

Appendix E Aesthetics

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Glare Analysis Report for the Sloughouse Solar Farm Project

Prepared for:

Sloughouse Solar, LLC
1166 Avenue of the Americas, 9th Fl
New York, NY 10036

Prepared by:

DUDEK
38 North Raymond Avenue
Pasadena, California 91101

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1 PROJECT DESCRIPTION

1.1 Report Purpose and Scope

The purpose of this Glare Analysis Report is to assess the potential glare impacts associated with implementation of the proposed Sloughhouse Solar Farm Project (project). The study was conducted per the Federal Aviation Administration's recommended procedures described in the *Technical Guidance for Evaluating Selected Solar Technologies on Airports* (FAA 2018) and the geometric glare modeling software utilized adheres to interim Federal Aviation Administration policy regarding solar energy system projects on federally obligated airports (78 FR 63276–63279).

This Glare Analysis Report includes an introduction to the photovoltaic (PV) technologies proposed to be implemented on the Project and their potential to result in glare. Section 1, Project Description, provides a description of the project, the project location, and describes the environmental setting for the project. Section 2, Glare Impacts, describes the methodology used to perform the glare analysis and a summary of the results of the analysis. Section 3, References Cited, includes a list of the references cited. Section 4, Document Preparers, includes a list of those who prepared this Glare Analysis Report. The complete detailed glare report generated by the modeling software is included in Appendix A, Modeling Results.

1.2 Regional and Local Setting

1.2.1 Regional Location

The project is located at the western edge of the Central Valley, north of the Sacramento–San Joaquin River Delta and about 14 miles southeast of the City of Sacramento. The project site lies in the Sloughhouse U.S. Geological Survey (USGS) 7.5-minute quadrangle, Sections 2, 3, 10, 11, 14, and 15, Township 6 North, Range 7 East, Mt. Diablo Meridian.

Figure 1, Project Location, shows the locations of the solar arrays and surrounding municipalities, including the City of Rancho Cordova to the north, the community of Rancho Murieta to the east, and the community of Wilton to the southwest within the county of Sacramento. The solar generation sites are located south of State Route (SR) 16 (Jackson Road) at Dillard Road in the community of Sloughhouse.

The nearest airport is the privately-owned Rancho Murieta Airport, approximately 4 miles to the east of the Project in the community of Rancho Murieta. The Sacramento Mather Airport lies approximately 7.5 miles to the northwest of the Project site.

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1.2.2 Project Setting

The project property is situated on 741 acres of land, consisting of rolling hills on the east and relatively flat agricultural land on the west side of the property. The project site generally slopes to the northwest to the bank of the Cosumnes river. Native grasslands dominate the non-agricultural portions of the site along with scattered seasonal wetlands and vernal pools. The project area is primarily accessible by exiting SR 16 at Dillard Road.

The project site is located in an area of low population density and scattered agricultural land. However, the site is approximately 5 miles southeast of the Sacramento metropolitan area, which has a population of approximately 2,500,000 people. Land usage in the project area consist of a mix of agricultural land, scattered single-family residences.

1.2.3 Regulations and Regulatory Requirements

1.2.3.1 *Federal*

Federal Aviation Administration

In order to understand and model glare in accordance with FAA standards, Sandia National Laboratories developed the Solar Glare Hazard Analysis Tool (SGHAT). With SGHAT, standardized safety metrics define the anticipated glare intensity that would cause unwanted visual impacts to Air Traffic Control towers and airplane pilots. Glare intensity is described according to potential for after-image and is illustrated on the FAA's Solar Glare Ocular Hazard Plot. Low potential for after-image is referred to as "green" glare and potential for after-image is referred to as "yellow" glare. "Red" glare is representative of glare conditions with potential for permanent eye damage. While use of SGHAT or the publicly available and licensed SGHAT application ForgeSolar is required to demonstrate compliance with the standards for measuring ocular impact stated above for any proposed solar energy system located on a federally-obligated airport, the FAA has not established a formal policy for ocular impact assessments for non-airport solar facilities. Still, SGHAT and ForegeSolar are industry standard tools for assessing potential glare impacts associated with new solar facilities and buildings.

In ocular impact assessments for proposed solar facilities on a federally-obligated airport, FAA approval is provided if the project proponent can support consistency with the following standards:

- No potential for glint or glare in the existing or planned Airport Traffic Control Tower (ATCT) cab, and

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- 2. No potential for glare or “low potential for after-image” along the final approach path for any existing landing threshold or future landing thresholds (including any planned interim phases of the landing thresholds) as shown on the current FAA-approved Airport Layout Plan (ALP).

SGHAT and ForgeSolar are also able to evaluate the potential of a particular PV array to produce glare intensity, predicting when and where glare would occur from a proposed PV array at discrete observation points (i.e. from the Air Traffic Control Tower, runway approach, or fixed receptor location). In instances where glare may be a concern, the tools can prescribe minor adjustments to the tilt, direction, and location of the panels to alleviate issues.

While the project is not located on a federally-obligated airport and is not required to do so by Sacramento County, Dudek staff utilized the industry standard ForgeSolar 3D geometric glare analysis software tool to disclose potential glare impacts associated with operation of the project.

1.2.3.2 State

California Environmental Quality Act (CEQA)

CEQA requires an analysis of aesthetic impacts when an agency or individual proposes an activity which may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. In Appendix G, Environmental Checklist Form, the 2019 CEQA Statute and Guidelines contains the follow impact threshold related to glare:

- Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Other than the CEQA Guidelines, there are no state regulations pertaining to potential glare effects associated with the operation of solar facilities.

1.2.3.3 Local

Upon review of the Sacramento County Code, there is no law or regulation governing glint/glare related to commercial solar energy projects.

1.3 Proposed Project Description

Project Characteristics

Sloughhouse Solar, LLC is proposing construction of the Sloughhouse Solar project (project), an approximately 50 megawatt alternating current (MWac) solar photovoltaic (PV) energy-

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generating facility adjacent to an existing solar energy facility located in the Consumnes community of Sacramento County. The project is being developed to sell its electricity and all renewable and environmental attributes to an electric utility purchaser under long-term contracts to help meet California Renewable Portfolio Standard (RPS) goals.

The proposed project includes the installation of PV modules covering approximately 400 acres, a substation/switchyard, temporary construction lay down, construction trailers, and parking areas and may include auxiliary facilities such as raw water/fire water storage, treated water storage, storm water retention basins, water filtration buildings and equipment, and equipment control buildings, septic system(s) and parking. Ground disturbing project activities will consist primarily of grading, as the PV panels will be supported on driven piles.

This Glare Analysis Report considers the impacts of the PV solar arrays and their potential to generate glare. The project includes other components that have not potential for glare and are therefore not analyzed in this report. These components include, but may not be limited to:

- Inverters and pad-mounted transformers at the center of each panel array which take the DC power output from the PV modules and convert it to AC power. The pad-mounted transformer steps the voltage up to a medium voltage level. The medium voltage outputs from each of the pad-mounted transformers are collected together in combining switchgear located at discrete locations on the Project site. The medium voltage output from the combining switchgear will be connected to the Project substation where it will then be stepped up to 69 kV for export to the grid.
- An onsite substation will step-up the voltage from the collection level voltage to 69 kV. Breakers, buswork, protective relaying, Supervisory Control and Data Acquisition (SCADA), and associated substation equipment will be constructed on the Project site. The communication system may include above or below ground fiber optic cable or microwave tower. The Project will be interconnected to the regional transmission system from the onsite substation/switchyard via the gen-tie facilities described in this project description.
- A generation tie (gen-tie) line to interconnect to the 69 kV power line located within the east side of the Dillard Road right of way.

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2 GLARE IMPACTS

2.1 General Concepts of Solar Technologies and Glare

The proposed project would involve installation of photovoltaic panels to convert the sun's light into electrical energy. To increase the efficiency of this conversion process, designers of solar systems strive to maximize the amount of solar energy that can be absorbed by solar cells. This work towards increasing efficiency has the added benefit of reducing the amount of light that reflects off of the surface of the solar panels. Reflected light can cause glint (a quick reflection) and glare (reflection that lasts for a longer duration), which can create hazards for pilots, air-traffic control personnel, motorists, and other potential receptors. For the purpose of this Glare Analysis Report, any light reflected off of the solar panels is referred to as 'glare.'

There are several key design considerations that can reduce glare from solar panels. One of the main factors of reflectance is the position of the PV modules relative to the sun. A panel that has been designed to absorb 90% of the sunlight that directly meets the face of the panels (perpendicular to the sun's rays) may have that absorption significantly reduced if the panel is not directly facing the sun (ForgeSolar 2019). Because the sun tracks across the sky over the course of a day, fixed-mount stationary panels can only maximize its efficiency for a few minutes out of the day when the sunlight is directly perpendicular to the face of the panel. To maximize the amount of solar energy generated from the solar array, some PV systems employ tracking mechanisms that would adjust to track the sun's trajectory as it crosses the sky. Figure 3, Comparison of Photovoltaic Tracking Systems, provides an illustrative example of fixed-mount panel system, single-axis tracking system, and dual-axis tracking system.

In addition to panel orientation, the materials used in the panel construction play an important role in reducing glare and maximizing efficiency. Different glass textures can be used to reflect light beams into the solar array and anti-reflective coatings can be added to the glass to further reduce reflectivity at high incidence angles (the angle at which the light hits the solar array).

The proposed project is anticipated to employ a single-axis tracking system, as illustrated by the middle panel system in Figure 3. The axis of rotation would be aligned north-south with a maximum tracking angle of 60°. The surface of the panels would be constructed out of smooth glass and would include an anti-reflective coating, as further described below.

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Glare can result in visual hazards and temporary loss of vision. The hazard level of glare depends on the ocular impact to the observer. Generally, an ocular impact is calculated as a function of the incidence angle and the intensity of the light. For the purpose of this Glare Analysis Report, an ocular impact is classified in one of three categories as follows:

- Green: Low potential for the glare to cause an after-image (also known as flash blindness)
- Yellow: Potential to cause a temporary after-image
- Red: Potential to cause retinal burn and permanent eye damage

2.2 Methodology

In order to determine where and when glare might occur as a result of the proposed project, Dudek staff utilized a multi-step process that included a combination of spatial analysis, 3D geometric modeling, and aerial imagery interpolation. Because of the project's vicinity to the Rancho Murieta Airport (located approximately 4 miles to the east of the project), the existence of SR 16 to the north, and multiple public roads to the east, a 5-mile-radius study area was determined to be necessary for this analysis, as shown on Figure 1. Sacramento Mather Airport falls outside the 5-mile study area but was included in the analysis due to the high level of flight traffic to the airport. The location of the Sacramento Mather Airport is also identified on Figure 1.

Dudek performed a visibility analysis on the surrounding terrain within the study area to determine where the project is most visible. Based on the visibility analysis, Dudek determined the location of potential receptors within the study area. All runway approach paths and air traffic control towers associated with both Sacramento Mather Airport and Rancho Murieta Airport were included in this analysis regardless of visibility or distance. A geometric glare analysis was then conducted for the identified potential receptors to determine where and when glare might be encountered. Upon completion of the geometric analysis, Dudek reviewed the results for potential glare hazards and provided recommendations.

2.2.1 Visibility Analysis

The first step in pinpointing potential receptor locations was to determine where the project is most visible on the surrounding landscape. This is an important step because the geometric glare analysis software described in Section 2.2.3 does not take into consideration the terrain between the observer and the reflective surfaces associated with the project. Without this step, there would be potential for a false positive glare impact on an observer that, in reality, could not possibly see the project due to intervening terrain.

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Figure 4, Visibility Analysis and Receptor Locations, shows the results of the visibility analysis performed by Dudek staff. Terrain within the study area is colored based on the percentage of the project visible from that location. Locations on the map colored red, are able to view most of the proposed solar arrays. Areas in blue have their view of the arrays mostly obscured by terrain. Areas shown in grey are predicted to have no view of the proposed solar arrays. This visibility analysis only utilized existing terrain models, and did not take into consideration existing and proposed structures or vegetation.

2.2.2 Potential Receptor Identification

Using the visibility analysis results in conjunction with aerial imagery, road centerline data, land use data, and flight path information, Dudek staff selected potential receptors based on their distance from the project and the percentage of the project visible from the receptor's location. To keep the geometric processing time within reasonable limits, only receptors that were either close to the project or able to see most of the project from their location were selected for the analysis. Figure 4, Visibility Analysis and Receptor Locations, shows the locations of analyzed receptors as well as the modeled array locations. Figure 5, Airport Receptor Locations, shows the locations of the flight path receptors and air traffic control towers (ATCT) associated with Sacramento Mather Airport and Rancho Murieta Airport. Modeled array extents were subdivided into smaller portions to increase the accuracy of the modeling software. The numbers assigned to each array on Figure 4 correspond the array identifiers in Appendix A. Each modeled receptor type shown on the Figure is described below and receptor's precise modeling parameters can be found in Appendix A:

- Air Traffic Control Tower (ATCT) Receptor – One control tower was considered for this analysis; the currently operating tower located on the southeast side of Sacramento Mather Airport, adjacent to runway 22L. The control tower height was estimated based on available elevation data. Rancho Murieta Airport does not have an operating ATCT. See Appendix A for the precise heights used in the modeling.
- Dwelling Observation Point – Analysis included existing residential dwellings that were located adjacent to the project or within direct line of sight of most of the solar array. Because modeling every dwelling would not be feasible, Dudek staff selected representative dwellings from the neighborhoods surrounding the site.
- Airport Flight Path Receptors – Six flight path receptors were selected to simulate an aircraft following a straight-line approach toward each runway at both airports. Flight path routes utilize glide slope and elevation parameters, as well as cockpit visibility angles. Modeled flight approaches extended out two miles from each runway threshold.

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- Road Receptor – Seventeen Road receptors were selected based on visibility, distance to the project site, and level of traffic expected on the roadways. To keep the number of receptor routes below the allowed limit by the geometric modeling software, Dudek staff selected routes that would be representative of each road type and road direction of travel within view of the project. Because of the project’s location in the northern hemisphere, roads to the east, west, and north of the project were preferred in the selection process because of their higher likelihood of receiving glare.

Table 1 shows the number of receptor points/routes modeled categorized by receptor type.

**Table 1
Receptor Counts**

Receptor Type	Count
Airport Flight Path Receptors	6
Air Traffic Control Tower (ATCT) Receptors	1
Observation Point Receptors	21
Observation Routes (Roads and Highways)	17

2.2.3 Geometric Glare Analysis

Dudek staff utilized an industry standard 3D geometric glare analysis software tool developed by Sandia National Laboratories and licensed by ForgeSolar. By inputting the solar panel locations and characteristics, as well as the locations and elevations of the receptors, the software was able to simulate the sun’s progression across the sky over the course of a year and model the potential glare caused by the proposed solar arrays. If glare is detected, the software is able to quantify the level of ocular impact hazard (green, yellow, or red) as well as pinpoint the exact time of year the glare would occur. This analysis was automatically performed for every minute of the calendar year, for each proposed solar array, and for each potential receptor defined in the model.

In order to ensure model accuracy, Dudek staff consulted the Sloughhouse Solar, LLC to get the precise characteristics of the proposed solar array system, as shown on Figure 2. Data gathered includes the physical location, orientation, build material (including the presence of anti-reflective coatings), tilt angle, and tracking technology. All of these characteristics were entered into the modeling software as described in Table 2.

**Table 2
Solar Array Model Inputs**

Solar Array Characteristics	Proposed Project Configuration
Tracking method	Single-axis

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Solar Array Characteristics	Proposed Project Configuration
Module surface material	Smooth glass with anti-reflective coating
Orientation of tracking axis	North-south
Maximum tracking angle	60°
Resting angle (when sun leaves maximum tracking angle)	60°

As described in Table 2, the proposed project is anticipated to utilize a single-axis tracking system. This tracking system would be oriented running north-south with the panel faces rotating from east to west. The system would be able to track the sun's progression across the sky, within the system's 120° range of motion (60° to the east and 60° to the west). When the sun is not within the 120° range of motion, the panels would rest at their maximum angle (60° east in the morning, 60° west in the late afternoon).

2.2.4 Analysis Results

Dudek has determined that, according to the results of the geometric analysis, the proposed project would not result in hazardous glare in the green, yellow, or red ocular impact categories.

**Table 3
Glare Results**

Array Model ID	Proposed Project (Single-Axis Tracking)	
	"Green" Glare (Minutes per Year)	"Yellow" Glare (Minutes per Year)
Array 01	0	0
Array 02	0	0
Array 03	0	0
Array 04	0	0
Array 05	0	0
Array 06	0	0
Array 07	0	0
Array 08	0	0
Array 09	0	0
Array 10	0	0
Array 11	0	0
Array 12	0	0
Array 13	0	0
Array 14	0	0
Array 15	0	0

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Array Model ID	Proposed Project (Single-Axis Tracking)	
	<i>"Green" Glare (Minutes per Year)</i>	<i>"Yellow" Glare (Minutes per Year)</i>
Array 16	0	0

2.2.5 Conclusions

As shown above, the proposed project would not result in any significant glare impacts when analyzed in accordance with preferred FAA methodology for assessing impacts to aviation facilities and activities.

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3 REFERENCES CITED

78 FR 63276–63279. Notice of interim policy: “Interim Policy, FAA Review of Solar Energy System Projects on Federally Obligated Airports.” October 23, 2013.

FAA (Federal Aviation Administration). 2013. *Technical Guidance for Evaluating Selected Solar Technologies on Airports*. Version 1.1. Washington, DC: FAA, Office of Airports, Office of Airport Planning and Programming. April 2018.

ForgeSolar (ForgeSolar: PV Planning & Glare Analysis). 2019. “ForgeSolar Help.” Website. <https://www.forgesolar.com/help/>.

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4 DOCUMENT PREPARERS

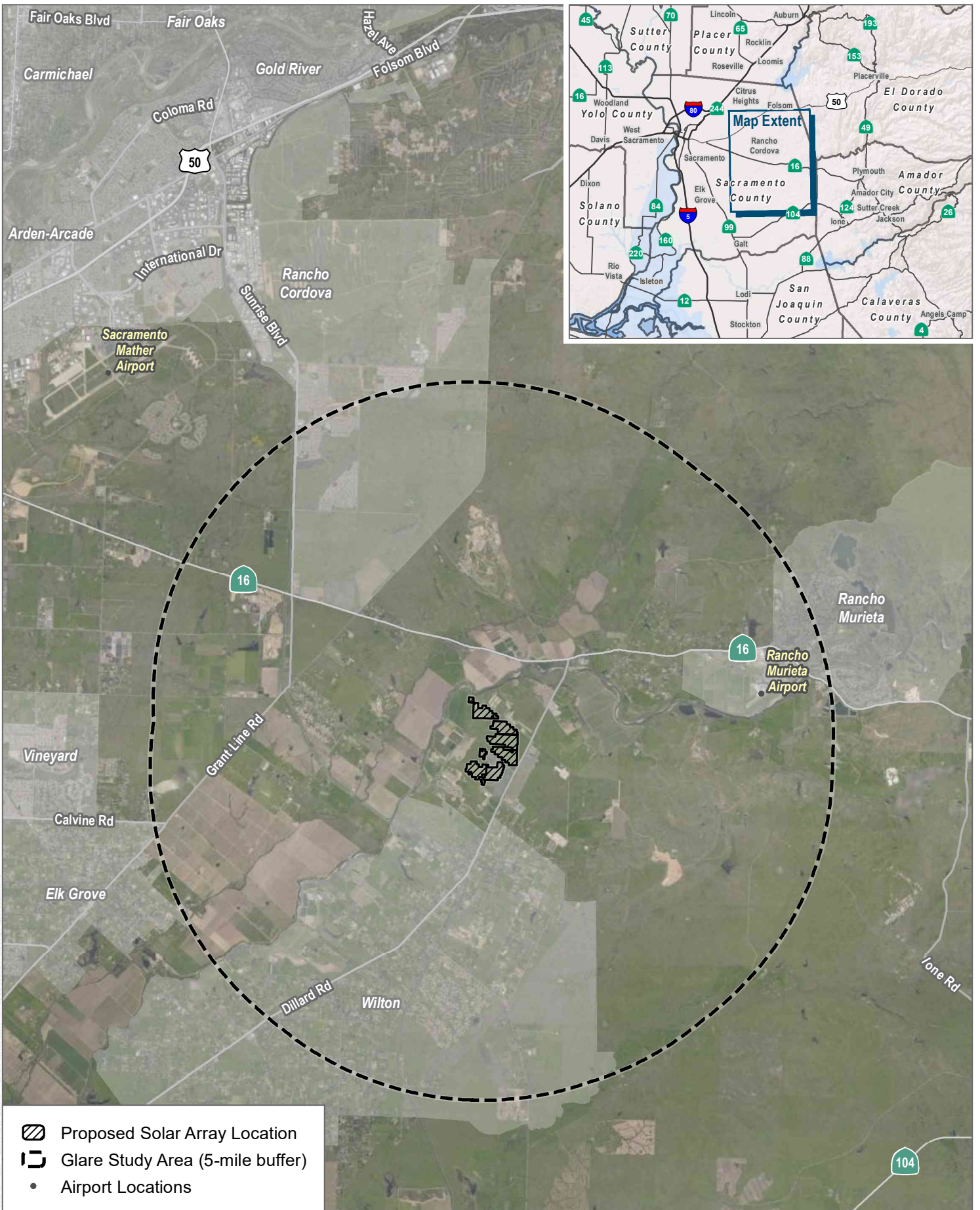
This Glare Analysis Report was prepared by Christopher Starbird and Joshua Saunders. Formatting was provided by David Mueller.

