.6019161	102.5498552	101.4987	100.447573	100.3872436	99.3351417	98.27576478	97.2105538	96.1501183	95.082827	94.0135777	92.944484	91.8755511	90.807334	89.739078	88.6710821	87.603465	86.536308	85.469613	84.403383	83.337629	82.272352	81.207554
Total	108.36	106.75	105.70	104.65	103.60	102.55	101.50	100.45	100.39	99.34	98.28	97.22	96.16	95.10	94.04	92.98	91.92	90.86	89.80	88.74	87.68	86.62	85.56	84.50	83.44	82.38	81.32

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)	103.95571	102.155644	100.5367227	101.5338769	103.5510361	107.361033	116.14535	115.5094273	114.873561	114.2376808	113.6016575	112.9657343	112.329811	111.6938877	111.0579644	110.422041	109.7861177	109.1501944	108.514271	107.8783477	107.2424244	106.6065011	105.9705777	105.3346544	104.6987311	104.0628077	103.4268844
Arena (attendees)	117.11235	115.3781312	114.2420617	113.1059522	111.9698427	110.8337333	109.6976238	108.5615143	107.4254048	106.2892953	105.1531858	104.0170763	102.8809668	101.7448573	100.6087478	99.4726383	98.3365288	97.2004193	96.0643098	94.9281903	93.7920808	92.6559713	91.5198618	90.3837523	89.2476428	88.1115333	86.9754238
Total	241.11	237.54	235.20	232.80	236.52	228.18	225.84	224.61	223.37	222.13	220.90	219.66	218.42	217.18	215.94	214.70	213.46	212.22	210.98	209.74	208.50	207.26	206.02	204.78	203.54	202.30	201.06

Conversion Factors	
gram	MT
1000000	1

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

	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 ₂ Emission Factors (g/m)	1,555.14	1,532.11	1,517,025.887	1,501,939.966	1,486,854.044	1,471,768.122	1,456,68	1,441,602.51	1,426,516.92	1,411,431.33	1,396,345.74	1,381,260.15	1,366,174.56	1,351,088.97	1,336,003.38	1,320,917.79	1,305,832.20	1,290,746.61	1,275,661.02	1,260,575.43	1,245,489.84	1,230,404.25	1,215,318.66	1,200,233.07	1,185,147.48	1,170,061.89
EMFAC2014 CO ₂ Emission Factors (MT/mi)	0.0015551	0.00153211	0.001517026	0.00150194	0.001486854	0.001471768	0.0014567	0.001441682	0.001426596	0.001411511	0.001396425	0.00138134	0.001366254	0.001351168	0.001336082	0.001320996	0.00130591	0.001290824	0.001275738	0.001260652	0.001245566	0.00123048	0.001215394	0.001200308	0.001185222	0.001170136	0.00115505

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 ₂ 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 ₂ 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
 Exhibit 47: H&A Check Hignets with Medium Concept

Distric (Average Event Attendance)						
Land Use	Size	Estimated Annual Trips				Total
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	7,300	0	0	0	0	0.00
Arena (attendees)	75,000	0	0	0	0	0.00
Total	29,400	0	0	0	0	0.00

Conversion Factors	
gram	1000000
kg	1

Assumption	Value	Assumptions
Attendee Trip Length (mi)	17.00	mi/hr to 60 mph (City Streets)
Employee Trip Length (mi)	14.00	mi/hr to 60 mph (City Streets)
Employee Trip Length (mi)	14.00	mi/hr to 60 mph (City Streets)

	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
DW-AC20.14 CO ₂ Emission Factors (g/hr)	263.9535	272.597349	262.8941774	254.340579	246.805814	240.1144113	234.0751	229.4492923	224.8132	220.75946	217.29131	214.23294	211.69305	209.52259	207.75117	206.29576	205.10759	204.16262	203.40212	202.79459	202.31246	201.91595	201.5697	201.26474	201.00146	200.7716	200.5733
DW-AC20.14 CO ₂ Emission Factors (MW/hr)	0.000284	0.000295	0.000288	0.000281	0.000275	0.000269	0.000264	0.000259	0.000254	0.000249	0.000244	0.000239	0.000234	0.000229	0.000224	0.000219	0.000214	0.000209	0.000204	0.000199	0.000194	0.000189	0.000184	0.000179	0.000174	0.000169	0.000164

Event Dates: 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		
25.08644338	24.028192	23.228208	22.470227	21.654039	21.213883	20.388706	20.279792	19.481371	19.544313	18.193413	18.930038	18.695797	18.510693	18.345393	18.19067	18.03751	17.88597	17.73529	17.58573	17.43737	17.29029	17.14449	17.00006	16.85719	16.71588	16.57613	16.43794	16.30131
345.6776789	331.65242	320.02836	309.62653	300.45439	292.30306	285.07933	279.23045	273.88376	268.79002	264.47489	260.8013	257.67313	255.06237	252.91089	251.1391	249.693	248.5413	247.6165	246.8769	246.2904	245.8027	245.4223	245.1151	244.8698	244.6584	244.452	244.252	244.058
170.75	155.94	148.22	142.26	137.22	133.24	129.77	126.99	124.54	122.32	120.27	118.37	116.58	114.89	113.29	111.77	110.33	108.96	107.65	106.39	105.17	104.00	102.87	101.78	100.73	99.71	98.72	97.76	96.83

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
	Total	606,603	25,584	239,498	0	871,685

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 ^a	Average Attendance
Preseason Games	3	12,700 ^b
Regular Season Games	41	18,736 ^c
Postseason Games	3	19,355 ^d

^a 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.

^b Preseason attendance estimated at two-thirds basketball game capacity at Staples Center

^c Average reported attendance during 5-year period, 2013-14 to 2017-18 NBA seasons. Source: <http://www.espn.com/nba/attendance/>

^d 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

	2018
EMFAC2014 CO ₂ Emission Factors (g/mi)	350.5573411
EMFAC2014 CO ₂ 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
Total		249,507	25,584	185,698	0	460,789

Existing Market Shifted GHG EMISSIONS
2018
163.7066325
2466.299325
211.5437223
128.5618568
2,970.11

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 ^a	Honda Center ^b	The Forum ^a	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

^a Average reported attendance for event type, 2016-2018 Source: <https://www.pollstar.com/research>

^b Average reported attendance for event type, 2016-2017 Source: <https://www.pollstar.com/research>

	2018
EMFAC2014 CO ₂ Emission Factors (g/mi)	350.5573411
EMFAC2014 CO ₂ 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

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/MW hr)	508.33	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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
Total	5.9774	1.5441	1.2037	6.2400e-003	0.0000	0.0911	0.0911	0.0000	0.0911	0.0911	491.3554	5,369.3155	5,860.6709	29.2514	0.0288	6,600.5356

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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	4,248.4659	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
Total		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	1,097.5813

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
Total		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

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
Total		4,581.1496	0.0000	0.0000	4,581.1496

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
Total		4,248.4659	0.0000	0.0000	4,248.4659

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
Total	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

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
Total	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

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
Total		87.5376	0.7364	0.0174	111.1276

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
Total		50.3949	0.4344	0.0103	64.3130

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
Total		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

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
Total		487.1255	28.7883	0.0000	1,206.8329

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
Total	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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	499.69	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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
Total	5.9773	1.5441	1.2036	6.2400e-003	0.0000	0.0911	0.0911	0.0000	0.0911	0.0911	491.3554	5,296.3204	5,787.6758	29.2514	0.0288	6,527.5404

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		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	1,097.5813

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
Total		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

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
Total		4,503.2846	0.0000	0.0000	4,503.2846

IBEC Operations - Maximum Attendees - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e 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
Total		4,176.2554	0.0000	0.0000	4,176.2554

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
Total	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

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
Total	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

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
Total		86.1716	0.7364	0.0174	109.7616

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
Total		49.6103	0.4344	0.0103	63.5284

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
Total		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

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
Total		487.1255	28.7883	0.0000	1,206.8329

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
Total	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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	457.5	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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
Total	5.9773	1.5441	1.2035	6.2400e-003	0.0000	0.0911	0.0911	0.0000	0.0911	0.0911	491.3554	4,939.8778	5,431.2332	29.2514	0.0288	6,171.0977

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		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	1,097.5813

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
Total		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

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
Total		4,123.0617	0.0000	0.0000	4,123.0617

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
Total		3,823.6444	0.0000	0.0000	3,823.6444

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
Total	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

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
Total	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

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
Total		79.5012	0.7364	0.0174	103.0912

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
Total		45.7787	0.4344	0.0103	59.6968

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
Total		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

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
Total		487.1255	28.7883	0.0000	1,206.8329

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
Total	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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	305	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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
Total	5.9773	1.5441	1.2034	6.2400e-003	0.0000	0.0911	0.0911	0.0000	0.0911	0.0911	491.3554	3,651.4800	4,142.8354	29.2514	0.0288	4,882.7000

	ROG	NOx	CO	SO2	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

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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	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

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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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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		
Total	0.00	0.00	0.00		