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SOURCE: Esri, Digital Globe 2019, Open Street Map 2019



FIGURE 1
Project Location

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 Project Site Boundary
 PV Solar Array Features

SOURCE: Esri, Digital Globe 2019, Open Street Map 2019





FIGURE 2
Project Design

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POTENTIAL FOR GLARE*

Most



System Used in Proposed Project

Least

**Fixed Mount Panel
(no tracking)**

**Single-Axis Tracking
Panel**

**Dual-Axis Tracking
Panel**

EFFICIENCY*

Most

Least

DUDEK

* Efficiency and glare relationships represented in this graphic have been exaggerated and are for illustrative purposes only.

SOURCE: DUDEK 2020



FIGURE 3

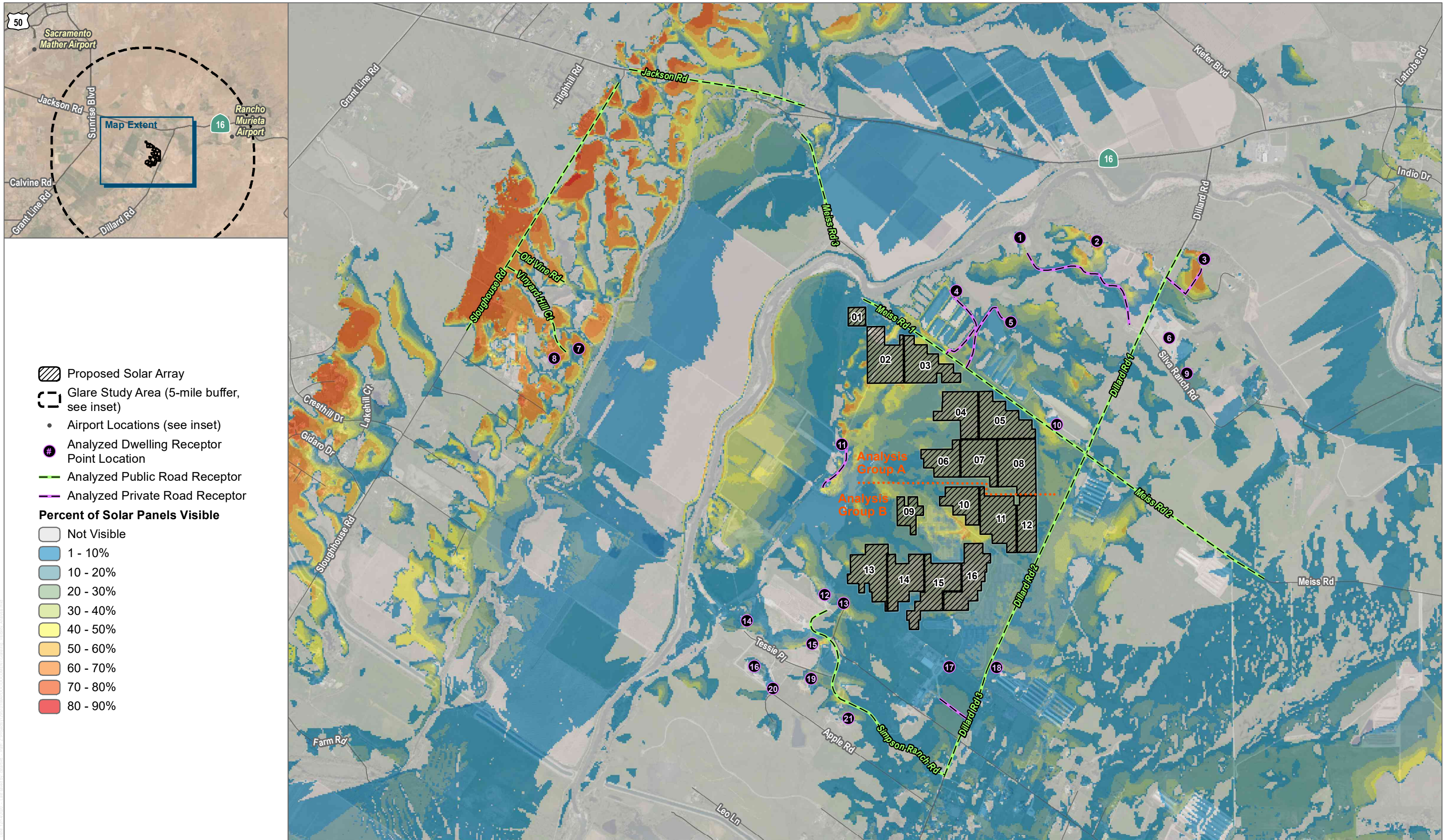
Comparison of Photovoltaic Tracking Systems

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- Proposed Solar Array
- Glare Study Area (5-mile buffer, see inset)
- Airport Locations (see inset)
- Analyzed Dwelling Receptor Point Location
- Analyzed Public Road Receptor
- Analyzed Private Road Receptor

Percent of Solar Panels Visible

- Not Visible
- 1 - 10%
- 10 - 20%
- 20 - 30%
- 30 - 40%
- 40 - 50%
- 50 - 60%
- 60 - 70%
- 70 - 80%
- 80 - 90%

SOURCE: Esri, Digital Globe 2019, Open Street Map 2019



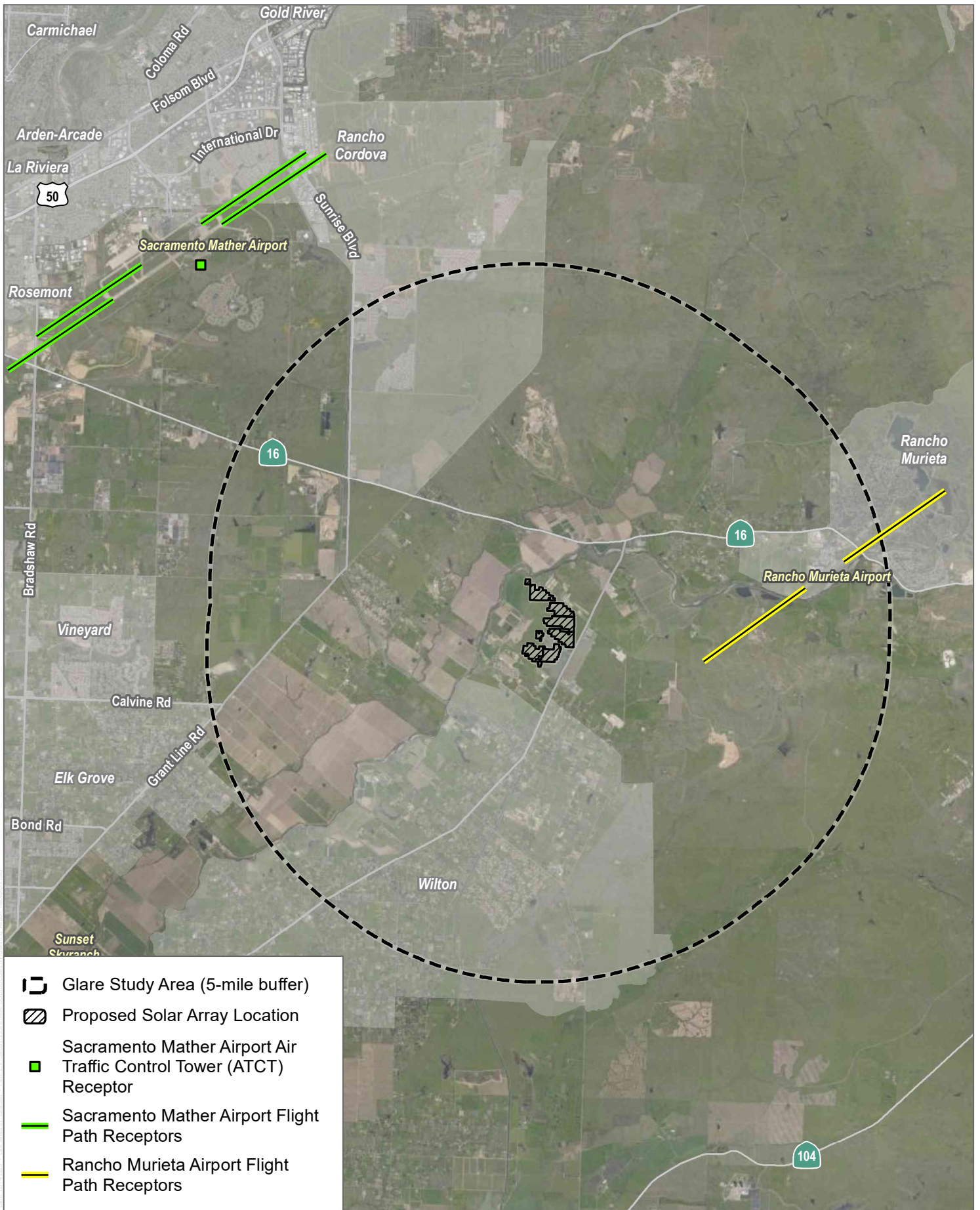
FIGURE 4






Visibility Analysis and Receptor Locations
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-  Glare Study Area (5-mile buffer)
-  Proposed Solar Array Location
-  Sacramento Mather Airport Air Traffic Control Tower (ATCT) Receptor
-  Sacramento Mather Airport Flight Path Receptors
-  Rancho Murieta Airport Flight Path Receptors

SOURCE: Esri, Digital Globe 2019, Open Street Map 2019

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APPENDIX A
Modeling Results

FORGESOLAR GLARE ANALYSIS

Project: **Sloughhouse Solar**

Site configuration: **Sloughhouse Solar - Single Axis - Smooth ARC A**

Analysis conducted by Brian Nordmann (cstarbird@dudek.com) at 20:44 on 10 Dec, 2020.

U.S. FAA 2013 Policy Adherence

The following table summarizes the policy adherence of the glare analysis based on the 2013 U.S. Federal Aviation Administration Interim Policy 78 FR 63276. This policy requires the following criteria be met for solar energy systems on airport property:

- No "yellow" glare (potential for after-image) for any flight path from threshold to 2 miles
- No glare of any kind for Air Traffic Control Tower(s) ("ATCT") at cab height.
- Default analysis and observer characteristics (see list below)

ForgeSolar does not represent or speak officially for the FAA and cannot approve or deny projects. Results are informational only.

COMPONENT	STATUS	DESCRIPTION
Analysis parameters	PASS	Analysis time interval and eye characteristics used are acceptable
2-mile flight path(s)	PASS	Flight path receptor(s) do not receive yellow glare
ATCT(s)	PASS	Receptor(s) marked as ATCT do not receive glare

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

FAA Policy 78 FR 63276 can be read at <https://www.federalregister.gov/d/2013-24729>

SITE CONFIGURATION

Analysis Parameters

DNI: peaks at 1,000.0 W/m²
Time interval: 1 min
Ocular transmission coefficient: 0.5
Pupil diameter: 0.002 m
Eye focal length: 0.017 m
Sun subtended angle: 9.3 mrad
Site Config ID: 46905.8399

PV Array(s)

Name: PV Group 01
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.482660	-121.188443	112.12	7.00	119.12
2	38.482482	-121.188443	115.09	7.00	122.09
3	38.482482	-121.188573	114.42	7.00	121.42
4	38.482482	-121.188623	114.42	7.00	121.42
5	38.482482	-121.188664	114.31	7.00	121.31
6	38.482482	-121.189820	106.41	7.00	113.41
7	38.483627	-121.189820	103.88	7.00	110.88
8	38.483627	-121.188443	113.37	7.00	120.37
9	38.482660	-121.188443	112.12	7.00	119.12

Name: PV Group 02

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.481858	-121.185501	122.87	7.00	129.87
2	38.478932	-121.185523	111.31	7.00	118.31
3	38.478932	-121.185777	111.99	7.00	118.99
4	38.478932	-121.188347	114.43	7.00	121.43
5	38.482205	-121.188347	118.92	7.00	125.92
6	38.482285	-121.188347	118.71	7.00	125.71
7	38.482384	-121.188347	118.28	7.00	125.28
8	38.482427	-121.188347	118.28	7.00	125.28
9	38.482427	-121.188178	118.65	7.00	125.65
10	38.482427	-121.186970	122.53	7.00	129.53
11	38.481277	-121.186970	122.74	7.00	129.74
12	38.481277	-121.185796	126.03	7.00	133.03
13	38.481889	-121.185796	125.18	7.00	132.18
14	38.481889	-121.185643	123.34	7.00	130.34
15	38.481889	-121.185501	122.87	7.00	129.87
16	38.481858	-121.185501	122.87	7.00	129.87

Name: PV Group 03

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

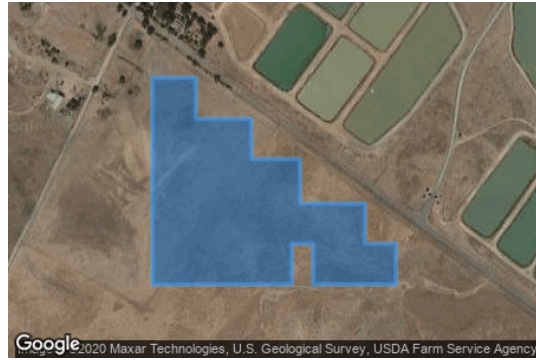
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.478932	-121.185427	110.46	7.00	117.46
2	38.481858	-121.185427	122.86	7.00	129.86
3	38.481858	-121.185225	123.93	7.00	130.94
4	38.481858	-121.184640	126.20	7.00	133.20
5	38.481277	-121.184640	124.05	7.00	131.05
6	38.481277	-121.183635	116.28	7.00	123.28
7	38.480707	-121.183635	114.71	7.00	121.71
8	38.480707	-121.182751	121.06	7.00	128.06
9	38.480077	-121.182751	116.91	7.00	123.91
10	38.480077	-121.181573	113.46	7.00	120.46
11	38.479508	-121.181573	110.51	7.00	117.51
12	38.479508	-121.181009	111.72	7.00	118.72
13	38.478932	-121.181009	105.34	7.00	112.34
14	38.478932	-121.182508	103.53	7.00	110.53
15	38.479508	-121.182508	107.92	7.00	114.92
16	38.479508	-121.182898	106.65	7.00	113.65
17	38.478932	-121.182898	102.86	7.00	109.86
18	38.478932	-121.185104	107.88	7.00	114.88
19	38.478932	-121.185427	110.46	7.00	117.46

Name: PV Group 04

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.475431	-121.179684	126.41	7.00	133.42
2	38.475431	-121.181061	118.92	7.00	125.92
3	38.476582	-121.181061	120.42	7.00	127.42
4	38.476582	-121.183193	115.19	7.00	122.19
5	38.477157	-121.183193	112.40	7.00	119.40
6	38.477157	-121.182508	119.98	7.00	126.98
7	38.477727	-121.182483	115.89	7.00	122.89
8	38.477727	-121.182456	116.24	7.00	123.24
9	38.478357	-121.182456	114.19	7.00	121.19
10	38.478357	-121.179684	109.36	7.00	116.36
11	38.475431	-121.179684	126.41	7.00	133.42

Name: PV Group 05

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.475431	-121.179588	126.84	7.00	133.84
2	38.478357	-121.179588	110.20	7.00	117.20
3	38.478357	-121.178505	112.94	7.00	119.94
4	38.477727	-121.178505	124.48	7.00	131.48
5	38.477727	-121.177500	121.30	7.00	128.31
6	38.477157	-121.177500	128.42	7.00	135.42
7	38.477157	-121.176469	118.83	7.00	125.83
8	38.476582	-121.176469	126.76	7.00	133.76
9	38.476577	-121.175438	132.80	7.00	139.80
10	38.476007	-121.175438	139.21	7.00	146.21
11	38.476007	-121.175169	139.13	7.00	146.13
12	38.475431	-121.175169	141.74	7.00	148.74
13	38.475431	-121.179588	126.84	7.00	133.84

Name: PV Group 06

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

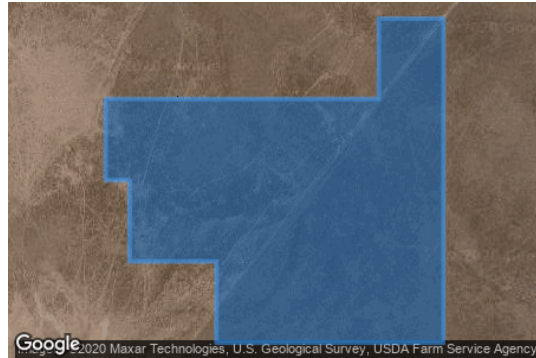
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.473081	-121.181131	117.27	7.00	124.27
2	38.473081	-121.183193	118.98	7.00	125.98
3	38.473656	-121.183193	131.58	7.00	138.58
4	38.473656	-121.183980	121.00	7.00	128.00
5	38.474232	-121.183980	118.52	7.00	125.52
6	38.474232	-121.184198	116.61	7.00	123.61
7	38.474807	-121.184198	122.76	7.00	129.76
8	38.474807	-121.181720	119.06	7.00	126.07
9	38.475377	-121.181720	116.88	7.00	123.88
10	38.475377	-121.181131	119.34	7.00	126.34
11	38.473081	-121.181131	117.27	7.00	124.27

Name: PV Group 07

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.473081	-121.181061	117.27	7.00	124.27
2	38.475377	-121.181061	120.12	7.00	127.12
3	38.475377	-121.178211	133.57	7.00	140.57
4	38.472457	-121.178211	124.33	7.00	131.33
5	38.472457	-121.178800	123.47	7.00	130.47
6	38.473026	-121.178800	128.55	7.00	135.55
7	38.473081	-121.178800	128.55	7.00	135.55
8	38.473081	-121.178800	128.55	7.00	135.55
9	38.473081	-121.181061	117.27	7.00	124.27

Name: PV Group 08
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.472457	-121.178141	124.56	7.00	131.56
2	38.475377	-121.178141	133.95	7.00	140.95
3	38.475377	-121.175169	141.66	7.00	148.66
4	38.473168	-121.175169	138.88	7.00	145.88
5	38.473081	-121.175169	139.12	7.00	146.12
6	38.472965	-121.175169	138.56	7.00	145.56
7	38.471876	-121.175169	137.93	7.00	144.93
8	38.471881	-121.176668	128.45	7.00	135.45
9	38.472457	-121.176668	131.29	7.00	138.30
10	38.472457	-121.176764	130.82	7.00	137.82
11	38.472457	-121.178141	124.56	7.00	131.56

Flight Path Receptor(s)

Name: MHR 22L
Description: None
Threshold height: 50 ft
Direction: 234.1°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.562946	-121.281960	99.00	50.00	149.01
Two-mile	38.579887	-121.251961	171.01	531.43	702.43

Name: MHR 22R

Description: None

Threshold height: 50 ft

Direction: 233.6°

Glide slope: 3.0°

Pilot view restricted? Yes

Vertical view: 30.0°

Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.562877	-121.287969	94.00	50.00	144.01
Two-mile	38.580014	-121.258153	120.61	576.83	697.43