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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	2,549.0962	2,549.0962	0.0000	0.0000	2,549.0962
Electricity Unmitigated							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

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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
Total		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	1,097.5813

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
Total		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

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
Total		2,748.7078	0.0000	0.0000	2,748.7078

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
Total		2,549.0963	0.0000	0.0000	2,549.0963

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
Total	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

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
Total	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

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
Total		55.3906	0.7364	0.0174	78.9806

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
Total		31.9291	0.4344	0.0103	45.8472

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
Total		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

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
Total		487.1255	28.7883	0.0000	1,206.8329

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
Total	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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	152.5	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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
Total	5.9773	1.5441	1.2034	6.2400e-003	0.0000	0.0911	0.0911	0.0000	0.0911	0.0911	491.3554	2,363.0823	2,854.4377	29.2514	0.0288	3,594.3022

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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

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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	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
Total		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	1,097.5813

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
Total		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

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
Total		1,374.3539	0.0000	0.0000	1,374.3539

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
Total		1,274.5481	0.0000	0.0000	1,274.5481

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
Total	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

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
Total	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

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
Total		31.2799	0.7364	0.0174	54.8699

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
Total		18.0795	0.4344	0.0103	31.9976

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
Total		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

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
Total		487.1255	28.7883	0.0000	1,206.8329

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
Total	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

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

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

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
Total	5.9773	1.5441	1.2034	6.2400e-003	0.0000	0.0911	0.0911	0.0000	0.0911	0.0911	491.3554	1,074.6846	1,566.0400	29.2514	0.0288	2,305.9045

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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

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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
Total		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	1,097.5813

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
Total		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

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

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
Total		7.1692	0.7364	0.0174	30.7593

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
Total		4.2299	0.4344	0.0103	18.1480

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
Total		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

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
Total		487.1255	28.7883	0.0000	1,206.8329

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
Total	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

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

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/MW hr)	476.2	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9035	16.8753	18.7788	0.1955	4.6200e-003	25.0423

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5228	13.5002	15.0231	0.1564	3.6900e-003	20.0338

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

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	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
Total		18.7788	0.1955	4.6200e-003	25.0422

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
Total		15.0230	0.1564	3.6900e-003	20.0338

8.0 Waste Detail

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

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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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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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

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

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9035	16.6095	18.5130	0.1955	4.6200e-003	24.7765

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5228	13.2876	14.8104	0.1564	3.6900e-003	19.8212

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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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	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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	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
Total		18.5130	0.1955	4.6200e-003	24.7765

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
Total		14.8104	0.1564	3.6900e-003	19.8212

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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

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

11.0 Vegetation

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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

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

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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

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9035	15.3129	17.2164	0.1955	4.6200e-003	23.4798

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5228	12.2503	13.7731	0.1564	3.6900e-003	18.7839

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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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	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
Total	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

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
Total		17.2164	0.1955	4.6200e-003	23.4798

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
Total		13.7731	0.1564	3.6900e-003	18.7838

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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

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

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

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

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9035	10.2085	12.1120	0.1955	4.6200e-003	18.3754

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5228	8.1668	9.6896	0.1564	3.6900e-003	14.7004

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	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
Total		12.1120	0.1955	4.6200e-003	18.3754

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
Total		9.6896	0.1564	3.6900e-003	14.7003

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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

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
----------------	--------

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	144.04	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9035	5.1044	7.0079	0.1955	4.6200e-003	13.2714

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5228	4.0835	5.6064	0.1564	3.6900e-003	10.6171

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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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	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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	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
Total		7.0079	0.1955	4.6200e-003	13.2714

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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
Total		5.6063	0.1564	3.6900e-003	10.6171

8.0 Waste Detail

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

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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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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

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

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

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

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%.

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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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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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9035	2.0000e-005	1.9035	0.1955	4.6200e-003	8.1670

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
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5228	2.0000e-005	1.5228	0.1564	3.6900e-003	6.5336

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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	0.0000	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
Total	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

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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	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
Total	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

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
Total		1.9035	0.1955	4.6200e-003	8.1670

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
Total		1.5228	0.1564	3.6900e-003	6.5336

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

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

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/MW hr)	476.2	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.0495	0.2215	0.1263	2.4000e-004	0.0000	7.2800e-003	7.2800e-003	0.0000	7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617

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
Total	0.0495	0.2215	0.1263	2.4000e-004	0.0000	7.2800e-003	7.2800e-003	0.0000	7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	577.752	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.1260	0.2154	0.6029	2.4000e-003	0.2035	2.7000e-003	0.2062	0.0545	2.5700e-003	0.0571	4.8691	326.4797	331.3488	0.3471	2.9600e-003	340.9085

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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
Total	0.1260	0.2154	0.6029	2.4000e-003	0.2035	2.7000e-003	0.2062	0.0545	2.5700e-003	0.0571	4.8691	326.4797	331.3488	0.3471	2.9600e-003	340.9085

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		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

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
Total		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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5.3 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
Total		79.3179	0.0000	0.0000	79.3179

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
Total		79.3179	0.0000	0.0000	79.3179

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
Total	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

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	5.3000e-004
Total	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

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
Total		19.4635	0.1150	2.7200e-003	23.1483

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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
Total		19.4635	0.1150	2.7200e-003	23.1483

8.0 Waste Detail

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
Total		3.7492	0.2216	0.0000	9.2886

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
Total		3.7492	0.2216	0.0000	9.2886

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

Equipment Type	Number
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11.0 Vegetation

Staples Center - Los Angeles-South Coast County, Annual

Staples Center
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	577.75	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	3.8418	0.8911	0.7601	5.3500e-003	0.0000	0.0678	0.0678	0.0000	0.0678	0.0678	365.8430	5,409.6635	5,775.5065	27.1107	0.3220	6,549.2421

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
Total	3.8418	0.8911	0.7601	5.3500e-003	0.0000	0.0678	0.0678	0.0000	0.0678	0.0678	365.8430	5,409.6635	5,775.5065	27.1107	0.3220	6,549.2421

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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 - 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
Total		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

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
Total		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

5.3 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
Total		3,016.7958	0.0000	0.0000	3,016.7958

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
Total		3,016.7958	0.0000	0.0000	3,016.7958

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
Total	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

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
Total	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

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
Total		1,548.340 1	12.8856	0.3043	1,961.150 1

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
Total		1,548.340 1	12.8856	0.3043	1,961.150 1

8.0 Waste Detail

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
Total		240.3860	14.2064	0.0000	595.5460

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
Total		240.3860	14.2064	0.0000	595.5460

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

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

Staples Center - Los Angeles-South Coast County, Annual

Staples Center
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2045
Utility Company	Los Angeles Department of Water & Power				
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

Staples Center - Los Angeles-South Coast County, Annual

Project Characteristics - Existing operational run to estimate NBA event backfill. LADWP CO₂e 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

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
Total	3.8418	0.8911	0.7601	5.3500e-003	0.0000	0.0678	0.0678	0.0000	0.0678	0.0678	365.8430	969.9847	1,335.8277	27.1107	0.3220	2,109.5633

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
Total	3.8418	0.8911	0.7601	5.3500e-003	0.0000	0.0678	0.0678	0.0000	0.0678	0.0678	365.8430	969.9847	1,335.8277	27.1107	0.3220	2,109.5633

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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 - 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
Total		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

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
Total		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

5.3 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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

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	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
Total		125.4571	12.8856	0.3043	538.2671

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
Total		125.4571	12.8856	0.3043	538.2671

8.0 Waste Detail

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
Total		240.3860	14.2064	0.0000	595.5460

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
Total		240.3860	14.2064	0.0000	595.5460

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

Equipment Type	Number
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11.0 Vegetation

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2045
Utility Company	Los Angeles Department of Water & Power				
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

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.

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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
Total	0.1064	0.1888	0.3289	1.9700e-003	0.2037	1.6500e-003	0.2053	0.0546	1.6000e-003	0.0562	4.8691	190.7754	195.6445	0.3434	2.9600e-003	205.1119

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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
Total	0.1064	0.1888	0.3289	1.9700e-003	0.2037	1.6500e-003	0.2053	0.0546	1.6000e-003	0.0562	4.8691	190.7754	195.6445	0.3434	2.9600e-003	205.1119

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		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

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
Total		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

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

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
Total		1.1198	0.1150	2.7200e-003	4.8046

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
Total		1.1198	0.1150	2.7200e-003	4.8046

8.0 Waste Detail

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
Total		3.7492	0.2216	0.0000	9.2886

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
Total		3.7492	0.2216	0.0000	9.2886

9.0 Operational Offroad

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

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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	742.82	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.0823	0.0121	0.0104	7.0000e-005	0.0000	9.2000e-004	9.2000e-004	0.0000	9.2000e-004	9.2000e-004	4.8691	138.7487	143.6178	0.3368	2.9600e-003	152.9203

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
Total	0.0823	0.0121	0.0104	7.0000e-005	0.0000	9.2000e-004	9.2000e-004	0.0000	9.2000e-004	9.2000e-004	4.8691	138.7487	143.6178	0.3368	2.9600e-003	152.9203