Name: MHR 4L

Description: None

Threshold height: 50 ft

Direction: 53.5°

Glide slope: 3.0°

Pilot view restricted? Yes

Vertical view: 30.0°

Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.553010	-121.305087	81.30	50.00	131.31
Two-mile	38.535829	-121.334857	68.50	616.23	684.73

Name: MHR 4R

Description: None

Threshold height: 50 ft

Direction: 53.8°

Glide slope: 3.0°

Pilot view restricted? Yes

Vertical view: 30.0°

Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.544857	-121.313299	78.90	50.00	128.91
Two-mile	38.527773	-121.343157	43.80	638.53	682.33

Name: RIU 22

Description: None

Threshold height: 50 ft

Direction: 233.8°

Glide slope: 3.0°

Pilot view restricted? Yes

Vertical view: 30.0°

Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.489911	-121.097489	145.61	50.00	195.61
Two-mile	38.506979	-121.067639	190.31	558.83	749.14

Name: RIU 4

Description: None

Threshold height: 50 ft

Direction: 52.4°

Glide slope: 3.0°

Pilot view restricted? Yes

Vertical view: 30.0°

Azimuthal view: 50.0°

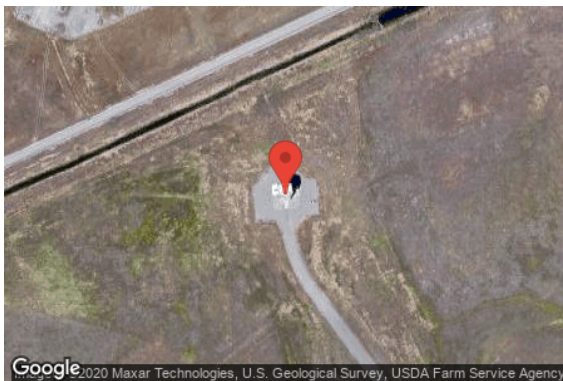


Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.483642	-121.108100	141.01	50.00	191.01
Two-mile	38.465981	-121.137378	158.51	586.03	744.54

Discrete Observation Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 1	1	38.487850	-121.176235	143.80	5.00
OP 2	2	38.487593	-121.170178	176.32	5.00
OP 3	3	38.486413	-121.161740	203.24	5.00
OP 4	4	38.484584	-121.181278	131.84	5.00
OP 5	5	38.482623	-121.177024	123.12	5.00
OP 6	6	38.481569	-121.164581	135.41	5.00
OP 7	7	38.481231	-121.211041	125.28	5.00
OP 8	8	38.480639	-121.212966	126.52	5.00
OP 9	9	38.479359	-121.163199	144.00	5.00
OP 10	10	38.476257	-121.173450	147.64	5.00
OP 11	11	38.475160	-121.190405	113.56	5.00
OP 12	12	38.465861	-121.191862	137.03	5.00
OP 13	13	38.465320	-121.190364	157.23	5.00
OP 14	14	38.464301	-121.198002	121.35	5.00
OP 15	15	38.462826	-121.192864	168.91	5.00
OP 16	16	38.461478	-121.197448	139.68	5.00
OP 17	17	38.461325	-121.182097	129.48	5.00
OP 18	18	38.461273	-121.178381	133.95	5.00
OP 19	19	38.460682	-121.192991	169.15	5.00
OP 20	20	38.460095	-121.195999	156.65	5.00
OP 21	21	38.458209	-121.190082	166.25	5.00
22-ATCT	22	38.553496	-121.287679	91.50	100.00

Map image of 22-ATCT



Route Receptor(s)

Name: Dillard Rd 1

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.487053	-121.163573	131.34	5.00	136.34
2	38.486217	-121.164147	141.52	5.00	146.52
3	38.485523	-121.164622	148.02	5.00	153.02
4	38.485173	-121.164842	149.52	5.00	154.52
5	38.484740	-121.165109	150.02	5.00	155.02
6	38.483989	-121.165561	148.49	5.00	153.49
7	38.482921	-121.166199	145.21	5.00	150.21
8	38.481794	-121.166879	144.25	5.00	149.25
9	38.480583	-121.167598	142.81	5.00	147.81
10	38.477560	-121.169417	138.54	5.00	143.54
11	38.476240	-121.170209	139.09	5.00	144.09
12	38.475556	-121.170605	139.48	5.00	144.48
13	38.474512	-121.171157	141.02	5.00	146.02

Name: Dillard Rd 2

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.461331	-121.179031	133.60	5.00	138.60
2	38.461460	-121.178962	133.36	5.00	138.36
3	38.461983	-121.178653	132.86	5.00	137.86
4	38.463084	-121.177975	133.07	5.00	138.07
5	38.463845	-121.177541	133.91	5.00	138.91
6	38.464297	-121.177267	134.38	5.00	139.38
7	38.465089	-121.176803	133.56	5.00	138.56
8	38.465927	-121.176291	132.28	5.00	137.28
9	38.467010	-121.175661	132.45	5.00	137.45
10	38.468943	-121.174489	135.86	5.00	140.86
11	38.469812	-121.173977	135.93	5.00	140.93
12	38.471412	-121.173008	140.07	5.00	145.07
13	38.474474	-121.171190	141.02	5.00	146.02

Name: Dillard Rd 3

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.454550	-121.182603	122.34	5.00	127.34
2	38.455928	-121.181895	124.87	5.00	129.87
3	38.456552	-121.181580	126.73	5.00	131.73
4	38.456909	-121.181372	127.99	5.00	132.99
5	38.457540	-121.180991	128.59	5.00	133.59
6	38.458319	-121.180539	125.98	5.00	130.98
7	38.459116	-121.180063	129.06	5.00	134.06
8	38.459515	-121.179819	130.36	5.00	135.36
9	38.459794	-121.179676	129.91	5.00	134.91
10	38.460110	-121.179551	130.09	5.00	135.09
11	38.460585	-121.179379	131.39	5.00	136.39
12	38.461020	-121.179194	133.09	5.00	138.09
13	38.461331	-121.179031	133.60	5.00	138.60

Name: Jackson Rd

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.498490	-121.206905	186.08	5.00	191.08
2	38.497844	-121.202417	141.97	5.00	146.97
3	38.497338	-121.198610	100.86	5.00	105.86
4	38.497219	-121.197847	107.27	5.00	112.27
5	38.497011	-121.196730	110.26	5.00	115.26
6	38.496804	-121.195786	107.54	5.00	112.54
7	38.496112	-121.193098	107.83	5.00	112.83

Name: Meiss Rd 1

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.484123	-121.188627	113.96	5.00	118.96
2	38.484013	-121.188337	116.15	5.00	121.15
3	38.483891	-121.188017	117.98	5.00	122.98
4	38.483770	-121.187716	120.72	5.00	125.72
5	38.483548	-121.187256	118.54	5.00	123.54
6	38.482955	-121.186092	124.83	5.00	129.83
7	38.482409	-121.185125	124.88	5.00	129.88
8	38.481381	-121.183317	116.00	5.00	121.00
9	38.480535	-121.181828	120.39	5.00	125.39
10	38.480191	-121.181224	113.66	5.00	118.66
11	38.479821	-121.180570	118.20	5.00	123.20
12	38.479360	-121.179787	110.12	5.00	115.12
13	38.478899	-121.178982	109.08	5.00	114.08
14	38.478493	-121.178276	111.59	5.00	116.59
15	38.478097	-121.177589	113.60	5.00	118.60
16	38.477618	-121.176762	118.19	5.00	123.19
17	38.477250	-121.176117	122.32	5.00	127.32
18	38.476817	-121.175374	131.11	5.00	136.11
19	38.476209	-121.174302	145.73	5.00	150.73
20	38.475409	-121.172899	145.98	5.00	150.98
21	38.474480	-121.171278	141.52	5.00	146.52

Name: Meiss Rd 2

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.474400	-121.171141	140.93	5.00	145.93
2	38.473736	-121.170009	140.40	5.00	145.40
3	38.473394	-121.169416	137.07	5.00	142.07
4	38.472728	-121.168271	135.82	5.00	140.82
5	38.472226	-121.167407	133.43	5.00	138.44
6	38.471673	-121.166452	146.01	5.00	151.01
7	38.470947	-121.165170	137.87	5.00	142.87
8	38.469282	-121.162279	128.13	5.00	133.13
9	38.468075	-121.160171	131.21	5.00	136.21
10	38.467803	-121.159651	131.69	5.00	136.69
11	38.466611	-121.157262	132.73	5.00	137.73

Name: Meiss Rd 3

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.487369	-121.190712	105.16	5.00	110.16
2	38.488003	-121.190842	104.66	5.00	109.66
3	38.488712	-121.191025	103.14	5.00	108.14
4	38.490170	-121.191508	101.91	5.00	106.91
5	38.492478	-121.192269	101.11	5.00	106.11
6	38.493199	-121.192489	110.12	5.00	115.12
7	38.493396	-121.192541	111.08	5.00	116.08
8	38.493629	-121.192634	110.70	5.00	115.70
9	38.493819	-121.192764	110.50	5.00	115.50
10	38.493956	-121.192899	109.34	5.00	114.34
11	38.494402	-121.193399	103.88	5.00	108.88

Name: Old Vine Rd
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.487279	-121.215876	147.40	5.00	152.40
2	38.486295	-121.213938	132.70	5.00	137.70
3	38.485788	-121.213026	134.25	5.00	139.25
4	38.485353	-121.212136	123.43	5.00	128.43

Name: Private Rd 1
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.486895	-121.175687	140.52	5.00	145.52
2	38.486176	-121.175177	135.00	5.00	140.00
3	38.486032	-121.175051	130.10	5.00	135.10
4	38.485942	-121.174930	127.60	5.00	132.60
5	38.485873	-121.174744	125.15	5.00	130.15
6	38.485828	-121.174476	125.72	5.00	130.72
7	38.485825	-121.174062	127.53	5.00	132.53
8	38.485878	-121.173466	130.28	5.00	135.28
9	38.485998	-121.172700	137.76	5.00	142.76
10	38.486066	-121.172281	142.12	5.00	147.12
11	38.486064	-121.171980	146.63	5.00	151.63
12	38.486011	-121.171626	150.90	5.00	155.90
13	38.485938	-121.171436	152.20	5.00	157.20
14	38.485827	-121.171342	151.02	5.00	156.02
15	38.485715	-121.171220	149.81	5.00	154.81
16	38.485624	-121.171003	148.43	5.00	153.43
17	38.485572	-121.170699	146.64	5.00	151.64
18	38.485584	-121.170339	143.34	5.00	148.34
19	38.485546	-121.170130	142.91	5.00	147.91
20	38.485449	-121.169981	143.11	5.00	148.11
21	38.485295	-121.169897	142.22	5.00	147.22
22	38.485126	-121.169785	141.73	5.00	146.73
23	38.484989	-121.169646	142.66	5.00	147.66
24	38.484913	-121.169533	143.81	5.00	148.81
25	38.484840	-121.169311	145.95	5.00	150.95
26	38.484830	-121.168992	147.87	5.00	152.87
27	38.484821	-121.168720	148.90	5.00	153.90
28	38.484755	-121.168502	149.50	5.00	154.50
29	38.484654	-121.168362	151.74	5.00	156.74
30	38.484503	-121.168223	153.30	5.00	158.30
31	38.484291	-121.168112	154.59	5.00	159.59
32	38.484015	-121.168010	153.60	5.00	158.60
33	38.483385	-121.167845	149.08	5.00	154.08
34	38.483052	-121.167794	147.00	5.00	152.00
35	38.482698	-121.167748	147.45	5.00	152.45
36	38.482515	-121.167723	147.76	5.00	152.76
37	38.482407	-121.167688	147.83	5.00	152.83

Name: Private Rd 2
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.485853	-121.161972	202.08	5.00	207.08
2	38.485674	-121.162024	202.09	5.00	207.09
3	38.485557	-121.162103	201.72	5.00	206.72
4	38.484925	-121.162661	188.09	5.00	193.09
5	38.484278	-121.163250	158.53	5.00	163.53
6	38.485290	-121.164708	149.13	5.00	154.13

Name: Private Rd 3
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.484642	-121.181794	131.86	5.00	136.86
2	38.484398	-121.181634	132.11	5.00	137.11
3	38.484314	-121.181555	131.88	5.00	136.88
4	38.484107	-121.181356	130.25	5.00	135.25
5	38.483909	-121.181120	131.93	5.00	136.93
6	38.483618	-121.180733	130.28	5.00	135.28
7	38.483481	-121.180553	131.61	5.00	136.61
8	38.483337	-121.180380	131.89	5.00	136.89
9	38.483233	-121.180264	132.06	5.00	137.06
10	38.483145	-121.180180	131.94	5.00	136.94
11	38.482970	-121.180037	131.91	5.00	136.91
12	38.482643	-121.179808	131.52	5.00	136.52
13	38.482534	-121.179758	130.05	5.00	135.05
14	38.482425	-121.179752	129.15	5.00	134.15
15	38.482335	-121.179789	130.20	5.00	135.20
16	38.482258	-121.179848	129.55	5.00	134.55
17	38.482025	-121.180069	130.34	5.00	135.34
18	38.481517	-121.180553	129.35	5.00	134.35
19	38.481398	-121.180678	129.97	5.00	134.97
20	38.481229	-121.180872	129.14	5.00	134.14
21	38.481061	-121.181102	127.49	5.00	132.49
22	38.480946	-121.181271	122.53	5.00	127.53
23	38.480892	-121.181363	126.09	5.00	131.09
24	38.480862	-121.181437	125.21	5.00	130.21
25	38.480849	-121.181514	128.79	5.00	133.79
26	38.480859	-121.181614	130.21	5.00	135.21
27	38.480902	-121.181710	131.87	5.00	136.87
28	38.480937	-121.181797	131.87	5.00	136.87
29	38.480939	-121.181853	131.58	5.00	136.58
30	38.480915	-121.181919	130.67	5.00	135.67
31	38.480702	-121.182118	127.31	5.00	132.31

Name: Private Rd 4

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



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Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.479840	-121.180566	118.20	5.00	123.20
2	38.480033	-121.180427	122.52	5.00	127.52
3	38.480381	-121.180214	122.23	5.00	127.23
4	38.480709	-121.180055	122.47	5.00	127.47
5	38.480948	-121.179961	125.70	5.00	130.70
6	38.481273	-121.179917	123.61	5.00	128.61
7	38.481573	-121.179877	127.07	5.00	132.07
8	38.481844	-121.179801	129.94	5.00	134.94
9	38.482006	-121.179743	129.41	5.00	134.41
10	38.482188	-121.179632	127.01	5.00	132.01
11	38.482593	-121.179309	122.40	5.00	127.40
12	38.483051	-121.178903	113.54	5.00	118.54
13	38.483403	-121.178576	113.45	5.00	118.45
14	38.483510	-121.178466	114.82	5.00	119.82
15	38.483551	-121.178297	117.08	5.00	122.08
16	38.483518	-121.178161	120.67	5.00	125.67
17	38.483403	-121.178076	120.67	5.00	125.67
18	38.483220	-121.177992	118.28	5.00	123.28
19	38.483055	-121.177884	118.82	5.00	123.82
20	38.482922	-121.177754	119.31	5.00	124.31
21	38.482820	-121.177573	119.85	5.00	124.85
22	38.482762	-121.177424	122.64	5.00	127.64

Name: Private Rd 5
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.475350	-121.190185	109.16	5.00	114.16
2	38.475275	-121.190099	109.01	5.00	114.01
3	38.475158	-121.190024	106.44	5.00	111.44
4	38.475054	-121.190014	105.22	5.00	110.22
5	38.474685	-121.190071	102.88	5.00	107.88
6	38.474327	-121.190057	102.26	5.00	107.26
7	38.474190	-121.190088	103.82	5.00	108.82
8	38.474015	-121.190181	104.17	5.00	109.17
9	38.473772	-121.190351	103.64	5.00	108.64
10	38.473592	-121.190531	104.22	5.00	109.22
11	38.473367	-121.190799	107.96	5.00	112.96
12	38.473184	-121.191055	106.64	5.00	111.64
13	38.472978	-121.191410	108.55	5.00	113.55
14	38.472892	-121.191583	106.79	5.00	111.79
15	38.472830	-121.191701	104.46	5.00	109.46
16	38.472735	-121.191828	105.06	5.00	110.06
17	38.472587	-121.191924	107.86	5.00	112.86
18	38.472490	-121.191930	108.86	5.00	113.86

Name: Private Rd 6
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.459367	-121.182891	128.19	5.00	133.19
2	38.458071	-121.180708	126.47	5.00	131.47

Name: Simpson Ranch Rd

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.464901	-121.191716	129.36	5.00	134.36
2	38.464718	-121.192177	126.29	5.00	131.29
3	38.464518	-121.192675	122.00	5.00	127.00
4	38.464383	-121.192868	125.04	5.00	130.04
5	38.464198	-121.192979	124.84	5.00	129.84
6	38.463980	-121.193000	128.55	5.00	133.55
7	38.463729	-121.192889	135.63	5.00	140.63
8	38.463592	-121.192727	139.85	5.00	144.85
9	38.463508	-121.192491	144.02	5.00	149.02
10	38.463420	-121.192147	150.07	5.00	155.07
11	38.463314	-121.191870	156.90	5.00	161.90
12	38.463123	-121.191541	158.77	5.00	163.77
13	38.462856	-121.191248	155.59	5.00	160.59
14	38.462608	-121.191042	151.80	5.00	156.80
15	38.462328	-121.190908	148.46	5.00	153.46
16	38.462024	-121.190844	143.74	5.00	148.74
17	38.461727	-121.190842	139.59	5.00	144.59
18	38.461341	-121.190956	141.50	5.00	146.50
19	38.460928	-121.191147	147.49	5.00	152.49
20	38.460561	-121.191297	152.99	5.00	157.99
21	38.460339	-121.191331	154.07	5.00	159.07
22	38.460103	-121.191288	157.29	5.00	162.29
23	38.459841	-121.191177	159.79	5.00	164.79
24	38.459633	-121.191002	163.13	5.00	168.13
25	38.459420	-121.190718	164.77	5.00	169.77
26	38.459278	-121.190361	162.93	5.00	167.93
27	38.458731	-121.188921	143.75	5.00	148.75
28	38.458546	-121.188505	137.34	5.00	142.34
29	38.458358	-121.188234	131.43	5.00	136.43
30	38.458175	-121.188054	128.40	5.00	133.40
31	38.457919	-121.187848	126.17	5.00	131.17
32	38.456973	-121.187022	120.16	5.00	125.16
33	38.456746	-121.186784	118.82	5.00	123.82
34	38.456620	-121.186599	117.08	5.00	122.08
35	38.456486	-121.186350	114.26	5.00	119.26
36	38.456409	-121.186114	115.21	5.00	120.21
37	38.456346	-121.185824	117.09	5.00	122.09
38	38.456321	-121.185311	120.54	5.00	125.54
39	38.456265	-121.184961	120.80	5.00	125.80
40	38.456166	-121.184658	121.52	5.00	126.52
41	38.456021	-121.184382	122.70	5.00	127.70
42	38.455819	-121.184143	123.82	5.00	128.82
43	38.455517	-121.183887	125.07	5.00	130.07
44	38.455237	-121.183668	125.63	5.00	130.63
45	38.454991	-121.183339	125.06	5.00	130.06
46	38.454854	-121.183090	124.08	5.00	129.08
47	38.454675	-121.182551	122.96	5.00	127.96

Name: Sloughouse Rd
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.482409	-121.219864	141.52	5.00	146.52
2	38.482783	-121.219568	147.57	5.00	152.57
3	38.483914	-121.218674	159.67	5.00	164.67
4	38.485347	-121.217525	147.79	5.00	152.79
5	38.486012	-121.216995	145.08	5.00	150.08
6	38.487065	-121.216137	147.63	5.00	152.63
7	38.488228	-121.215237	147.15	5.00	152.15
8	38.490013	-121.213812	131.91	5.00	136.91
9	38.491005	-121.213018	159.95	5.00	164.95
10	38.492167	-121.212099	180.82	5.00	185.82
11	38.492984	-121.211431	188.62	5.00	193.62
12	38.493689	-121.210877	194.67	5.00	199.67
13	38.494801	-121.209984	186.13	5.00	191.13
14	38.495655	-121.209289	197.06	5.00	202.06
15	38.496432	-121.208686	196.64	5.00	201.64
16	38.497248	-121.208052	197.42	5.00	202.42
17	38.497660	-121.207707	196.46	5.00	201.46

Name: Vinyard Hill Ct
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.486345	-121.216615	147.59	5.00	152.59
2	38.485982	-121.215868	140.66	5.00	145.66
3	38.485725	-121.215357	135.17	5.00	140.17
4	38.485617	-121.215194	134.06	5.00	139.06
5	38.485516	-121.215077	133.05	5.00	138.05
6	38.485365	-121.214929	131.47	5.00	136.47
7	38.484594	-121.214205	124.10	5.00	129.10
8	38.484339	-121.214008	122.85	5.00	127.85
9	38.484084	-121.213847	126.57	5.00	131.57
10	38.482820	-121.213074	129.92	5.00	134.92
11	38.482598	-121.212976	127.43	5.00	132.43
12	38.482412	-121.212951	125.16	5.00	130.16
13	38.482029	-121.212909	127.74	5.00	132.74
14	38.481685	-121.212759	129.63	5.00	134.63
15	38.481318	-121.212426	127.55	5.00	132.55
16	38.481022	-121.212043	123.43	5.00	128.43

GLARE ANALYSIS RESULTS

Summary of Glare

PV Array Name	Tilt (°)	Orient (°)	"Green" Glare min	"Yellow" Glare min	Energy kWh
PV Group 01	SA tracking	SA tracking	0	0	-
PV Group 02	SA tracking	SA tracking	0	0	-
PV Group 03	SA tracking	SA tracking	0	0	-
PV Group 04	SA tracking	SA tracking	0	0	-
PV Group 05	SA tracking	SA tracking	0	0	-
PV Group 06	SA tracking	SA tracking	0	0	-
PV Group 07	SA tracking	SA tracking	0	0	-
PV Group 08	SA tracking	SA tracking	0	0	-

Total annual glare received by each receptor

Receptor	Annual Green Glare (min)	Annual Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0

Receptor	Annual Green Glare (min)	Annual Yellow Glare (min)
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Results for: PV Group 01

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare

0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 02

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare

0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 03

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare

0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 04

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare

0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 05

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 06

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare

0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Results for: PV Group 07

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Results for: PV Group 08

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare

0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

Glare analyses do not account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions.