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		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

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
Total		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

5.3 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
Total		101.9797	0.0000	0.0000	101.9797

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
Total		101.9797	0.0000	0.0000	101.9797

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
Total	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

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
Total	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

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
Total		24.7045	0.1150	2.7200e-003	28.3892

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
Total		24.7045	0.1150	2.7200e-003	28.3892

8.0 Waste Detail

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
Total		3.7492	0.2216	0.0000	9.2886

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
Total		3.7492	0.2216	0.0000	9.2886

9.0 Operational Offroad

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

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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	549	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.5528	1.5939	3.9722	0.0105	0.7206	0.0182	0.7388	0.1932	0.0174	0.2107	16.8871	1,160.9124	1,177.7995	1.1726	7.7000e-003	1,209.4092

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
Total	0.5528	1.5939	3.9722	0.0105	0.7206	0.0182	0.7388	0.1932	0.0174	0.2107	16.8871	1,160.9124	1,177.7995	1.1726	7.7000e-003	1,209.4092

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		8.3100e-003	0.0757	0.0636	4.6000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5700e-003	1.5100e-003	82.8719

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
Total		8.3100e-003	0.0757	0.0636	4.6000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5700e-003	1.5100e-003	82.8719

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
Total		128.6428	0.0000	0.0000	128.6428

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
Total		128.6428	0.0000	0.0000	128.6428

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
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

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
Total		29.1541	0.2623	6.1900e-003	37.5575

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
Total		29.1541	0.2623	6.1900e-003	37.5575

8.0 Waste Detail**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 UseUnmitigated

	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
Total		14.3332	0.8471	0.0000	35.5099

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
Total		14.3332	0.8471	0.0000	35.5099

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

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	549	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	0.0372	0.0681	0.2484	6.0000e-004	0.0379	4.9200e-003	0.0429	0.0102	4.8800e-003	0.0151	1.0374	57.0101	58.0474	0.0441	2.9000e-004	59.2376

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
Total	0.0372	0.0681	0.2484	6.0000e-004	0.0379	4.9200e-003	0.0429	0.0102	4.8800e-003	0.0151	1.0374	57.0101	58.0474	0.0441	2.9000e-004	59.2376

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		3.6000e-004	3.0600e-003	1.3100e-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

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
Total		3.6000e-004	3.0600e-003	1.3100e-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

5.3 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
Total		4.5133	0.0000	0.0000	4.5133

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
Total		4.5133	0.0000	0.0000	4.5133

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
Total	0.0239	1.5200e-003	0.0670	6.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3400e-003	3.0000e-005	1.3507

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
Total	0.0239	1.5200e-003	0.0670	6.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3400e-003	3.0000e-005	1.3507

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
Total		1.3823	8.4900e-003	2.0000e-004	1.6544

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
Total		1.3823	8.4900e-003	2.0000e-004	1.6544

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
Total		0.5298	0.0313	0.0000	1.3126

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
Total		0.5298	0.0313	0.0000	1.3126

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

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

The Forum Existing Emissions
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

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	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	549	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	1.4501	0.3545	0.3022	2.1300e-003	0.0000	0.0270	0.0270	0.0000	0.0270	0.0270	137.8886	1,623.5764	1,761.4650	10.2186	0.1218	2,053.2115

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
Total	1.4501	0.3545	0.3022	2.1300e-003	0.0000	0.0270	0.0270	0.0000	0.0270	0.0270	137.8886	1,623.5764	1,761.4650	10.2186	0.1218	2,053.2115

	ROG	NOx	CO	SO2	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	

The Forum Existing Emissions - 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

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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

The Forum Existing Emissions - Los Angeles-South Coast 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	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
Total		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

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
Total		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

5.3 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
Total		728.0662	0.0000	0.0000	728.0662

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
Total		728.0662	0.0000	0.0000	728.0662

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
Total	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

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
Total	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

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
Total		556.8921	4.8567	0.1147	712.4828

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
Total		556.8921	4.8567	0.1147	712.4828

8.0 Waste Detail

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
Total		90.6030	5.3545	0.0000	224.4651

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
Total		90.6030	5.3545	0.0000	224.4651

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

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
----------------	--------

11.0 Vegetation

Honda Center - Orange County, Annual

Honda Center
Orange County, Annual

1.0 Project Characteristics

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2018
Utility Company	Anaheim Public Utilities				
CO2 Intensity (lb/MW hr)	1112.39	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	2.7212	0.6396	0.5456	3.8400e-003	0.0000	0.0486	0.0486	0.0000	0.0486	0.0486	259.0392	12,298.0157	12,557.0549	19.1962	0.2282	13,104.9626

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
Total	2.7212	0.6396	0.5456	3.8400e-003	0.0000	0.0486	0.0486	0.0000	0.0486	0.0486	259.0392	12,298.0157	12,557.0549	19.1962	0.2282	13,104.9626

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		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

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
Total		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

5.3 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
Total		9,662.0419	0.0000	0.0000	9,662.0419

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
Total		9,662.0419	0.0000	0.0000	9,662.0419

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
Total	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

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
Total	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

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
Total		2,028.631 4	9.1238	0.2154	2,320.926 1

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
Total		2,028.631 4	9.1238	0.2154	2,320.926 1

8.0 Waste Detail

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
Total		170.2079	10.0590	0.0000	421.6829

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
Total		170.2079	10.0590	0.0000	421.6829

9.0 Operational Offroad

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

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

Staples Center - Los Angeles-South Coast County, Annual

Staples Center
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

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

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	742.82	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	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

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
Total	3.8418	0.8911	0.7603	5.3500e-003	0.0000	0.0678	0.0678	0.0000	0.0678	0.0678	365.8430	6,678.1322	7,043.9752	27.1107	0.3220	7,817.7109

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
Total	3.8418	0.8911	0.7603	5.3500e-003	0.0000	0.0678	0.0678	0.0000	0.0678	0.0678	365.8430	6,678.1322	7,043.9752	27.1107	0.3220	7,817.7109

	ROG	NOx	CO	SO2	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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 - 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
Total		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

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
Total		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

5.3 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
Total		3,878.7300	0.0000	0.0000	3,878.7300

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
Total		3,878.7300	0.0000	0.0000	3,878.7300

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
Total	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

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
Total	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

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
Total		1,954.874 6	12.8856	0.3043	2,367.684 6

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
Total		1,954.874 6	12.8856	0.3043	2,367.684 6

8.0 Waste Detail

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
Total		240.3860	14.2064	0.0000	595.5460

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
Total		240.3860	14.2064	0.0000	595.5460

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

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

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

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/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	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
Total	0.1843	1.8810	1.2645	2.5800e-003	0.0554	0.0877	0.1430	8.3800e-003	0.0813	0.0897	0.0000	225.9160	225.9160	0.0665	0.0000	227.5772

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
Total	0.0224	0.5901	0.1771	1.7600e-003	0.0480	1.8500e-003	0.0499	0.0131	1.7600e-003	0.0149	0.0000	171.8712	171.8712	0.0115	0.0000	172.1587

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
Total	0.0310	0.1342	1.4291	2.5800e-003	0.0216	4.1300e-003	0.0257	3.2700e-003	4.1300e-003	7.4000e-003	0.0000	225.9157	225.9157	0.0665	0.0000	227.5769

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
Total	0.0224	0.5901	0.1771	1.7600e-003	0.0480	1.8500e-003	0.0499	0.0131	1.7600e-003	0.0149	0.0000	171.8712	171.8712	0.0115	0.0000	172.1587

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
Total	0.5375	5.5987	2.9246	5.2600e-003	2.4977	0.2827	2.7803	1.3729	0.2600	1.6330	0.0000	462.2488	462.2488	0.1495	0.0000	465.9863

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
Total	0.0137	0.0122	0.1199	3.5000e-004	0.0348	2.9000e-004	0.0350	9.2300e-003	2.6000e-004	9.5000e-003	0.0000	31.6841	31.6841	9.5000e-004	0.0000	31.7078

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
Total	0.0644	0.2789	2.8851	5.2600e-003	0.9741	8.5800e-003	0.9827	0.5354	8.5800e-003	0.5440	0.0000	462.2482	462.2482	0.1495	0.0000	465.9858

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
Total	0.0137	0.0122	0.1199	3.5000e-004	0.0348	2.9000e-004	0.0350	9.2300e-003	2.6000e-004	9.5000e-003	0.0000	31.6841	31.6841	9.5000e-004	0.0000	31.7078

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
Total	0.1387	1.4474	0.8618	1.6600e-003	0.7904	0.0706	0.8610	0.4345	0.0649	0.4994	0.0000	146.2973	146.2973	0.0473	0.0000	147.4802

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
Total	4.0400e-003	3.4900e-003	0.0350	1.1000e-004	0.0111	9.0000e-005	0.0112	2.9400e-003	8.0000e-005	3.0200e-003	0.0000	9.6774	9.6774	2.7000e-004	0.0000	9.6842