Several calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size.

Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.

The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual results and glare occurrence may differ.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

FORGESOLAR GLARE ANALYSIS

Project: **Sloughhouse Solar**

Site configuration: **Sloughhouse Solar - Single Axis - Smooth ARC B**

Analysis conducted by Brian Nordmann (cstarbird@dudek.com) at 20:47 on 10 Dec, 2020.

U.S. FAA 2013 Policy Adherence

The following table summarizes the policy adherence of the glare analysis based on the 2013 U.S. Federal Aviation Administration Interim Policy 78 FR 63276. This policy requires the following criteria be met for solar energy systems on airport property:

- No "yellow" glare (potential for after-image) for any flight path from threshold to 2 miles
- No glare of any kind for Air Traffic Control Tower(s) ("ATCT") at cab height.
- Default analysis and observer characteristics (see list below)

ForgeSolar does not represent or speak officially for the FAA and cannot approve or deny projects. Results are informational only.

COMPONENT	STATUS	DESCRIPTION
Analysis parameters	PASS	Analysis time interval and eye characteristics used are acceptable
2-mile flight path(s)	PASS	Flight path receptor(s) do not receive yellow glare
ATCT(s)	PASS	Receptor(s) marked as ATCT do not receive glare

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

FAA Policy 78 FR 63276 can be read at <https://www.federalregister.gov/d/2013-24729>

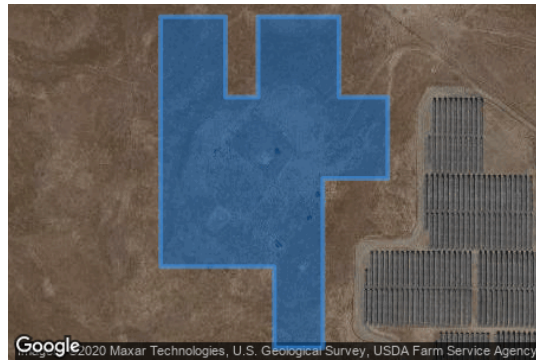
SITE CONFIGURATION

Analysis Parameters

DNI: peaks at 1,000.0 W/m²
Time interval: 1 min
Ocular transmission coefficient: 0.5
Pupil diameter: 0.002 m
Eye focal length: 0.017 m
Sun subtended angle: 9.3 mrad
Site Config ID: 46906.8399

PV Array(s)

Name: PV Group 09
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.471876	-121.186113	115.93	7.00	122.93
2	38.471876	-121.185523	116.50	7.00	123.51
3	38.471306	-121.185523	140.49	7.00	147.49
4	38.471306	-121.185229	145.50	7.00	152.50
5	38.471876	-121.185229	117.96	7.00	124.96
6	38.471876	-121.184492	121.45	7.00	128.45
7	38.471306	-121.184492	131.81	7.00	138.81
8	38.471306	-121.184051	125.66	7.00	132.66
9	38.470731	-121.184051	132.98	7.00	139.98
10	38.470731	-121.184640	135.45	7.00	142.45
11	38.469531	-121.184640	129.61	7.00	136.61
12	38.469531	-121.185082	128.86	7.00	135.86
13	38.470106	-121.185082	147.84	7.00	154.84
14	38.470106	-121.186113	130.48	7.00	137.48
15	38.471876	-121.186113	115.93	7.00	122.93

Name: PV Group 10

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

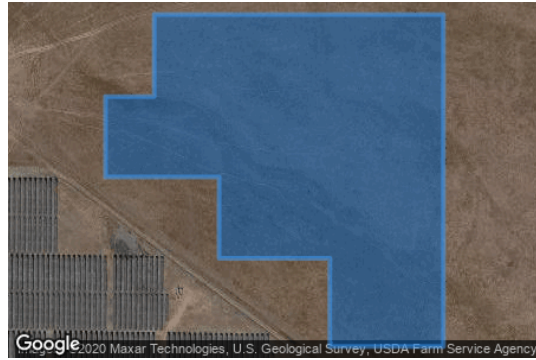
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

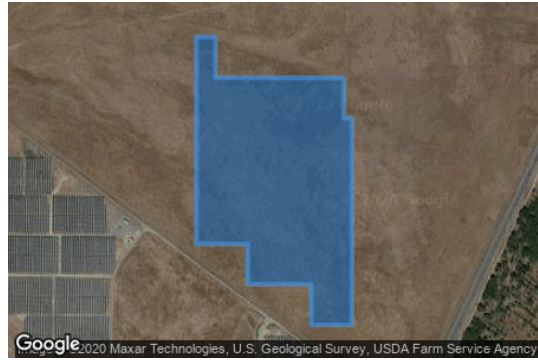
Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.470106	-121.179684	141.41	7.00	148.41
2	38.470106	-121.180715	146.27	7.00	153.28
3	38.470731	-121.180715	137.46	7.00	144.46
4	38.470731	-121.181720	143.50	7.00	150.50
5	38.471306	-121.181720	130.94	7.00	137.94
6	38.471306	-121.182751	130.70	7.00	137.70
7	38.471876	-121.182751	120.58	7.00	127.58
8	38.471876	-121.182309	121.12	7.00	128.12
9	38.472457	-121.182309	118.57	7.00	125.57
10	38.472457	-121.179684	121.61	7.00	128.61
11	38.470106	-121.179684	141.41	7.00	148.41

Name: PV Group 11
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0°
Tracking axis tilt: 0.0°
Tracking axis panel offset: 0.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.470106	-121.179588	141.59	7.00	148.59
2	38.472457	-121.179588	121.74	7.00	128.74
3	38.472457	-121.179242	122.62	7.00	129.62
4	38.471881	-121.179242	134.22	7.00	141.22
5	38.471879	-121.178340	128.65	7.00	135.65
6	38.471879	-121.178211	128.02	7.00	135.02
7	38.471879	-121.178141	128.02	7.00	135.02
8	38.471878	-121.177894	127.86	7.00	134.86
9	38.471876	-121.176911	127.80	7.00	134.80
10	38.471306	-121.176911	131.36	7.00	138.36
11	38.471306	-121.176764	131.29	7.00	138.29
12	38.468380	-121.176764	134.39	7.00	141.39
13	38.468380	-121.177500	136.29	7.00	143.29
14	38.468955	-121.177500	139.40	7.00	146.40
15	38.468955	-121.177883	141.55	7.00	148.55
16	38.468955	-121.178141	142.05	7.00	149.05
17	38.468955	-121.178211	142.21	7.00	149.21
18	38.468955	-121.178301	142.48	7.00	149.48
19	38.468955	-121.178653	144.25	7.00	151.25
20	38.469525	-121.178653	144.27	7.00	151.27
21	38.469531	-121.179588	147.16	7.00	154.16
22	38.470106	-121.179588	141.59	7.00	148.59

Name: PV Group 12

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.468380	-121.176668	134.56	7.00	141.56
2	38.471306	-121.176668	131.18	7.00	138.18
3	38.471306	-121.176469	131.06	7.00	138.06
4	38.471876	-121.176469	130.49	7.00	137.49
5	38.471876	-121.175169	137.93	7.00	144.93
6	38.468380	-121.175169	133.21	7.00	140.21
7	38.468380	-121.176668	134.56	7.00	141.56

Name: PV Group 13

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

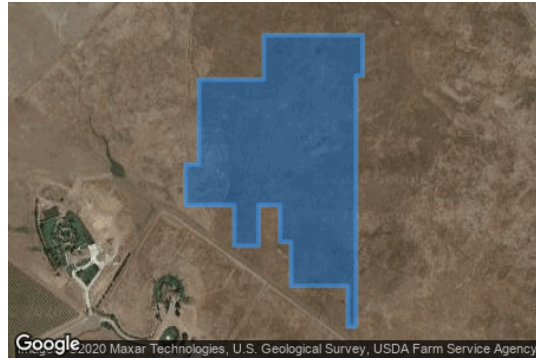
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.468380	-121.186849	125.19	7.00	132.19
2	38.468380	-121.186970	127.01	7.00	134.01
3	38.464829	-121.186970	135.68	7.00	142.68
4	38.464829	-121.187118	135.86	7.00	142.86
5	38.465405	-121.187118	144.66	7.00	151.66
6	38.465405	-121.188149	125.39	7.00	132.39
7	38.466029	-121.188149	135.07	7.00	142.07
8	38.466029	-121.188347	135.21	7.00	142.21
9	38.466550	-121.188347	124.51	7.00	131.51
10	38.466550	-121.188738	125.36	7.00	132.36
11	38.465975	-121.188738	121.43	7.00	128.43
12	38.465975	-121.189180	116.56	7.00	123.56
13	38.466550	-121.189180	131.75	7.00	138.75
14	38.466550	-121.190063	117.68	7.00	124.68
15	38.467125	-121.190063	132.40	7.00	139.40
16	38.467125	-121.189820	134.40	7.00	141.40
17	38.468325	-121.189820	128.46	7.00	135.46
18	38.468325	-121.188642	152.22	7.00	159.22
19	38.468955	-121.188642	130.21	7.00	137.21
20	38.468955	-121.186849	119.32	7.00	126.32
21	38.468380	-121.186849	125.19	7.00	132.19

Name: PV Group 14

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

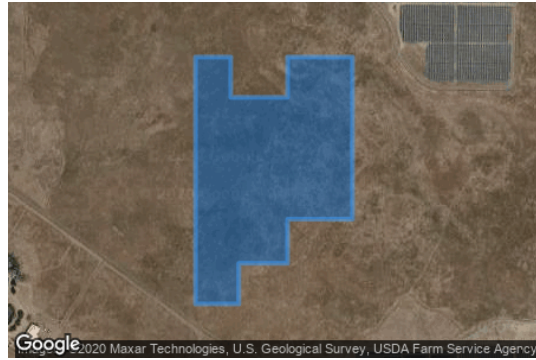
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.464829	-121.186900	135.73	7.00	142.73
2	38.468325	-121.186900	126.92	7.00	133.92
3	38.468325	-121.186849	125.16	7.00	132.16
4	38.468325	-121.186260	116.13	7.00	123.13
5	38.467755	-121.186260	116.61	7.00	123.61
6	38.467755	-121.185229	115.43	7.00	122.43
7	38.468325	-121.185229	118.52	7.00	125.52
8	38.468325	-121.184051	121.07	7.00	128.08
9	38.466029	-121.184051	147.89	7.00	154.89
10	38.466029	-121.184345	143.03	7.00	150.03
11	38.466029	-121.185229	138.57	7.00	145.57
12	38.465405	-121.185229	138.14	7.00	145.14
13	38.465405	-121.186113	140.54	7.00	147.54
14	38.464829	-121.186113	132.66	7.00	139.66
15	38.464829	-121.186900	135.73	7.00	142.73

Name: PV Group 15

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

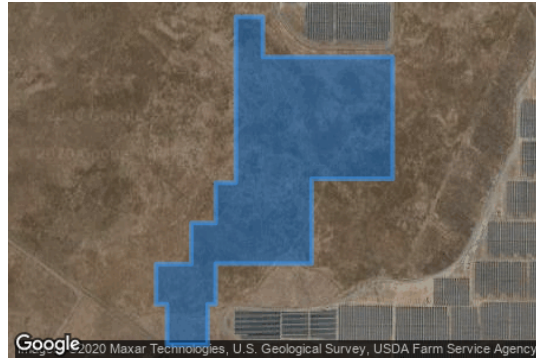
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.467755	-121.181131	132.68	7.00	139.68
2	38.466029	-121.181131	140.23	7.00	147.23
3	38.466029	-121.182604	155.39	7.00	162.39
4	38.464829	-121.182604	147.11	7.00	154.11
5	38.464829	-121.184345	143.47	7.00	150.47
6	38.464254	-121.184345	148.24	7.00	155.24
7	38.464254	-121.184492	149.88	7.00	156.88
8	38.463679	-121.184492	138.55	7.00	145.55
9	38.463679	-121.185229	135.25	7.00	142.25
10	38.464254	-121.185229	140.81	7.00	147.81
11	38.464254	-121.185427	138.30	7.00	145.30
12	38.464824	-121.185427	137.72	7.00	144.72
13	38.464824	-121.184787	142.28	7.00	149.28
14	38.465405	-121.184787	140.16	7.00	147.16
15	38.465405	-121.184345	139.81	7.00	146.81
16	38.465975	-121.184345	143.88	7.00	150.88
17	38.465975	-121.183980	147.90	7.00	154.90
18	38.468325	-121.183980	121.43	7.00	128.43
19	38.468325	-121.183487	122.82	7.00	129.82
20	38.467755	-121.183487	135.53	7.00	142.53
21	38.467755	-121.181131	132.68	7.00	139.68

Name: PV Group 16

Axis tracking: Single-axis rotation

Tracking axis orientation: 180.0°

Tracking axis tilt: 0.0°

Tracking axis panel offset: 0.0°

Max tracking angle: 60.0°

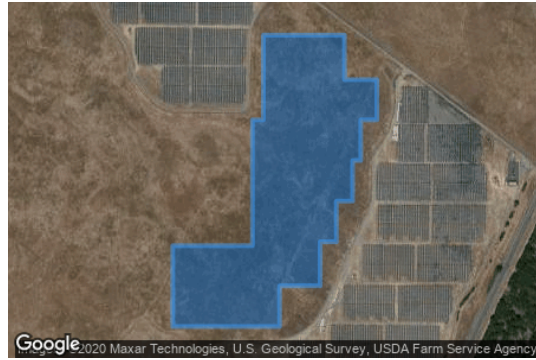
Resting angle: 60.0°

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.464829	-121.182508	147.33	7.00	154.33
2	38.465975	-121.182508	152.81	7.00	159.81
3	38.465975	-121.181061	139.56	7.00	146.56
4	38.467755	-121.181061	133.07	7.00	140.07
5	38.467755	-121.180862	134.33	7.00	141.33
6	38.468955	-121.180862	158.33	7.00	165.33
7	38.468955	-121.179389	151.59	7.00	158.59
8	38.468325	-121.179389	147.55	7.00	154.55
9	38.468325	-121.178800	139.75	7.00	146.75
10	38.467755	-121.178800	138.30	7.00	145.30
11	38.467755	-121.179095	138.81	7.00	145.81
12	38.467180	-121.179095	137.81	7.00	144.81
13	38.467180	-121.179242	138.23	7.00	145.23
14	38.466605	-121.179242	137.40	7.00	144.40
15	38.466605	-121.179536	137.84	7.00	144.84
16	38.466029	-121.179536	136.78	7.00	143.78
17	38.466029	-121.179831	137.30	7.00	144.30
18	38.465405	-121.179831	136.36	7.00	143.36
19	38.465405	-121.180567	137.49	7.00	144.49
20	38.464829	-121.180567	136.32	7.00	143.32
21	38.464829	-121.182508	147.33	7.00	154.33

Flight Path Receptor(s)

Name: MHR 22L
Description: None
Threshold height: 50 ft
Direction: 234.1°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.562946	-121.281960	99.00	50.00	149.01
Two-mile	38.579887	-121.251961	171.01	531.43	702.43

Name: MHR 22R
Description: None
Threshold height: 50 ft
Direction: 233.6°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.562877	-121.287969	94.00	50.00	144.01
Two-mile	38.580014	-121.258153	120.61	576.83	697.43

Name: MHR 4L
Description: None
Threshold height: 50 ft
Direction: 53.5°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.553010	-121.305087	81.30	50.00	131.31
Two-mile	38.535829	-121.334857	68.50	616.23	684.73

Name: MHR 4R
Description: None
Threshold height: 50 ft
Direction: 53.8°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.544857	-121.313299	78.90	50.00	128.91
Two-mile	38.527773	-121.343157	43.80	638.53	682.33

Name: RIU 22
Description: None
Threshold height: 50 ft
Direction: 233.8°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.489911	-121.097489	145.61	50.00	195.61
Two-mile	38.506979	-121.067639	190.31	558.83	749.14

Name: RIU 4
Description: None
Threshold height: 50 ft
Direction: 52.4°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°

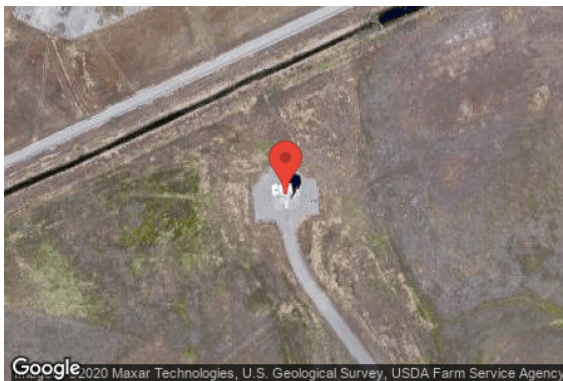


Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	38.483642	-121.108100	141.01	50.00	191.01
Two-mile	38.465981	-121.137378	158.51	586.03	744.54

Discrete Observation Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 1	1	38.487850	-121.176235	143.80	5.00
OP 2	2	38.487593	-121.170178	176.32	5.00
OP 3	3	38.486413	-121.161740	203.24	5.00
OP 4	4	38.484584	-121.181278	131.84	5.00
OP 5	5	38.482623	-121.177024	123.12	5.00
OP 6	6	38.481569	-121.164581	135.41	5.00
OP 7	7	38.481231	-121.211041	125.28	5.00
OP 8	8	38.480639	-121.212966	126.52	5.00
OP 9	9	38.479359	-121.163199	144.00	5.00
OP 10	10	38.476257	-121.173450	147.64	5.00
OP 11	11	38.475160	-121.190405	113.56	5.00
OP 12	12	38.465861	-121.191862	137.03	5.00
OP 13	13	38.465320	-121.190364	157.23	5.00
OP 14	14	38.464301	-121.198002	121.35	5.00
OP 15	15	38.462826	-121.192864	168.91	5.00
OP 16	16	38.461478	-121.197448	139.68	5.00
OP 17	17	38.461325	-121.182097	129.48	5.00
OP 18	18	38.461273	-121.178381	133.95	5.00
OP 19	19	38.460682	-121.192991	169.15	5.00
OP 20	20	38.460095	-121.195999	156.65	5.00
OP 21	21	38.458209	-121.190082	166.25	5.00
22-ATCT	22	38.553496	-121.287679	91.50	100.00