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
Total	0.0204	0.0883	0.9130	1.6600e-003	0.3083	2.7200e-003	0.3110	0.1694	2.7200e-003	0.1722	0.0000	146.2972	146.2972	0.0473	0.0000	147.4801

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
Total	4.0400e-003	3.4900e-003	0.0350	1.1000e-004	0.0111	9.0000e-005	0.0112	2.9400e-003	8.0000e-005	3.0200e-003	0.0000	9.6774	9.6774	2.7000e-004	0.0000	9.6842

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
Total	0.2294	2.5193	1.5605	3.5100e-003	0.6655	0.1074	0.7728	0.1821	0.0988	0.2808	0.0000	308.5991	308.5991	0.0998	0.0000	311.0943

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
Total	0.0620	1.9387	0.4783	5.4900e-003	0.3678	5.8500e-003	0.3736	0.0939	5.6000e-003	0.0995	0.0000	540.0501	540.0501	0.0372	0.0000	540.9800

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
Total	0.0432	0.1871	1.7919	3.5100e-003	0.2595	5.7600e-003	0.2653	0.0710	5.7600e-003	0.0768	0.0000	308.5988	308.5988	0.0998	0.0000	311.0939

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
Total	0.0620	1.9387	0.4783	5.4900e-003	0.3678	5.8500e-003	0.3736	0.0939	5.6000e-003	0.0995	0.0000	540.0501	540.0501	0.0372	0.0000	540.9800

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
Total	0.5224	5.5368	3.9007	9.3500e-003	1.0765	0.2329	1.3094	0.4080	0.2143	0.6223	0.0000	821.3300	821.3300	0.2656	0.0000	827.9709

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
Total	0.1567	4.7855	1.2531	0.0144	0.4305	0.0135	0.4440	0.1154	0.0130	0.1284	0.0000	1,418.8016	1,418.8016	0.0973	0.0000	1,421.2352

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
Total	0.1148	0.4976	4.7657	9.3500e-003	0.4198	0.0153	0.4351	0.1591	0.0153	0.1744	0.0000	821.3290	821.3290	0.2656	0.0000	827.9699

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
Total	0.1567	4.7855	1.2531	0.0144	0.4305	0.0135	0.4440	0.1154	0.0130	0.1284	0.0000	1,418.8016	1,418.8016	0.0973	0.0000	1,421.2352

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
Total	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

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
Total	0.5022	3.2737	4.3350	0.0188	1.3260	0.0147	1.3407	0.3562	0.0138	0.3700	0.0000	1,751.3542	1,751.3542	0.0742	0.0000	1,753.2082

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
Total	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

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
Total	0.5022	3.2737	4.3350	0.0188	1.3260	0.0147	1.3407	0.3562	0.0138	0.3700	0.0000	1,751.3542	1,751.3542	0.0742	0.0000	1,753.2082

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
Total	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

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
Total	0.4407	2.4231	3.8598	0.0176	1.2902	0.0110	1.3012	0.3466	0.0102	0.3569	0.0000	1,643.9764	1,643.9764	0.0644	0.0000	1,645.5868

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
Total	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

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
Total	0.4407	2.4231	3.8598	0.0176	1.2902	0.0110	1.3012	0.3466	0.0102	0.3569	0.0000	1,643.9764	1,643.9764	0.0644	0.0000	1,645.5868

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
Total	0.2828	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

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
Total	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

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
Total	0.2788	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

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
Total	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

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
Total	4.4075	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

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
Total	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

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
Total	4.3486	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

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
Total	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

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
Total	1.7925	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

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
Total	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

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
Total	1.7701	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

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
Total	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

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

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/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	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
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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
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
Total	0.1229	5.1000e-004	0.0565	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172

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
Total	0.1229	5.1000e-004	0.0565	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	2.0000e-004	2.0000e-004	0.0000	0.1100	0.1100	2.9000e-004	0.0000	0.1172

	ROG	NOx	CO	SO2	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
Total	0.1021	1.0631	0.5553	1.0000e-003	0.4753	0.0537	0.5289	0.2608	0.0494	0.3102	0.0000	87.7688	87.7688	0.0284	0.0000	88.4784

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
Total	0.0106	0.3111	0.0825	9.0000e-004	0.0222	9.5000e-004	0.0232	6.0800e-003	9.1000e-004	6.9900e-003	0.0000	88.0854	88.0854	6.0100e-003	0.0000	88.2355

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
Total	0.0122	0.0530	0.5478	1.0000e-003	0.1854	1.6300e-003	0.1870	0.1017	1.6300e-003	0.1034	0.0000	87.7687	87.7687	0.0284	0.0000	88.4783