Map image of 22-ATCT



Route Receptor(s)

Name: Dillard Rd 1

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.487053	-121.163573	131.34	5.00	136.34
2	38.486217	-121.164147	141.52	5.00	146.52
3	38.485523	-121.164622	148.02	5.00	153.02
4	38.485173	-121.164842	149.52	5.00	154.52
5	38.484740	-121.165109	150.02	5.00	155.02
6	38.483989	-121.165561	148.49	5.00	153.49
7	38.482921	-121.166199	145.21	5.00	150.21
8	38.481794	-121.166879	144.25	5.00	149.25
9	38.480583	-121.167598	142.81	5.00	147.81
10	38.477560	-121.169417	138.54	5.00	143.54
11	38.476240	-121.170209	139.09	5.00	144.09
12	38.475556	-121.170605	139.48	5.00	144.48
13	38.474512	-121.171157	141.02	5.00	146.02

Name: Dillard Rd 2

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.461331	-121.179031	133.60	5.00	138.60
2	38.461460	-121.178962	133.36	5.00	138.36
3	38.461983	-121.178653	132.86	5.00	137.86
4	38.463084	-121.177975	133.07	5.00	138.07
5	38.463845	-121.177541	133.91	5.00	138.91
6	38.464297	-121.177267	134.38	5.00	139.38
7	38.465089	-121.176803	133.56	5.00	138.56
8	38.465927	-121.176291	132.28	5.00	137.28
9	38.467010	-121.175661	132.45	5.00	137.45
10	38.468943	-121.174489	135.86	5.00	140.86
11	38.469812	-121.173977	135.93	5.00	140.93
12	38.471412	-121.173008	140.07	5.00	145.07
13	38.474474	-121.171190	141.02	5.00	146.02

Name: Dillard Rd 3

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.454550	-121.182603	122.34	5.00	127.34
2	38.455928	-121.181895	124.87	5.00	129.87
3	38.456552	-121.181580	126.73	5.00	131.73
4	38.456909	-121.181372	127.99	5.00	132.99
5	38.457540	-121.180991	128.59	5.00	133.59
6	38.458319	-121.180539	125.98	5.00	130.98
7	38.459116	-121.180063	129.06	5.00	134.06
8	38.459515	-121.179819	130.36	5.00	135.36
9	38.459794	-121.179676	129.91	5.00	134.91
10	38.460110	-121.179551	130.09	5.00	135.09
11	38.460585	-121.179379	131.39	5.00	136.39
12	38.461020	-121.179194	133.09	5.00	138.09
13	38.461331	-121.179031	133.60	5.00	138.60

Name: Jackson Rd

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.498490	-121.206905	186.08	5.00	191.08
2	38.497844	-121.202417	141.97	5.00	146.97
3	38.497338	-121.198610	100.86	5.00	105.86
4	38.497219	-121.197847	107.27	5.00	112.27
5	38.497011	-121.196730	110.26	5.00	115.26
6	38.496804	-121.195786	107.54	5.00	112.54
7	38.496112	-121.193098	107.83	5.00	112.83

Name: Meiss Rd 1

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.484123	-121.188627	113.96	5.00	118.96
2	38.484013	-121.188337	116.15	5.00	121.15
3	38.483891	-121.188017	117.98	5.00	122.98
4	38.483770	-121.187716	120.72	5.00	125.72
5	38.483548	-121.187256	118.54	5.00	123.54
6	38.482955	-121.186092	124.83	5.00	129.83
7	38.482409	-121.185125	124.88	5.00	129.88
8	38.481381	-121.183317	116.00	5.00	121.00
9	38.480535	-121.181828	120.39	5.00	125.39
10	38.480191	-121.181224	113.66	5.00	118.66
11	38.479821	-121.180570	118.20	5.00	123.20
12	38.479360	-121.179787	110.12	5.00	115.12
13	38.478899	-121.178982	109.08	5.00	114.08
14	38.478493	-121.178276	111.59	5.00	116.59
15	38.478097	-121.177589	113.60	5.00	118.60
16	38.477618	-121.176762	118.19	5.00	123.19
17	38.477250	-121.176117	122.32	5.00	127.32
18	38.476817	-121.175374	131.11	5.00	136.11
19	38.476209	-121.174302	145.73	5.00	150.73
20	38.475409	-121.172899	145.98	5.00	150.98
21	38.474480	-121.171278	141.52	5.00	146.52

Name: Meiss Rd 2

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.474400	-121.171141	140.93	5.00	145.93
2	38.473736	-121.170009	140.40	5.00	145.40
3	38.473394	-121.169416	137.07	5.00	142.07
4	38.472728	-121.168271	135.82	5.00	140.82
5	38.472226	-121.167407	133.43	5.00	138.44
6	38.471673	-121.166452	146.01	5.00	151.01
7	38.470947	-121.165170	137.87	5.00	142.87
8	38.469282	-121.162279	128.13	5.00	133.13
9	38.468075	-121.160171	131.21	5.00	136.21
10	38.467803	-121.159651	131.69	5.00	136.69
11	38.466611	-121.157262	132.73	5.00	137.73

Name: Meiss Rd 3

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.487369	-121.190712	105.16	5.00	110.16
2	38.488003	-121.190842	104.66	5.00	109.66
3	38.488712	-121.191025	103.14	5.00	108.14
4	38.490170	-121.191508	101.91	5.00	106.91
5	38.492478	-121.192269	101.11	5.00	106.11
6	38.493199	-121.192489	110.12	5.00	115.12
7	38.493396	-121.192541	111.08	5.00	116.08
8	38.493629	-121.192634	110.70	5.00	115.70
9	38.493819	-121.192764	110.50	5.00	115.50
10	38.493956	-121.192899	109.34	5.00	114.34
11	38.494402	-121.193399	103.88	5.00	108.88

Name: Old Vine Rd
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.487279	-121.215876	147.40	5.00	152.40
2	38.486295	-121.213938	132.70	5.00	137.70
3	38.485788	-121.213026	134.25	5.00	139.25
4	38.485353	-121.212136	123.43	5.00	128.43

Name: Private Rd 1
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.486895	-121.175687	140.52	5.00	145.52
2	38.486176	-121.175177	135.00	5.00	140.00
3	38.486032	-121.175051	130.10	5.00	135.10
4	38.485942	-121.174930	127.60	5.00	132.60
5	38.485873	-121.174744	125.15	5.00	130.15
6	38.485828	-121.174476	125.72	5.00	130.72
7	38.485825	-121.174062	127.53	5.00	132.53
8	38.485878	-121.173466	130.28	5.00	135.28
9	38.485998	-121.172700	137.76	5.00	142.76
10	38.486066	-121.172281	142.12	5.00	147.12
11	38.486064	-121.171980	146.63	5.00	151.63
12	38.486011	-121.171626	150.90	5.00	155.90
13	38.485938	-121.171436	152.20	5.00	157.20
14	38.485827	-121.171342	151.02	5.00	156.02
15	38.485715	-121.171220	149.81	5.00	154.81
16	38.485624	-121.171003	148.43	5.00	153.43
17	38.485572	-121.170699	146.64	5.00	151.64
18	38.485584	-121.170339	143.34	5.00	148.34
19	38.485546	-121.170130	142.91	5.00	147.91
20	38.485449	-121.169981	143.11	5.00	148.11
21	38.485295	-121.169897	142.22	5.00	147.22
22	38.485126	-121.169785	141.73	5.00	146.73
23	38.484989	-121.169646	142.66	5.00	147.66
24	38.484913	-121.169533	143.81	5.00	148.81
25	38.484840	-121.169311	145.95	5.00	150.95
26	38.484830	-121.168992	147.87	5.00	152.87
27	38.484821	-121.168720	148.90	5.00	153.90
28	38.484755	-121.168502	149.50	5.00	154.50
29	38.484654	-121.168362	151.74	5.00	156.74
30	38.484503	-121.168223	153.30	5.00	158.30
31	38.484291	-121.168112	154.59	5.00	159.59
32	38.484015	-121.168010	153.60	5.00	158.60
33	38.483385	-121.167845	149.08	5.00	154.08
34	38.483052	-121.167794	147.00	5.00	152.00
35	38.482698	-121.167748	147.45	5.00	152.45
36	38.482515	-121.167723	147.76	5.00	152.76
37	38.482407	-121.167688	147.83	5.00	152.83

Name: Private Rd 2
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.485853	-121.161972	202.08	5.00	207.08
2	38.485674	-121.162024	202.09	5.00	207.09
3	38.485557	-121.162103	201.72	5.00	206.72
4	38.484925	-121.162661	188.09	5.00	193.09
5	38.484278	-121.163250	158.53	5.00	163.53
6	38.485290	-121.164708	149.13	5.00	154.13

Name: Private Rd 3
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.484642	-121.181794	131.86	5.00	136.86
2	38.484398	-121.181634	132.11	5.00	137.11
3	38.484314	-121.181555	131.88	5.00	136.88
4	38.484107	-121.181356	130.25	5.00	135.25
5	38.483909	-121.181120	131.93	5.00	136.93
6	38.483618	-121.180733	130.28	5.00	135.28
7	38.483481	-121.180553	131.61	5.00	136.61
8	38.483337	-121.180380	131.89	5.00	136.89
9	38.483233	-121.180264	132.06	5.00	137.06
10	38.483145	-121.180180	131.94	5.00	136.94
11	38.482970	-121.180037	131.91	5.00	136.91
12	38.482643	-121.179808	131.52	5.00	136.52
13	38.482534	-121.179758	130.05	5.00	135.05
14	38.482425	-121.179752	129.15	5.00	134.15
15	38.482335	-121.179789	130.20	5.00	135.20
16	38.482258	-121.179848	129.55	5.00	134.55
17	38.482025	-121.180069	130.34	5.00	135.34
18	38.481517	-121.180553	129.35	5.00	134.35
19	38.481398	-121.180678	129.97	5.00	134.97
20	38.481229	-121.180872	129.14	5.00	134.14
21	38.481061	-121.181102	127.49	5.00	132.49
22	38.480946	-121.181271	122.53	5.00	127.53
23	38.480892	-121.181363	126.09	5.00	131.09
24	38.480862	-121.181437	125.21	5.00	130.21
25	38.480849	-121.181514	128.79	5.00	133.79
26	38.480859	-121.181614	130.21	5.00	135.21
27	38.480902	-121.181710	131.87	5.00	136.87
28	38.480937	-121.181797	131.87	5.00	136.87
29	38.480939	-121.181853	131.58	5.00	136.58
30	38.480915	-121.181919	130.67	5.00	135.67
31	38.480702	-121.182118	127.31	5.00	132.31

Name: Private Rd 4

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.479840	-121.180566	118.20	5.00	123.20
2	38.480033	-121.180427	122.52	5.00	127.52
3	38.480381	-121.180214	122.23	5.00	127.23
4	38.480709	-121.180055	122.47	5.00	127.47
5	38.480948	-121.179961	125.70	5.00	130.70
6	38.481273	-121.179917	123.61	5.00	128.61
7	38.481573	-121.179877	127.07	5.00	132.07
8	38.481844	-121.179801	129.94	5.00	134.94
9	38.482006	-121.179743	129.41	5.00	134.41
10	38.482188	-121.179632	127.01	5.00	132.01
11	38.482593	-121.179309	122.40	5.00	127.40
12	38.483051	-121.178903	113.54	5.00	118.54
13	38.483403	-121.178576	113.45	5.00	118.45
14	38.483510	-121.178466	114.82	5.00	119.82
15	38.483551	-121.178297	117.08	5.00	122.08
16	38.483518	-121.178161	120.67	5.00	125.67
17	38.483403	-121.178076	120.67	5.00	125.67
18	38.483220	-121.177992	118.28	5.00	123.28
19	38.483055	-121.177884	118.82	5.00	123.82
20	38.482922	-121.177754	119.31	5.00	124.31
21	38.482820	-121.177573	119.85	5.00	124.85
22	38.482762	-121.177424	122.64	5.00	127.64

Name: Private Rd 5
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.475350	-121.190185	109.16	5.00	114.16
2	38.475275	-121.190099	109.01	5.00	114.01
3	38.475158	-121.190024	106.44	5.00	111.44
4	38.475054	-121.190014	105.22	5.00	110.22
5	38.474685	-121.190071	102.88	5.00	107.88
6	38.474327	-121.190057	102.26	5.00	107.26
7	38.474190	-121.190088	103.82	5.00	108.82
8	38.474015	-121.190181	104.17	5.00	109.17
9	38.473772	-121.190351	103.64	5.00	108.64
10	38.473592	-121.190531	104.22	5.00	109.22
11	38.473367	-121.190799	107.96	5.00	112.96
12	38.473184	-121.191055	106.64	5.00	111.64
13	38.472978	-121.191410	108.55	5.00	113.55
14	38.472892	-121.191583	106.79	5.00	111.79
15	38.472830	-121.191701	104.46	5.00	109.46
16	38.472735	-121.191828	105.06	5.00	110.06
17	38.472587	-121.191924	107.86	5.00	112.86
18	38.472490	-121.191930	108.86	5.00	113.86

Name: Private Rd 6
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.459367	-121.182891	128.19	5.00	133.19
2	38.458071	-121.180708	126.47	5.00	131.47

Name: Simpson Ranch Rd

Path type: Two-way

Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.464901	-121.191716	129.36	5.00	134.36
2	38.464718	-121.192177	126.29	5.00	131.29
3	38.464518	-121.192675	122.00	5.00	127.00
4	38.464383	-121.192868	125.04	5.00	130.04
5	38.464198	-121.192979	124.84	5.00	129.84
6	38.463980	-121.193000	128.55	5.00	133.55
7	38.463729	-121.192889	135.63	5.00	140.63
8	38.463592	-121.192727	139.85	5.00	144.85
9	38.463508	-121.192491	144.02	5.00	149.02
10	38.463420	-121.192147	150.07	5.00	155.07
11	38.463314	-121.191870	156.90	5.00	161.90
12	38.463123	-121.191541	158.77	5.00	163.77
13	38.462856	-121.191248	155.59	5.00	160.59
14	38.462608	-121.191042	151.80	5.00	156.80
15	38.462328	-121.190908	148.46	5.00	153.46
16	38.462024	-121.190844	143.74	5.00	148.74
17	38.461727	-121.190842	139.59	5.00	144.59
18	38.461341	-121.190956	141.50	5.00	146.50
19	38.460928	-121.191147	147.49	5.00	152.49
20	38.460561	-121.191297	152.99	5.00	157.99
21	38.460339	-121.191331	154.07	5.00	159.07
22	38.460103	-121.191288	157.29	5.00	162.29
23	38.459841	-121.191177	159.79	5.00	164.79
24	38.459633	-121.191002	163.13	5.00	168.13
25	38.459420	-121.190718	164.77	5.00	169.77
26	38.459278	-121.190361	162.93	5.00	167.93
27	38.458731	-121.188921	143.75	5.00	148.75
28	38.458546	-121.188505	137.34	5.00	142.34
29	38.458358	-121.188234	131.43	5.00	136.43
30	38.458175	-121.188054	128.40	5.00	133.40
31	38.457919	-121.187848	126.17	5.00	131.17
32	38.456973	-121.187022	120.16	5.00	125.16
33	38.456746	-121.186784	118.82	5.00	123.82
34	38.456620	-121.186599	117.08	5.00	122.08
35	38.456486	-121.186350	114.26	5.00	119.26
36	38.456409	-121.186114	115.21	5.00	120.21
37	38.456346	-121.185824	117.09	5.00	122.09
38	38.456321	-121.185311	120.54	5.00	125.54
39	38.456265	-121.184961	120.80	5.00	125.80
40	38.456166	-121.184658	121.52	5.00	126.52
41	38.456021	-121.184382	122.70	5.00	127.70
42	38.455819	-121.184143	123.82	5.00	128.82
43	38.455517	-121.183887	125.07	5.00	130.07
44	38.455237	-121.183668	125.63	5.00	130.63
45	38.454991	-121.183339	125.06	5.00	130.06
46	38.454854	-121.183090	124.08	5.00	129.08
47	38.454675	-121.182551	122.96	5.00	127.96

Name: Sloughouse Rd
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.482409	-121.219864	141.52	5.00	146.52
2	38.482783	-121.219568	147.57	5.00	152.57
3	38.483914	-121.218674	159.67	5.00	164.67
4	38.485347	-121.217525	147.79	5.00	152.79
5	38.486012	-121.216995	145.08	5.00	150.08
6	38.487065	-121.216137	147.63	5.00	152.63
7	38.488228	-121.215237	147.15	5.00	152.15
8	38.490013	-121.213812	131.91	5.00	136.91
9	38.491005	-121.213018	159.95	5.00	164.95
10	38.492167	-121.212099	180.82	5.00	185.82
11	38.492984	-121.211431	188.62	5.00	193.62
12	38.493689	-121.210877	194.67	5.00	199.67
13	38.494801	-121.209984	186.13	5.00	191.13
14	38.495655	-121.209289	197.06	5.00	202.06
15	38.496432	-121.208686	196.64	5.00	201.64
16	38.497248	-121.208052	197.42	5.00	202.42
17	38.497660	-121.207707	196.46	5.00	201.46

Name: Vinyard Hill Ct
Path type: Two-way
Observer view angle: 50.0°

Note: Route receptors are excluded from this FAA policy review. Use the 2-mile flight path receptor to simulate flight paths according to FAA guidelines.



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	38.486345	-121.216615	147.59	5.00	152.59
2	38.485982	-121.215868	140.66	5.00	145.66
3	38.485725	-121.215357	135.17	5.00	140.17
4	38.485617	-121.215194	134.06	5.00	139.06
5	38.485516	-121.215077	133.05	5.00	138.05
6	38.485365	-121.214929	131.47	5.00	136.47
7	38.484594	-121.214205	124.10	5.00	129.10
8	38.484339	-121.214008	122.85	5.00	127.85
9	38.484084	-121.213847	126.57	5.00	131.57
10	38.482820	-121.213074	129.92	5.00	134.92
11	38.482598	-121.212976	127.43	5.00	132.43
12	38.482412	-121.212951	125.16	5.00	130.16
13	38.482029	-121.212909	127.74	5.00	132.74
14	38.481685	-121.212759	129.63	5.00	134.63
15	38.481318	-121.212426	127.55	5.00	132.55
16	38.481022	-121.212043	123.43	5.00	128.43

GLARE ANALYSIS RESULTS

Summary of Glare

PV Array Name	Tilt (°)	Orient (°)	"Green" Glare min	"Yellow" Glare min	Energy kWh
PV Group 09	SA tracking	SA tracking	0	0	-
PV Group 10	SA tracking	SA tracking	0	0	-
PV Group 11	SA tracking	SA tracking	0	0	-
PV Group 12	SA tracking	SA tracking	0	0	-
PV Group 13	SA tracking	SA tracking	0	0	-
PV Group 14	SA tracking	SA tracking	0	0	-
PV Group 15	SA tracking	SA tracking	0	0	-
PV Group 16	SA tracking	SA tracking	0	0	-

Total annual glare received by each receptor

Receptor	Annual Green Glare (min)	Annual Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0

Receptor	Annual Green Glare (min)	Annual Yellow Glare (min)
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Results for: PV Group 09

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare

0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 10

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare

0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 11

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare

0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare

0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare

0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Results for: PV Group 12

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare

0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare

0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare

0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Results for: PV Group 13

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare
0 minutes of green glare

Results for: PV Group 14

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare

0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Results for: PV Group 15

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
OP 20	0	0
OP 21	0	0
22-ATCT	0	0
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare

0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare

0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Results for: PV Group 16

Receptor	Green Glare (min)	Yellow Glare (min)
MHR 22L	0	0
MHR 22R	0	0
MHR 4L	0	0
MHR 4R	0	0
RIU 22	0	0
RIU 4	0	0
OP 1	0	0
OP 2	0	0
OP 3	0	0
OP 4	0	0
OP 5	0	0
OP 6	0	0
OP 7	0	0
OP 8	0	0
OP 9	0	0
OP 10	0	0
OP 11	0	0
OP 12	0	0
OP 13	0	0
OP 14	0	0
OP 15	0	0
OP 16	0	0
OP 17	0	0
OP 18	0	0
OP 19	0	0
OP 20	0	0
OP 21	0	0
22-ATCT	0	0

Receptor	Green Glare (min)	Yellow Glare (min)
Dillard Rd 1	0	0
Dillard Rd 2	0	0
Dillard Rd 3	0	0
Jackson Rd	0	0
Meiss Rd 1	0	0
Meiss Rd 2	0	0
Meiss Rd 3	0	0
Old Vine Rd	0	0
Private Rd 1	0	0
Private Rd 2	0	0
Private Rd 3	0	0
Private Rd 4	0	0
Private Rd 5	0	0
Private Rd 6	0	0
Simpson Ranch Rd	0	0
Sloughouse Rd	0	0
Vinyard Hill Ct	0	0

Flight Path: MHR 22L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 22R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4L

0 minutes of yellow glare
0 minutes of green glare

Flight Path: MHR 4R

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 22

0 minutes of yellow glare
0 minutes of green glare

Flight Path: RIU 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 1

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 2

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 3

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 4

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 5

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 6

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 7

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 8

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 9

0 minutes of yellow glare

0 minutes of green glare

Point Receptor: OP 10

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 11

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 12

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 13

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 14

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 15

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 16

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 17

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 18

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 19

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 20

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: OP 21

0 minutes of yellow glare
0 minutes of green glare

Point Receptor: 22-ATCT

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Dillard Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Jackson Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Meiss Rd 2

0 minutes of yellow glare

0 minutes of green glare

Route: Meiss Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Old Vine Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 1

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 2

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 3

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 4

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 5

0 minutes of yellow glare
0 minutes of green glare

Route: Private Rd 6

0 minutes of yellow glare
0 minutes of green glare

Route: Simpson Ranch Rd

0 minutes of yellow glare
0 minutes of green glare

Route: Sloughouse Rd

0 minutes of yellow glare

0 minutes of green glare

Route: Vinyard Hill Ct

0 minutes of yellow glare

0 minutes of green glare

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

Glare analyses do not account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions.

Several calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.

The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size.

Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.

The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual results and glare occurrence may differ.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Appendix F Air Quality

MEMORANDUM

To: Sloughhouse Solar, LLC
From: Adam Poll, Senior Air Quality Technical Specialist, Dudek
Subject: Air Quality and Greenhouse Gas Emission Calculations Technical Memorandum for the Sloughhouse Solar Project – Preferred Alternative
Date: September 2, 2022
Attachments: CalEEMod Emissions Outputs

Introduction

Dudek is pleased to submit this air quality, and greenhouse gas (GHG) emissions construction and operational emissions modeling and methodology memorandum to assist the County of Sacramento with environmental documentation requirements for the Sloughhouse Solar Project (proposed project). The Sloughhouse Solar Project is in the Sloughhouse community within the County of Sacramento (County), California. This memorandum addresses the construction and operational emissions of the Preferred Alternative.

The purpose of this memorandum is to estimate air pollutant emissions and GHG emissions from construction and operation of the proposed project as it would be modified under the . The contents of this memorandum are as follows: project description; general analysis and methodology, construction, and operation assumptions; emissions calculations and references cited.

1 Project Description

The proposed project is an approximately 50 megawatt alternating current (MWac) solar photovoltaic (PV) and energy storage facility on approximately 400 acres (inclusive of solar field, energy storage, project substation(s), roads, retention basins, etc.), located on the southwest corner of Meiss Road and Dillard Road adjacent to an existing solar energy facility located at 7794 Dillard Road, Sacramento County, California. The project site is approximately 1.96 miles southwest of Jackson Road, in the Cosumnes community. The proposed project would also include the construction, operation, and maintenance of a 69-kilovolt (kV) generation tie (gen-tie) line from the proposed solar facility, located within the east side of the Dillard Road right of way. The proposed project, once built, would be operated remotely through a local solar operations and maintenance company.

During operation of the proposed project water will be used for operations and maintenance of the project. The proposed project plans to utilize existing on-site wells. The primary use of on-site water during operation would be for dust control. The proposed project may also use water to wash the solar modules should it be determined to be beneficial to the proposed project. Consistent with the projects water supply assessment, the proposed project anticipates a water requirement of approximately 2- acre-feet per year during project operation.

Substation/Switchyard

The proposed project will also include an onsite substation will step-up the voltage from the collection level voltage to 69 kV. Breakers, buswork, protective relaying, Supervisory Control and Data Acquisition (SCADA), and associated substation equipment will be constructed on the project site. The communication system may include above or below ground fiber optic cable or microwave tower. The project will be interconnected to the regional transmission system from the onsite switchyard via the gen-tie facilities.

Energy Storage

The proposed project will likely incorporate a battery energy storage facility as well as energy storage being housed within the inverters. The battery energy storage component may be centralized and located adjacent to the substation or switchgear, or alternatively, the energy storage component may be distributed throughout the plant adjacent to individual power conversion centers.

2 General Analysis and Methodology

The project is located within the Sacramento Valley Air Basin (SVAB) and is within the jurisdictional boundaries of the Sacramento Metropolitan Air Quality Management District (SMAQMD), which has jurisdiction over the County where the project is located. The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 and OFFROAD model were used to estimate emissions from construction of the project (CAPCOA 2021) (CARB 2021). CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with construction activities and operation of a variety of land use projects, such as residential, commercial, and industrial facilities. CalEEMod input parameters, including the land use type used to represent the project and its size, construction schedule, and anticipated use of construction equipment, were based on information provided by the applicant or default model assumptions if project specifics were unavailable. The use of ATVs was calculated in the California Air Resource Board's (CARB) OFFROAD model as ATVs are not a selectable equipment type in CalEEMod. Construction was assumed to commence in May 2022 through December 2022. The first operational year was assumed to be 2023.

Air Quality

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include reactive organic gases (ROGs, also referred to as volatile organic compounds (VOCs)), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (coarse particulate matter, or PM₁₀), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size (fine particulate matter, or PM_{2.5}). ROGs and NO_x are important because they are precursors to ozone (O₃). Criteria air pollutant emissions associated with construction of the proposed project were estimated for the following emission sources: operation of off-road construction equipment, paving, architectural coating, on-road material delivery trucks, and worker vehicles.

Greenhouse Gases

GHGs are gases emitted from human and non-human activities, principally from the combustion of fossil fuels that contribute carbon to the atmosphere. The consensus of the scientific community is that GHG emissions from human activities are contributing to climate change effects, including sea level rise and increases in atmospheric temperature. Global GHG emissions due to human activities have grown since pre-industrial times, with an increase of 70% between 1970 and 2004. Carbon dioxide (CO₂) is the most important anthropogenic GHG. Its annual emissions grew by about 80% between 1970 and 2004 (IPCC 2007). Climate models indicate that climate change is leading to more extreme hot days and fewer cold nights in California; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and seasons that start earlier and end later (CNRA 2018). The County of Sacramento adopted a Climate Action Plan (CAP) in September 2021. The CAP projects local increases in average temperature by mid-century and additional increases by late century (County of Sacramento 2021). The total annual precipitation in the County is project to increase slightly over this same period.

The potential effect each GHG has on climate change is measured as a combination of the mass of its emissions and the potential of a gas or aerosol to trap heat in the atmosphere, known as its global warming potential (GWP), which varies among GHGs. Total GHG emissions are expressed as a function of how much warming would be caused by the same mass of CO₂. Thus, GHG emissions are typically measured in terms of metric tons (MT) of CO₂ equivalent (CO₂e). The CO₂e for a gas is derived by multiplying the mass of the gas by the associated GWP, such that MT of CO₂e = (MT of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH₄ is 25, which means that emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂, and the GWP for N₂O is 298. This information is based on the Intergovernmental Panel on Climate Change’s Fourth Assessment Report (IPCC 2007). GHG emissions associated with construction of the project were estimated for the following emission sources: operation of off-road construction equipment, on-road vendor trucks, and worker vehicles.

Significant reductions in electricity generation from fossil fuels, and large increases in electricity generation from solar facilities are key elements of the State of California goal to reduce GHG emissions by 80 percent by 2050. (California Air Resources Board (CARB), Scoping Plan Update, p. ES-10 (2017). State law and the Scoping Plan calls for generating 50 percent of electricity from solar and other renewable energy sources by 2050.

3 Construction and Operational Assumptions

3.1 Construction and Decommissioning Assumptions

Construction and decommissioning assumptions, including timing, phasing, equipment type and quantity, as well as worker and vendor truck trips, were based on information provided by the applicant. Default values provided by CalEEMod were used where detailed project information was not available. For purposes of estimating project GHG

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emissions, it is assumed that construction of the project would commence in May 2022¹ and would end in December 2022. Project decommissioning is anticipated to occur 30 years after the project becomes operational, beginning in January 2053 and ending in November 2053. Because CARB's EMFAC2017 only has emission factors out to 2050, the year 2050 was assumed for modeling emissions of decommissioning to account for mobile sources. The analysis contained herein is based on the following assumptions: the duration of phases is approximate:

- Construction
 - Perimeter Fence Installation – 1 month (May 2022)
 - Site Preparation – 2 months (May 2022 – June 2022)
 - Demolition of Existing Structures – 2 weeks (May 2022)
 - Underground Work – 1 Month (June 2022)
 - PV System Installation – 4 months (July 2022 – October 2022)
 - Substation & Switchyard – 4 months (July 2022 – October 2022)
 - Energy Storage System – 1 month (November 2022)
 - Gen-Tie Line – 3 weeks (November 2022)
 - Testing, Commissioning, Cleanup – 1 month (December 2022)
- Decommissioning
 - Perimeter Fence Removal – 1 month (January 2053)
 - PV System Removal – 5 months (February 2053 – June 2053)
 - Substation & Switchyard demolition – 5 months (June 2053 – November 2053)
 - Energy Storage System Removal – 1 month (June 2053– July 2053)
 - Site Cleanup and Restoration – 1.5 months (July 2053 – August 2053)

Estimated average workers and the construction equipment mix used for estimating the construction emissions of the project is based on information provided by the project applicant and is shown in Table 1, Construction Scenario Assumptions. For this analysis, it was generally assumed that heavy construction equipment would operate 5 days a week (22 days per month) during project construction. Trip distances utilized in the analysis are based potential supply locations such as the city of Sacramento or Stockton. However, a 75-mile one-way trip distance was assumed to Vallejo for offsite disposal. As such, emissions from haul trucks were apportioned to each respective air district. Additionally, it was assumed that worker vehicles would travel on average approximately half a mile on unpaved roads over the course of construction to account for travel to laydown locations.

¹ The analysis assumes a construction start date of May 2022, which represents the earliest date construction would initiate (although unlikely). Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

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Table 1 Construction Scenario Assumptions

Construction Phase	One-way Trips			Equipment	Quantity	Hours Per Day
	Daily Workers	Daily Vendor Trucks	Total Haul Trucks			
Construction						
Perimeter Fence Installation	40	16	16	Skid Loaders	3	8
				Off-Highway Trucks (Pickup Trucks)	2	8
				Rough Terrain Forklifts	1	8
Site Preparation	50	16	2	Graders	2	8
				Bulldozer	1	8
				Roller	2	8
				Tractors/Loaders/Backhoes	1	8
Demolition	16	0	14	Rubber Tired Dozers	1	8
				Tractors/Loaders/Backhoes	2	8
Underground Work (Trenching)	50	2	2	Excavator	1	8
				Roller	1	8
				Plate Compactor	1	8
				Rough Terrain Forklift	1	8
PV System Installation	200	40	26	Crane	1	8
				Rough Terrain Forklifts	6	8
				Off-Highway Trucks (ATVs)	10	8
				Other Construction Equipment (Pile Driver)	4	8
				Off-Highway Trucks (Pickup Trucks)	4	8
Substation/Switchyard	100	40	20	Aerial Lifts	2	8
				Cranes	1	8
				Excavators	1	8
				Off-Highway Trucks (Boom Truck)	1	8
				Other Construction Equipment	3	8
				Rough Terrain Forklifts	4	8
				Tractors/Loaders/Backhoes	2	8
Energy Storage System	16	2	2	Crane	1	8

Table 1 Construction Scenario Assumptions

Construction Phase	One-way Trips			Equipment	Quantity	Hours Per Day
	Daily Workers	Daily Vendor Trucks	Total Haul Trucks			
				Graders	1	8
				Rough Terrain Forklift	4	8
Gen-Tie Construction	16	2	2	Bore/Drill Rigs	1	8
				Cranes	1	8
				Off-Highway Trucks (Boom Trucks)	2	8
Testing, Commissioning, Site Clean Up	26	2	8	Off-Highway Trucks (Pickup Trucks)	4	8
				Graders	1	8
				Skid Steer Loaders	1	8
Decommissioning						
Perimeter Fence Removal	50	16	2	Skid Loaders	3	8
				Off-Highway Trucks (Pickup Trucks)	2	8
				Rough Terrain Forklifts	1	8
PV System Removal	100	16	26	Crane	1	8
				Rough Terrain Forklifts	6	8
				Other Construction Equipment	4	8
				Off-Highway Trucks (ATVs)	10	8
				Off-Highway Trucks (Pickup Trucks)	4	8
Substation & Switchyard demolition	26	2	20	Aerial Lifts	2	8
				Cranes	1	8
				Excavators	1	8
				Off-Highway Trucks (Boom Truck)	1	8
				Other Construction Equipment	3	8
				Plate Compactors	2	8
				Tractor/Loader/Backhoe	2	8
				Rough Terrain Forklifts	6	8
Energy Storage System Removal	16	2	2	Crane	1	8
				Graders	1	8
				Rough Terrain Forklift	4	8

Table 1 Construction Scenario Assumptions

Construction Phase	One-way Trips			Equipment	Quantity	Hours Per Day
	Daily Workers	Daily Vendor Trucks	Total Haul Trucks			
Site Cleanup and Restoration	26	2	2	Off-Highway Trucks (Pickup Trucks)	4	8
				Graders	1	8
				Skid Steer Loaders	1	8

Notes: See Attachment A.

The CalEEMod Version 2020.4.0 and OFFROAD were used to estimate emissions from construction of the project. Construction and in turn decommissioning emissions can vary substantially from day to day, depending on the level of activity; the specific type of operation; and, for particulate matter, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated.

Proposed construction and decommissioning activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, minimal soil disturbance, and VOC off-gassing from application of asphalt and paint) and off-site sources (i.e., on-road vendor trucks and worker vehicle trips). Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM₁₀, and PM_{2.5}. PM₁₀ and PM_{2.5} emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The project would be required to comply with the SMAQMD Rule 403 to control dust emissions generated during any dust-generating activities. Standard construction practices and best available control technologies (BACT) would be employed to reduce fugitive dust emissions, including limiting vehicle speeds on unpaved roads to 15 miles per hour and watering of the active dust areas two times per day, with additional watering depending on weather conditions. The project would involve application of architectural coating (e.g., paint and other finishes) for painting the project. The contractor is required to procure architectural coatings from a supplier that complies with the requirements of the SMAQMD Rule 442 (Architectural Coatings).

Supply, conveyance, treatment, and distribution of water for the project requires the use of electricity, which would result in associated indirect GHG emissions. Water use during construction is anticipated to be approximately 96-acre feet. To calculate GHG emissions associated with construction water use, CalEEMod’s outdoor water use module was utilized.

3.2 Operational Assumptions

Area Sources

CalEEMod emission factors were used to estimate operational emissions from area sources, which include architectural coatings. VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building maintenance. The VOC evaporative emissions from application of nonresidential surface coatings were calculated based on the VOC emission factor, the building square footage,

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the assumed fraction of surface area, and the reapplication rate. The VOC emission factor is based on the VOC content of the surface coatings. Based on the type of structure for the energy storage system and ancillary systems, it is assumed that the surface area for painting equals two times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2016).

During operation and maintenance, one of the sources of GHG emissions would be fugitive emissions from equipment containing SF₆ gas installed at the proposed on-site substations. SF₆ has a GWP of 23,900 using CO₂ at a reference value of 1 (UNFCCC 2014). Based on information provided by the project applicant, it is anticipated that the project will require 68 lbs. of SF₆ gas. The proposed project’s circuit breakers would have a maximum annual leak rate of 1%, based on compliance with CARB regulations (CARB 2011). The project will be required to report annual SF₆ gas emission, whether normal or accidental, to the California Air Resource Board under Title 17, Sections 95350 through 95359 of the California Code of Regulations.

Energy Sources

Energy sources include emissions associated with project electricity usage and on-site power generation. Electricity use would contribute indirectly to criteria air pollutant emissions; SB 100 requires the regulated utilities to achieve 100 percent of electricity generation from renewable energy sources by 2045. The project will assist in achieving the Renewable Portfolio Standard by contributing solar generated electricity to the SMUD system.

The estimation of operational GHG emissions for the proposed project from electricity demand of the energy storage system, SCADA system, security lighting and other ancillary systems was based on information provided by the project applicant. The project is anticipated to require approximately 508 megawatt-hours per year. CalEEMod default energy intensity factors (CO₂, CH₄, and N₂O mass emissions per kilowatt-hour) for Sacramento Municipal Utility District (SMUD) are based on the value for SMUD’s energy mix in 2019 (the latest year provided in CalEEMod).

Mobile Sources

Mobile sources for the project would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the project site. Motor vehicles may be fueled with gasoline, diesel, or alternative fuels. As discussed in Section One, Project Description, the project would be operated remotely by a solar operations and maintenance company. To provide a conservative estimate of emissions, the CalEEMod default trip assumptions for unrefrigerated warehouse were adjusted to account for the commutes and performance of regular inspection and maintenance activities of up to 10 trips per day.

Solid Waste

The project would generate solid waste, and therefore, result in CO_{2e} emissions associated with landfill off-gassing. To provide a conservative estimate of emissions CalEEMod default values for solid waste generation for warehouse land uses were used to estimate GHG emissions associated with solid waste for the proposed project. Solid waste would be generated through maintenance activities when equipment needs to be replaced or recycled.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the project requires the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the proposed project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. As previously discussed in Section 1, Project Description, the proposed would utilize on-site wells for supplying water during operation of the project. The project applicant provided water consumption estimates for water use, and associated electricity consumption from water use and wastewater generation and the resultant emissions were estimated using CalEEMod, which includes assumptions for energy demand for necessary equipment for water pumping.

4 Emissions Calculations

4.1 Construction and Decommissioning Calculations

4.1.1 Construction and Decommissioning Criteria Pollutant Emissions

As previously described in Section 3.1, Project Construction and Decommissioning Assumptions, it is assumed that construction of the project would commence in May 2022 and would last approximately 8 months, ending in December 2022. Decommissioning is anticipated to occur 30 years after the proposed project is complete. Table 2 presents the estimated maximum daily emissions generated during construction and decommissioning of the project. Details of the emission calculations are provided in Attachment A.

Table 2 Estimated Maximum Daily Construction and Decommissioning Criteria Air Pollutant Emissions – SMAQMD

Year	VOC	NO _x	CO	SO _x	PM ₁₀ ¹	PM _{2.5} ¹
	Pounds per day					
2022 (construction)	46.00	126.44	487.84	0.40	80.80	14.71
2053 (decommissioning)	21.94	33.29	295.65	0.18	28.18	4.51
<i>SMAQMD Threshold</i>	NA	85	NA	NA	80	82
<i>Threshold Exceeded?</i>	-	Yes	-	-	Yes	No

Source: SMAQMD 2020.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

¹PM₁₀ and PM_{2.5} emissions estimates include BACT implementation.

See Attachment A for complete results.

As shown in Table 2, the project’s construction and decommissioning emissions would not exceed the SMAQMD’s daily thresholds for PM_{2.5}. However, proposed project’s construction emissions would exceed the SMAQMD’s daily thresholds for PM₁₀ and NO_x. Therefore, the proposed project would cause a potentially significant impact during construction activities. Therefore **MM-AQ-1** is proposed to reduce criteria air pollutant emissions from construction activities.

MM-AQ-1: To reduce the potential for criteria air pollutants, specifically NO_x and (PM₁₀), because of construction of the project, the applicant shall:

Prior to the start of construction activities, the project applicant, or its designee, shall ensure that all 50 horsepower or greater diesel-powered equipment are powered with California Air Resources Board (CARB)-certified Tier 4 Final engines, except where the project applicant establishes to the satisfaction of the County that Tier 4 equipment is not available.