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
Total	0.0106	0.3111	0.0825	9.0000e-004	0.0222	9.5000e-004	0.0232	6.0800e-003	9.1000e-004	6.9900e-003	0.0000	88.0854	88.0854	6.0100e-003	0.0000	88.2355

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
Total	0.1223	1.3203	0.8464	1.5800e-003	0.3544	0.0619	0.4163	0.1810	0.0570	0.2379	0.0000	139.0616	139.0616	0.0450	0.0000	140.1860

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
Total	0.1582	5.1355	1.2144	0.0144	0.3238	0.0154	0.3392	0.0889	0.0147	0.1036	0.0000	1,418.2789	1,418.2789	0.0983	0.0000	1,420.7354

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
Total	0.0194	0.0840	0.9476	1.5800e-003	0.1382	2.5800e-003	0.1408	0.0706	2.5800e-003	0.0732	0.0000	139.0614	139.0614	0.0450	0.0000	140.1858

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
Total	0.1582	5.1355	1.2144	0.0144	0.3238	0.0154	0.3392	0.0889	0.0147	0.1036	0.0000	1,418.2789	1,418.2789	0.0983	0.0000	1,420.7354

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
Total	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

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
Total	0.0702	0.5946	0.6116	2.7800e-003	0.2329	2.3200e-003	0.2353	0.0613	2.1700e-003	0.0635	0.0000	261.7724	261.7724	0.0124	0.0000	262.0813

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
Total	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

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
Total	0.0702	0.5946	0.6116	2.7800e-003	0.2329	2.3200e-003	0.2353	0.0613	2.1700e-003	0.0635	0.0000	261.7724	261.7724	0.0124	0.0000	262.0813

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
Total	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

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
Total	0.5286	4.5042	4.5581	0.0219	1.3997	0.0171	1.4168	0.3770	0.0160	0.3930	0.0000	2,056.1784	2,056.1784	0.0942	0.0000	2,058.5329

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
Total	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

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
Total	0.5286	4.5042	4.5581	0.0219	1.3997	0.0171	1.4168	0.3770	0.0160	0.3930	0.0000	2,056.1784	2,056.1784	0.0942	0.0000	2,058.5329

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
Total	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

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
Total	0.4681	3.3774	4.1545	0.0210	1.3954	0.0122	1.4077	0.3758	0.0114	0.3872	0.0000	1,978.6845	1,978.6845	0.0839	0.0000	1,980.7829

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
Total	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

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
Total	0.4681	3.3774	4.1545	0.0210	1.3954	0.0122	1.4077	0.3758	0.0114	0.3872	0.0000	1,978.6845	1,978.6845	0.0839	0.0000	1,980.7829

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
Total	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

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
Total	0.0487	0.3641	0.4264	2.2400e-003	0.2116	1.3200e-003	0.2130	0.0556	1.2300e-003	0.0568	0.0000	212.0971	212.0971	8.8500e-003	0.0000	212.3185

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
Total	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

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
Total	0.0487	0.3641	0.4264	2.2400e-003	0.2116	1.3200e-003	0.2130	0.0556	1.2300e-003	0.0568	0.0000	212.0971	212.0971	8.8500e-003	0.0000	212.3185

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
Total	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

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
Total	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

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
Total	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

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
Total	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

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
Total	0.2213	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

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
Total	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

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
Total	0.2105	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

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
Total	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

4.0 Operational Detail - Mobile

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	0.1230	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

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
Total	0.1230	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

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

IBEC Construction - Run 2 (Tier 4 Final Equipment) - 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
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Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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

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

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/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	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
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

	ROG	NOx	CO	SO2	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
Total	0.0175	0.1596	0.1665	2.6000e-004	1.1900e-003	8.9600e-003	0.0102	1.8000e-004	8.5500e-003	8.7300e-003	0.0000	22.9006	22.9006	4.2700e-003	0.0000	23.0073

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
Total	1.0000e-003	2.2600e-003	8.6800e-003	2.0000e-005	2.5000e-003	2.0000e-005	2.5300e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.5949	2.5949	9.0000e-005	0.0000	2.5972

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
Total	2.9200e-003	0.0126	0.1727	2.6000e-004	1.1900e-003	3.9000e-004	1.5800e-003	1.8000e-004	3.9000e-004	5.7000e-004	0.0000	22.9005	22.9005	4.2700e-003	0.0000	23.0072

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
Total	1.0000e-003	2.2600e-003	8.6800e-003	2.0000e-005	2.5000e-003	2.0000e-005	2.5300e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.5949	2.5949	9.0000e-005	0.0000	2.5972

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total	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

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
Total	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

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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