An exemption from these requirements may be granted by the County if the County documents that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment. Before an exemption may be considered by the County, the applicant shall be required to demonstrate that two construction fleet owners/operators in Sacramento County were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within Sacramento County.

Implementation of **MM-AQ-1** would reduce project construction-generated NO_x and PM₁₀ emissions. The emissions estimates after incorporation of **MM-AQ-1** are presented in Table 3.

Table 3 Estimated Maximum Daily Construction Criteria Air Pollutant Emissions Mitigated – SMAQMD

Year	VOC	NO _x	CO	SO _x	PM ₁₀ ¹	PM _{2.5} ¹
	Pounds per day					
2022 (construction)	42.07	73.92	502.74	0.40	78.44	12.56
<i>SMAQMD Threshold</i>	NA	85	NA	NA	80	82
<i>Threshold Exceeded?</i>	—	No	—	—	No	No

Source: SMAQMD 2020.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

¹ PM₁₀ and PM_{2.5} emissions estimates include BACT implementation.

See Attachment A for complete results.

As shown in Table 3, the project’s construction emissions would not exceed the SMAQMD’s daily thresholds after accounting for **MM-AQ-1** and impacts would be less than significant with mitigation.

Table 4 presents the estimated maximum annual construction and decommissioning emissions generated during construction of the project. Details of the emission calculations are provided in Attachment A.

Table 4 Estimated Maximum Annual Construction and Decommissioning Criteria Air Pollutant Emissions – SMAQMD

Year	VOC	NO _x	CO	SO _x	PM ₁₀ ¹	PM _{2.5} ¹
	Tons per Year					
2022 (construction)	2.11	6.69	21.95	0.02	3.75	0.74
2053 (decommissioning)	0.98	1.63	13.81	0.01	1.58	0.25
<i>SMAQMD Threshold</i>	NA	NA	NA	NA	14.6	15
<i>Threshold Exceed</i>	-	-	-	-	No	No

Source: SMAQMD 2020.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

¹PM₁₀ and PM_{2.5} emissions estimates include BACT implementation.

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See Attachment A for complete results.

As shown in Table 4, the project’s construction and decommissioning emissions would not exceed the SMAQMD’s annual thresholds for PM₁₀ and PM_{2.5}. Therefore, impacts related to annual criteria air pollutant emissions would be less than significant.

Table 5 presents the estimated maximum daily emissions generated during construction of the project within Yolo County. Details of the emission calculations are provided in Attachment A.

Table 5 Estimated Maximum Construction Criteria Air Pollutant Emissions – YSAQMD

Year	VOC	NO _x	PM ₁₀ ¹
	Tons per year		Pounds per day
2022 (construction)	0.00	0.01	0.79
<i>YSAQMD Threshold</i>	10	10	80
<i>Threshold Exceeded?</i>	No	No	No

Source: YSAQMD 2020.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; YSAQMD = Yolo-Solano Air Quality Management District.

¹PM₁₀ and PM_{2.5} emissions estimates include BACT implementation.

See Attachment A for complete results.

As shown in Table 5, the project’s construction emissions would not exceed the YSAQMD’s thresholds. Impacts would be considered less than significant. Table 6 provides the mobile source emissions during construction within the BAAQMD jurisdiction.

Table 6 Estimated Maximum Daily Construction Criteria Air Pollutant Emissions – BAAQMD

Year	VOC	NO _x	CO	SO _x	PM ₁₀ ¹	PM _{2.5} ¹
	Pounds per day					
2022 (construction)	0.01	0.44	0.08	0.00	0.76	0.09
<i>BAAQMD Threshold</i>	54	54	NA	NA	82	54
<i>Threshold Exceeded?</i>	No	No	NA	NA	No	No

Source: SMAQMD 2020.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; BAAQMD = Bay Area Air Quality Management District.

¹Exhaust emissions only.

See Attachment A for complete results.

As shown in Table 6, the project’s construction emissions would not exceed the BAAQMD’s daily thresholds. Impacts would be considered less than significant.

4.1.2 Construction and Decommissioning GHG Emissions

Table 7 presents annual construction and decommissioning GHG emissions for the project in 2022 and 2053 from on-site and off-site emission sources.

Table 7 Estimated Annual Construction and Decommissioning Greenhouse Gas Emissions – SMAQMD

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e ¹
	Metric Tons per Year			
2022 (Construction)	1,915.94	0.25	0.09	1,949.51
2053 (Decommissioning)	982.80	0.02	0.02	988.51
SMAQMD Threshold				1,100
Threshold Exceeded				Yes

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂E = carbon dioxide equivalent; N₂O = nitrous oxide

See Attachment A for complete results.

¹Includes Indirect GHG emissions associated with water use during construction (17.78 CO₂e)

As shown in Table 7, the estimate total GHG emissions during construction would be approximately 1,950 MT CO₂e in 2022, over the eight-month construction period. The estimate of total GHG emissions from decommission of the proposed project would be approximately 989 MT CO₂e in 2053. Construction activities associated with the project would exceed the SMAQMD threshold of 1,100 MT CO₂e per year. Therefore, impacts related to annual GHG construction emissions would be potentially significant. To reduce GHG emissions from construction the following GHG emissions reductions are to be implemented per the SMAQMD guidance (SMAQMD 2016).

- **MM-GHG-1:** Improve fuel efficiency from construction equipment
 - Minimize idling time to no more than 3 minutes
 - Maintain all construction equipment in proper working condition according to manufacturer’s specifications. The equipment must be checked by a certified mechanic and determined to be running proper condition before it is operated.
- **MM-GHG-2:** Use alternative fuel for generators at construction sites.
- **MM-GHG-3:** Encourage and provide carpools and or shuttle vans for worker commutes.
- **MM-GHG-4:** Develop a plan to efficiently use water for adequate dust control.
- **MM-GHG-5:** Offset construction emissions with GHG emissions reduction associated with project operation.

Regarding MM-GHG-5, CEQA guidelines section 15126.4 state that a project can mitigate GHG emissions with “emission reductions resulting from implementation of project features or project design” (14 CCR 15064.4[b]). As discussed in section 4.2.3 GHG Benefits Calculation, the proposed project would result in an estimated net reduction of 21,190 MT CO₂e in the first year of operation. Thus the 850 MT CO₂e exceedance caused during construction of the proposed project would be completely offset and mitigated to less than significant within the first year of project operation and impacts resulting from construction would be less than significant after mitigation.

Table 8 presents annual construction GHG emissions for the project in 2022 from off-site emission sources within YSAQMD.

Table 8 Estimated Annual Construction Greenhouse Gas Emissions – YSAQMD

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
2022 (Construction)	4.94	0.00	0.00	5.18
YSAQMD Threshold				NA
Threshold Exceeded				NA

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂E = carbon dioxide equivalent; N₂O = nitrous oxide
See Attachment A for complete results.

As shown in Table 8, the estimate total GHG emissions during construction would be approximately 5 MT CO₂e in 2022, over the eight-month construction period. There is no construction-only GHG significance threshold in the YSAQMD jurisdiction. However, as discussed above, the project would offset more GHG emissions in the first year of operation than during the construction period. Impacts would be less than significant. Table 9 presents annual construction GHG emissions for the project in 2022 from off-site emission sources within the BAAQMD.

Table 9 Estimated Annual Construction Greenhouse Gas Emissions – BAAQMD

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
2022 (Construction)	3.10	0.00	0.00	3.25
BAAQMD Threshold				NA
Threshold Exceeded				NA

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂E = carbon dioxide equivalent; N₂O = nitrous oxide
See Attachment A for complete results.

As shown in Table 9, the estimate total GHG emissions during construction would be approximately 3 MT CO₂e in 2022, over the eight-month construction period. There is no construction-only GHG significance threshold in the BAAQMD jurisdiction. However, as discussed above, the project would offset more GHG emissions in the first year of operation than during the construction period. Impacts would be less than significant.

4.2 Operational Calculations

4.2.1 Operational Criteria Pollutant Emissions

Operation of the project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from area and mobile sources, including vehicle trips from employee commutes and maintenance vehicles. Table 10 presents the maximum daily source emissions associated with operation (year 2023) of the project. Details of the emissions calculations are provided in Attachment A.

Table 10 Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Area	0.12	0.00	<0.01	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.07	0.22	<0.01	0.08	0.02
Total Daily Emissions	0.13	0.07	0.22	<0.01	0.08	0.02
SMAQMD Thresholds	65	65	NA	NA	80	82
Thresholds Exceeded	No	No	-	-	No	No

Source: SMAQMD 2020.

Notes: PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compounds
See Attachment A for complete results.

As shown in Table 10, the project’s operational emissions would not exceed the SMAQMD’s daily thresholds for VOCs, NO_x, PM₁₀ and PM_{2.5}. Therefore, impacts related to operational daily criteria air pollutant emissions would be less than significant.

Table 11 presents the maximum annual source emissions associated with operation (year 2023) of the project. Details of the emissions calculations are provided in Attachment A.

Table 11 Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Tons per Year					
Area	0.02	0.00	<0.01	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.01	0.05	<0.01	0.01	<0.01
Total Annual Emissions	0.03	0.01	0.05	<0.01	0.01	<0.01
SMAQMD Threshold	NA	NA	NA	NA	14.6	15
Threshold Exceeded	-	-	-	-	No	No

Source: SMAQMD 2020.

Notes: PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compounds
See Attachment A for complete results.

As shown in Table 11, the project’s operational emissions would not exceed the SMAQMD’s Annual thresholds for PM₁₀ and PM_{2.5}. Therefore, impacts related to operational annual criteria air pollutant emissions would be less than significant.

4.2.2 Operational GHG Emissions

Operation of the project would generate GHG emissions through motor vehicle trips to and from the project site; energy use (electricity consumed by the project); solid waste disposal; and generation of electricity associated with

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water supply, treatment, and distribution and wastewater treatment. The estimated operational (year 2023) project generated GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, and water usage and wastewater generation are shown in Table 12.

Table 12 Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
Area	<0.01	0.00	0.00	7.37 ¹
Energy	82.49	<0.01	<0.01	82.95
Mobile	10.68	<0.01	<0.01	10.86
Waste	0.95	0.06	0.00	2.36
Water	0.37	<0.01	0.00	0.37
Total	99.03	0.06	<0.01	103.91
SMAQMD Threshold				1,100
Threshold Exceeded				No

Source: SMAQMD 2020.

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂e = carbon dioxide equivalent; N₂O = nitrous oxide

¹ Includes emissions from SF₆ (68 pounds of SF₆ assuming a 1% leak rate = 7.37 MT CO₂e per year.)

See Attachment A for complete results.

As shown in Table 12, estimated annual project generated GHG emissions would be approximately 104 MT CO₂e per year because of project operation. The project would not exceed the SMAQMD’s 1,100 CO₂e and impacts related to GHGs would be less than significant.

4.2.3 GHG Benefit Calculation

The project is anticipated to produce 130,000 MWh per year. The latest published GHG emission factor for SMUD is 0.163 MT CO₂e/MWh (CAPCOA 2021). Thus, the proposed project would provide a potential reduction of up to 21,190 MT CO₂e per year if the renewable electricity generated by the project were to be used instead of electricity generated by SMUD’s current sources.² Assuming a lifetime of 30 years, that would result in a potential offset of up to 635,700 MT CO₂e. However, assuming that SMUD achieves the goal of SB 100 to reach 100% renewable energy content by 2045, the project would provide a potential offset of up to 19,459 MT CO₂e in the first year of operation. Assuming that the renewable content of SMUD’s power supplied to the grid would increase linearly from 2021 through 2045 to 100%, the project would result in a total potential offset of up to 223,780 MT CO₂e. Therefore construction-related GHG emissions would be off-set within the first year of project operation.

4.2.4 GHG Reduction Plan Consistency

The County of Sacramento released a Final Draft Communitywide Climate Action Plan (CAP) for public review on February 17th, 2022 (County of Sacramento 2022). The CAP details specific measures that will be implemented in

² 130,000 MWh per year*0.163 MT CO₂e/Mwh (SMUD GHG emissions factor) = 21,190 MT CO₂e per year

Sacramento County by 2030 to reduce GHG emissions from communitywide activities and government operations. The CAP is intended to be a qualified CAP for the reduction of GHG emissions in accordance with Section 15183.5 of the CEQA guidelines. Once adopted, the County may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project complies with the requirements in the CAP. As the CAP has not been officially adopted, the following consistency analysis is provided for disclosure purposes. The County's Draft CAP outlines five GHG emission reduction strategies. The proposed project's compliance with the reductions strategies is presented below.

1. **Clean Energy.** The proposed project would generate electricity from renewable solar energy production and would provide the County with locally sourced renewable energy and assist the County and SMUD in meeting applicable renewable energy production targets, complying with applicable state GHG emission reduction standards, and assisting SMUD in transitioning all electricity delivered to customers in Sacramento County to GHG-free sources by 2030.
2. **Low and Zero Emission Vehicles and Equipment.** The proposed project would provide clean electricity from renewable solar energy production for use in zero emission electric vehicles and equipment.
3. **Green Buildings.** While not directly applicable to the proposed project because it is an industrial scale renewable solar project. The proposed project would support the reduction of GHG emissions in residential and commercial buildings by providing electricity from renewable solar energy production.
4. **Natural and Working Lands.** The proposed project would not prevent or inhibit the County from implementing habitat preservation, urban forest expansion and connecting open space.
5. **Reducing Driving and Alternative Transportation.** The proposed project would generate minimal vehicle trips during operation and would provide clean electricity for the use in zero emission passenger vehicles and buses.

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Attachment A

CalEEMod Emissions Outputs

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Trips and VMT - Construction trip information is based on data provided by the project applicant.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

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tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00

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tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	16.00
tbITripsAndVMT	HaulingTripNumber	0.00	14.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	26.00
tbITripsAndVMT	HaulingTripNumber	0.00	20.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	8.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	40.00
tbITripsAndVMT	WorkerTripNumber	8.00	16.00
tbITripsAndVMT	WorkerTripNumber	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	200.00
tbITripsAndVMT	WorkerTripNumber	2.00	100.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	2.00	16.00
tbITripsAndVMT	WorkerTripNumber	15.00	26.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	PB_TP	3.00	0.00
tbIVehicleTrips	PR_TP	92.00	100.00
tbIVehicleTrips	ST_TR	1.74	2.00
tbIVehicleTrips	SU_TR	1.74	2.00
tbIVehicleTrips	WD_TR	1.74	2.00

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tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

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					
2022	0.5821	5.5761	6.1578	0.0188	10.5884	0.1906	10.7789	1.2414	0.1759	1.4173	0.0000	1,725.5665	1,725.5665	0.2519	0.0915	1,759.1446
Maximum	0.5821	5.5761	6.1578	0.0188	10.5884	0.1906	10.7789	1.2414	0.1759	1.4173	0.0000	1,725.5665	1,725.5665	0.2519	0.0915	1,759.1446

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					
2022	0.5821	5.5761	6.1578	0.0188	3.4887	0.1906	3.6793	0.5019	0.1759	0.6778	0.0000	1,725.5657	1,725.5657	0.2519	0.0915	1,759.1438
Maximum	0.5821	5.5761	6.1578	0.0188	3.4887	0.1906	3.6793	0.5019	0.1759	0.6778	0.0000	1,725.5657	1,725.5657	0.2519	0.0915	1,759.1438

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	67.05	0.00	65.87	59.57	0.00	52.18	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)
4	4-20-2022	7-19-2022	1.6810	1.6810
5	7-20-2022	9-30-2022	2.8436	2.8436
		Highest	2.8436	2.8436

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	

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4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	2	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29

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Underground Work (Utilities)	Excavators	1	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	1	8.00	8	0.43
Underground Work (Utilities)	Rollers	1	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	1	8.00	100	0.40
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	4	8.00	150	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	6	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	2	8.00	63	0.31
Substation & Switchyard	Cranes	1	8.00	231	0.29
Substation & Switchyard	Excavators	1	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20
Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	1	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	3	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	4	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	1	8.00	221	0.50
Gen-Tie Construction	Cranes	1	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	2	8.00	125	0.38
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74

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Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	1	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	4	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	1	8.00	65	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	6	50.00	16.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	6	40.00	16.00	16.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Demolition	3	16.00	0.00	14.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	4	50.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
System Installation	15	200.00	40.00	26.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Substation & Switchyard	14	100.00	40.00	20.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	4	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	6	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Clean Up	6	26.00	2.00	8.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 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					0.1561	0.0000	0.1561	0.0714	0.0000	0.0714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.5009	0.2662	6.2000e-004		0.0213	0.0213		0.0196	0.0196	0.0000	54.2862	54.2862	0.0176	0.0000	54.7252
Total	0.0444	0.5009	0.2662	6.2000e-004	0.1561	0.0213	0.1774	0.0714	0.0196	0.0910	0.0000	54.2862	54.2862	0.0176	0.0000	54.7252

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	3.8800e-003	0.1137	0.0217	4.6000e-004	0.0147	1.3000e-003	0.0160	4.2500e-003	1.2400e-003	5.4900e-003	0.0000	44.8173	44.8173	1.1600e-003	6.5300e-003	46.7910
Worker	9.9500e-003	7.9300e-003	0.1056	3.3000e-004	0.6717	1.9000e-004	0.6719	0.0732	1.8000e-004	0.0734	0.0000	30.0500	30.0500	5.1000e-004	6.9000e-004	30.2675
Total	0.0138	0.1218	0.1273	7.9000e-004	0.6864	1.4900e-003	0.6879	0.0775	1.4200e-003	0.0789	0.0000	74.9408	74.9408	1.6700e-003	7.2300e-003	77.1355

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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					
Fugitive Dust					0.0702	0.0000	0.0702	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.5009	0.2662	6.2000e-004		0.0213	0.0213		0.0196	0.0196	0.0000	54.2862	54.2862	0.0176	0.0000	54.7251
Total	0.0444	0.5009	0.2662	6.2000e-004	0.0702	0.0213	0.0916	0.0321	0.0196	0.0518	0.0000	54.2862	54.2862	0.0176	0.0000	54.7251

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	3.8800e-003	0.1137	0.0217	4.6000e-004	0.0147	1.3000e-003	0.0160	4.2500e-003	1.2400e-003	5.4900e-003	0.0000	44.8173	44.8173	1.1600e-003	6.5300e-003	46.7910
Worker	9.9500e-003	7.9300e-003	0.1056	3.3000e-004	0.2121	1.9000e-004	0.2123	0.0273	1.8000e-004	0.0275	0.0000	30.0500	30.0500	5.1000e-004	6.9000e-004	30.2675
Total	0.0138	0.1218	0.1273	7.9000e-004	0.2268	1.4900e-003	0.2283	0.0316	1.4200e-003	0.0330	0.0000	74.9408	74.9408	1.6700e-003	7.2300e-003	77.1355

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3.3 Perimeter Fence Installation - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0500e-003	0.0791	0.1305	1.9000e-004		3.3100e-003	3.3100e-003		3.0500e-003	3.0500e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1956
Total	8.0500e-003	0.0791	0.1305	1.9000e-004	0.0000	3.3100e-003	3.3100e-003	0.0000	3.0500e-003	3.0500e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1956

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	4.0000e-005	1.6700e-003	3.0000e-004	1.0000e-005	1.6000e-004	1.0000e-005	1.7000e-004	4.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5879	0.5879	2.0000e-005	9.0000e-005	0.6163
Vendor	1.8900e-003	0.0555	0.0106	2.2000e-004	7.1800e-003	6.3000e-004	7.8100e-003	2.0700e-003	6.1000e-004	2.6800e-003	0.0000	21.8621	21.8621	5.6000e-004	3.1800e-003	22.8249
Worker	3.8800e-003	3.0900e-003	0.0412	1.3000e-004	0.2621	7.0000e-005	0.2622	0.0286	7.0000e-005	0.0286	0.0000	11.7268	11.7268	2.0000e-004	2.7000e-004	11.8117
Total	5.8100e-003	0.0602	0.0521	3.6000e-004	0.2695	7.1000e-004	0.2702	0.0307	6.9000e-004	0.0314	0.0000	34.1769	34.1769	7.8000e-004	3.5400e-003	35.2529

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3.3 Perimeter Fence Installation - 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					
Fugitive Dust					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	8.0500e-003	0.0791	0.1305	1.9000e-004		3.3100e-003	3.3100e-003		3.0500e-003	3.0500e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1955
Total	8.0500e-003	0.0791	0.1305	1.9000e-004	0.0000	3.3100e-003	3.3100e-003	0.0000	3.0500e-003	3.0500e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1955

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	4.0000e-005	1.6700e-003	3.0000e-004	1.0000e-005	1.6000e-004	1.0000e-005	1.7000e-004	4.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5879	0.5879	2.0000e-005	9.0000e-005	0.6163
Vendor	1.8900e-003	0.0555	0.0106	2.2000e-004	7.1800e-003	6.3000e-004	7.8100e-003	2.0700e-003	6.1000e-004	2.6800e-003	0.0000	21.8621	21.8621	5.6000e-004	3.1800e-003	22.8249
Worker	3.8800e-003	3.0900e-003	0.0412	1.3000e-004	0.0828	7.0000e-005	0.0828	0.0107	7.0000e-005	0.0107	0.0000	11.7268	11.7268	2.0000e-004	2.7000e-004	11.8117
Total	5.8100e-003	0.0602	0.0521	3.6000e-004	0.0901	7.1000e-004	0.0908	0.0128	6.9000e-004	0.0135	0.0000	34.1769	34.1769	7.8000e-004	3.5400e-003	35.2529

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3.4 Demolition - 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	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366
Total	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366

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	3.0000e-005	1.4600e-003	2.6000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5144	0.5144	2.0000e-005	8.0000e-005	0.5393
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	7.8000e-004	6.2000e-004	8.2400e-003	3.0000e-005	0.0524	1.0000e-005	0.0524	5.7100e-003	1.0000e-005	5.7300e-003	0.0000	2.3454	2.3454	4.0000e-005	5.0000e-005	2.3623
Total	8.1000e-004	2.0800e-003	8.5000e-003	4.0000e-005	0.0526	2.0000e-005	0.0526	5.7500e-003	2.0000e-005	5.7800e-003	0.0000	2.8598	2.8598	6.0000e-005	1.3000e-004	2.9016

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3.4 Demolition - 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					
Off-Road	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366
Total	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366

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	3.0000e-005	1.4600e-003	2.6000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5144	0.5144	2.0000e-005	8.0000e-005	0.5393
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	7.8000e-004	6.2000e-004	8.2400e-003	3.0000e-005	0.0166	1.0000e-005	0.0166	2.1300e-003	1.0000e-005	2.1500e-003	0.0000	2.3454	2.3454	4.0000e-005	5.0000e-005	2.3623
Total	8.1000e-004	2.0800e-003	8.5000e-003	4.0000e-005	0.0167	2.0000e-005	0.0167	2.1700e-003	2.0000e-005	2.2000e-003	0.0000	2.8598	2.8598	6.0000e-005	1.3000e-004	2.9016

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3.5 Underground Work (Utilities) - 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	5.2100e-003	0.0523	0.0761	1.2000e-004		2.4700e-003	2.4700e-003		2.2800e-003	2.2800e-003	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624
Total	5.2100e-003	0.0523	0.0761	1.2000e-004		2.4700e-003	2.4700e-003		2.2800e-003	2.2800e-003	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.4000e-004	6.9300e-003	1.3200e-003	3.0000e-005	9.0000e-004	8.0000e-005	9.8000e-004	2.6000e-004	8.0000e-005	3.3000e-004	0.0000	2.7328	2.7328	7.0000e-005	4.0000e-004	2.8531
Worker	4.8500e-003	3.8700e-003	0.0515	1.6000e-004	0.3276	9.0000e-005	0.3277	0.0357	9.0000e-005	0.0358	0.0000	14.6585	14.6585	2.5000e-004	3.4000e-004	14.7646
Total	5.0900e-003	0.0110	0.0529	1.9000e-004	0.3286	1.7000e-004	0.3287	0.0360	1.7000e-004	0.0361	0.0000	17.4648	17.4648	3.2000e-004	7.5000e-004	17.6948

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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					
Off-Road	5.2100e-003	0.0523	0.0761	1.2000e-004		2.4700e-003	2.4700e-003		2.2800e-003	2.2800e-003	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624
Total	5.2100e-003	0.0523	0.0761	1.2000e-004		2.4700e-003	2.4700e-003		2.2800e-003	2.2800e-003	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.4000e-004	6.9300e-003	1.3200e-003	3.0000e-005	9.0000e-004	8.0000e-005	9.8000e-004	2.6000e-004	8.0000e-005	3.3000e-004	0.0000	2.7328	2.7328	7.0000e-005	4.0000e-004	2.8531
Worker	4.8500e-003	3.8700e-003	0.0515	1.6000e-004	0.1034	9.0000e-005	0.1035	0.0133	9.0000e-005	0.0134	0.0000	14.6585	14.6585	2.5000e-004	3.4000e-004	14.7646
Total	5.0900e-003	0.0110	0.0529	1.9000e-004	0.1044	1.7000e-004	0.1045	0.0136	1.7000e-004	0.0138	0.0000	17.4648	17.4648	3.2000e-004	7.5000e-004	17.6948

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	0.1530	1.5490	1.9535	3.0800e-003		0.0710	0.0710		0.0653	0.0653	0.0000	270.1365	270.1365	0.0874	0.0000	272.3207
Total	0.1530	1.5490	1.9535	3.0800e-003		0.0710	0.0710		0.0653	0.0653	0.0000	270.1365	270.1365	0.0874	0.0000	272.3207

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	6.0000e-005	2.7100e-003	4.9000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.8000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9554	0.9554	4.0000e-005	1.5000e-004	1.0015
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0844	0.0673	0.8960	2.7800e-003	5.7009	1.6200e-003	5.7025	0.6215	1.4900e-003	0.6230	0.0000	255.0582	255.0582	4.3200e-003	5.8300e-003	256.9045
Total	0.1051	0.6731	1.0117	5.2300e-003	5.7792	8.5200e-003	5.7877	0.6441	8.1000e-003	0.6522	0.0000	493.7641	493.7641	0.0105	0.0406	506.1263

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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					
Off-Road	0.1530	1.5490	1.9535	3.0800e-003		0.0710	0.0710		0.0653	0.0653	0.0000	270.1361	270.1361	0.0874	0.0000	272.3203
Total	0.1530	1.5490	1.9535	3.0800e-003		0.0710	0.0710		0.0653	0.0653	0.0000	270.1361	270.1361	0.0874	0.0000	272.3203

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	6.0000e-005	2.7100e-003	4.9000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.8000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9554	0.9554	4.0000e-005	1.5000e-004	1.0015
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0844	0.0673	0.8960	2.7800e-003	1.7999	1.6200e-003	1.8015	0.2320	1.4900e-003	0.2335	0.0000	255.0582	255.0582	4.3200e-003	5.8300e-003	256.9045
Total	0.1051	0.6731	1.0117	5.2300e-003	1.8782	8.5200e-003	1.8867	0.2546	8.1000e-003	0.2627	0.0000	493.7641	493.7641	0.0105	0.0406	506.1263

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	0.1398	1.4972	1.5700	3.4600e-003		0.0594	0.0594		0.0547	0.0547	0.0000	304.1807	304.1807	0.0984	0.0000	306.6401
Total	0.1398	1.4972	1.5700	3.4600e-003		0.0594	0.0594		0.0547	0.0547	0.0000	304.1807	304.1807	0.0984	0.0000	306.6401

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	2.0800e-003	3.7000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7349	0.7349	3.0000e-005	1.2000e-004	0.7704
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0422	0.0337	0.4480	1.3900e-003	2.8505	8.1000e-004	2.8513	0.3107	7.5000e-004	0.3115	0.0000	127.5291	127.5291	2.1600e-003	2.9200e-003	128.4522
Total	0.0629	0.6388	0.5635	3.8400e-003	2.9287	7.7100e-003	2.9364	0.3333	7.3600e-003	0.3407	0.0000	366.0145	366.0145	8.3200e-003	0.0377	377.4429

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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					
Off-Road	0.1398	1.4972	1.5700	3.4600e-003		0.0594	0.0594		0.0547	0.0547	0.0000	304.1803	304.1803	0.0984	0.0000	306.6398
Total	0.1398	1.4972	1.5700	3.4600e-003		0.0594	0.0594		0.0547	0.0547	0.0000	304.1803	304.1803	0.0984	0.0000	306.6398

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	2.0800e-003	3.7000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7349	0.7349	3.0000e-005	1.2000e-004	0.7704
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0422	0.0337	0.4480	1.3900e-003	0.8999	8.1000e-004	0.9008	0.1160	7.5000e-004	0.1167	0.0000	127.5291	127.5291	2.1600e-003	2.9200e-003	128.4522
Total	0.0629	0.6388	0.5635	3.8400e-003	0.9782	7.7100e-003	0.9859	0.1386	7.3600e-003	0.1459	0.0000	366.0145	366.0145	8.3200e-003	0.0377	377.4429

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	7.5000e-003	0.0711	0.0708	1.8000e-004		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	15.3781	15.3781	4.9700e-003	0.0000	15.5024
Total	7.5000e-003	0.0711	0.0708	1.8000e-004		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	15.3781	15.3781	4.9700e-003	0.0000	15.5024

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	1.8000e-004	5.2000e-003	9.9000e-004	2.0000e-005	6.7000e-004	6.0000e-005	7.3000e-004	1.9000e-004	6.0000e-005	2.5000e-004	0.0000	2.0496	2.0496	5.0000e-005	3.0000e-004	2.1398
Worker	1.1600e-003	9.3000e-004	0.0124	4.0000e-005	0.0786	2.0000e-005	0.0787	8.5700e-003	2.0000e-005	8.5900e-003	0.0000	3.5180	3.5180	6.0000e-005	8.0000e-005	3.5435
Total	1.3400e-003	6.3400e-003	0.0134	6.0000e-005	0.0793	8.0000e-005	0.0794	8.7700e-003	8.0000e-005	8.8500e-003	0.0000	5.6411	5.6411	1.1000e-004	3.9000e-004	5.7604

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3.8 Gen-Tie Construction - 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					
Off-Road	7.5000e-003	0.0711	0.0708	1.8000e-004		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	15.3780	15.3780	4.9700e-003	0.0000	15.5024
Total	7.5000e-003	0.0711	0.0708	1.8000e-004		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	15.3780	15.3780	4.9700e-003	0.0000	15.5024

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	1.8000e-004	5.2000e-003	9.9000e-004	2.0000e-005	6.7000e-004	6.0000e-005	7.3000e-004	1.9000e-004	6.0000e-005	2.5000e-004	0.0000	2.0496	2.0496	5.0000e-005	3.0000e-004	2.1398
Worker	1.1600e-003	9.3000e-004	0.0124	4.0000e-005	0.0248	2.0000e-005	0.0249	3.2000e-003	2.0000e-005	3.2200e-003	0.0000	3.5180	3.5180	6.0000e-005	8.0000e-005	3.5435
Total	1.3400e-003	6.3400e-003	0.0134	6.0000e-005	0.0255	8.0000e-005	0.0256	3.4000e-003	8.0000e-005	3.4800e-003	0.0000	5.6411	5.6411	1.1000e-004	3.9000e-004	5.7604

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage 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					
Off-Road	0.0130	0.1613	0.1341	2.7000e-004		5.7500e-003	5.7500e-003		5.2900e-003	5.2900e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3435
Total	0.0130	0.1613	0.1341	2.7000e-004		5.7500e-003	5.7500e-003		5.2900e-003	5.2900e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3435

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.5000e-004	7.2800e-003	1.3900e-003	3.0000e-005	9.4000e-004	8.0000e-005	1.0300e-003	2.7000e-004	8.0000e-005	3.5000e-004	0.0000	2.8694	2.8694	7.0000e-005	4.2000e-004	2.9958
Worker	1.6300e-003	1.3000e-003	0.0173	5.0000e-005	0.1101	3.0000e-005	0.1101	0.0120	3.0000e-005	0.0120	0.0000	4.9253	4.9253	8.0000e-005	1.1000e-004	4.9609
Total	1.8800e-003	8.7900e-003	0.0187	8.0000e-005	0.1111	1.1000e-004	0.1112	0.0123	1.1000e-004	0.0124	0.0000	7.8682	7.8682	1.5000e-004	5.4000e-004	8.0337

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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					
Off-Road	0.0130	0.1613	0.1341	2.7000e-004		5.7500e-003	5.7500e-003		5.2900e-003	5.2900e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3434
Total	0.0130	0.1613	0.1341	2.7000e-004		5.7500e-003	5.7500e-003		5.2900e-003	5.2900e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3434

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.5000e-004	7.2800e-003	1.3900e-003	3.0000e-005	9.4000e-004	8.0000e-005	1.0300e-003	2.7000e-004	8.0000e-005	3.5000e-004	0.0000	2.8694	2.8694	7.0000e-005	4.2000e-004	2.9958
Worker	1.6300e-003	1.3000e-003	0.0173	5.0000e-005	0.0348	3.0000e-005	0.0348	4.4800e-003	3.0000e-005	4.5100e-003	0.0000	4.9253	4.9253	8.0000e-005	1.1000e-004	4.9609
Total	1.8800e-003	8.7900e-003	0.0187	8.0000e-005	0.0357	1.1000e-004	0.0358	4.7600e-003	1.1000e-004	4.8700e-003	0.0000	7.8682	7.8682	1.5000e-004	5.4000e-004	8.0337

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	5.5700e-003	0.0711	0.0358	1.0000e-004		2.3200e-003	2.3200e-003		2.1300e-003	2.1300e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518
Total	5.5700e-003	0.0711	0.0358	1.0000e-004		2.3200e-003	2.3200e-003		2.1300e-003	2.1300e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518

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	2.0000e-005	8.3000e-004	1.5000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2940	0.2940	1.0000e-005	5.0000e-005	0.3082
Vendor	2.7000e-004	7.9700e-003	1.5200e-003	3.0000e-005	1.0300e-003	9.0000e-005	1.1200e-003	3.0000e-004	9.0000e-005	3.8000e-004	0.0000	3.1427	3.1427	8.0000e-005	4.6000e-004	3.2811
Worker	2.9000e-003	2.3100e-003	0.0308	1.0000e-004	0.1959	6.0000e-005	0.1960	0.0214	5.0000e-005	0.0214	0.0000	8.7658	8.7658	1.5000e-004	2.0000e-004	8.8293
Total	3.1900e-003	0.0111	0.0325	1.3000e-004	0.1970	1.6000e-004	0.1972	0.0217	1.5000e-004	0.0218	0.0000	12.2024	12.2024	2.4000e-004	7.1000e-004	12.4185

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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					
Off-Road	5.5700e-003	0.0711	0.0358	1.0000e-004		2.3200e-003	2.3200e-003		2.1300e-003	2.1300e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518
Total	5.5700e-003	0.0711	0.0358	1.0000e-004		2.3200e-003	2.3200e-003		2.1300e-003	2.1300e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518

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	2.0000e-005	8.3000e-004	1.5000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2940	0.2940	1.0000e-005	5.0000e-005	0.3082
Vendor	2.7000e-004	7.9700e-003	1.5200e-003	3.0000e-005	1.0300e-003	9.0000e-005	1.1200e-003	3.0000e-004	9.0000e-005	3.8000e-004	0.0000	3.1427	3.1427	8.0000e-005	4.6000e-004	3.2811
Worker	2.9000e-003	2.3100e-003	0.0308	1.0000e-004	0.0619	6.0000e-005	0.0619	7.9700e-003	5.0000e-005	8.0200e-003	0.0000	8.7658	8.7658	1.5000e-004	2.0000e-004	8.8293
Total	3.1900e-003	0.0111	0.0325	1.3000e-004	0.0630	1.6000e-004	0.0631	8.2900e-003	1.5000e-004	8.4300e-003	0.0000	12.2024	12.2024	2.4000e-004	7.1000e-004	12.4185

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Unmitigated	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3704	3.0000e-005	0.0000	0.3725
Unmitigated	0.3704	3.0000e-005	0.0000	0.3725

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9541	0.0564	0.0000	2.3636
Unmitigated	0.9541	0.0564	0.0000	2.3636

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Unmitigated with BACT Control

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2023		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	16.00
tbITripsAndVMT	HaulingTripNumber	0.00	14.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	26.00
tbITripsAndVMT	HaulingTripNumber	0.00	20.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	8.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	40.00
tbITripsAndVMT	WorkerTripNumber	8.00	16.00
tbITripsAndVMT	WorkerTripNumber	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	200.00
tbITripsAndVMT	WorkerTripNumber	2.00	100.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	2.00	16.00
tbITripsAndVMT	WorkerTripNumber	15.00	26.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	PB_TP	3.00	0.00
tbIVehicleTrips	PR_TP	92.00	100.00
tbIVehicleTrips	ST_TR	1.74	2.00
tbIVehicleTrips	SU_TR	1.74	2.00
tbIVehicleTrips	WD_TR	1.74	2.00

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2022	10.7916	98.2773	124.8669	0.3684	235.7558	3.3713	239.1271	26.0906	3.1133	29.2039	0.0000	37,291.00 10	37,291.00 10	5.1973	1.9671	38,007.14 29
Maximum	10.7916	98.2773	124.8669	0.3684	235.7558	3.3713	239.1271	26.0906	3.1133	29.2039	0.0000	37,291.00 10	37,291.00 10	5.1973	1.9671	38,007.14 29

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	lb/day										lb/day					
2022	10.7916	98.2773	124.8669	0.3684	75.8238	3.3713	79.1951	10.1232	3.1133	13.2365	0.0000	37,291.00 10	37,291.00 10	5.1973	1.9671	38,007.14 29
Maximum	10.7916	98.2773	124.8669	0.3684	75.8238	3.3713	79.1951	10.1232	3.1133	13.2365	0.0000	37,291.00 10	37,291.00 10	5.1973	1.9671	38,007.14 29

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	67.84	0.00	66.88	61.20	0.00	54.68	0.00	0.00	0.00	0.00	0.00	0.00

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	2	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	1	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	1	8.00	8	0.43
Underground Work (Utilities)	Rollers	1	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	1	8.00	100	0.40
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	4	8.00	150	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	6	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	2	8.00	63	0.31
Substation & Switchyard	Cranes	1	8.00	231	0.29
Substation & Switchyard	Excavators	1	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	1	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	3	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	4	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	1	8.00	221	0.50
Gen-Tie Construction	Cranes	1	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	2	8.00	125	0.38
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	1	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	4	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	1	8.00	65	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	6	50.00	16.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	6	40.00	16.00	16.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Demolition	3	16.00	0.00	14.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	4	50.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
System Installation	15	200.00	40.00	26.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	14	100.00	40.00	20.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	4	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	6	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	6	26.00	2.00	8.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	2.1644	24.4363	12.9841	0.0301		1.0408	1.0408		0.9576	0.9576		2,919.0398	2,919.0398	0.9441		2,942.6417
Total	2.1644	24.4363	12.9841	0.0301	7.6128	1.0408	8.6537	3.4820	0.9576	4.4396		2,919.0398	2,919.0398	0.9441		2,942.6417

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	9.5900e-003	1.8100e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9516	3.9516	1.6000e-004	6.3000e-004	4.1422
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.9181	2,409.9181	0.0622	0.3505	2,515.9341
Worker	0.5180	0.3508	6.4227	0.0176	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,774.1836	1,774.1836	0.0296	0.0346	1,785.2375
Total	0.7086	5.5688	7.4865	0.0401	39.4150	0.0727	39.4876	4.3836	0.0692	4.4528		4,188.0533	4,188.0533	0.0920	0.3858	4,305.3138

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	lb/day										lb/day					
Fugitive Dust					3.4258	0.0000	3.4258	1.5669	0.0000	1.5669			0.0000			0.0000
Off-Road	2.1644	24.4363	12.9841	0.0301		1.0408	1.0408		0.9576	0.9576	0.0000	2,919.0398	2,919.0398	0.9441		2,942.6417
Total	2.1644	24.4363	12.9841	0.0301	3.4258	1.0408	4.4666	1.5669	0.9576	2.5245	0.0000	2,919.0398	2,919.0398	0.9441		2,942.6417

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	9.5900e-003	1.8100e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9516	3.9516	1.6000e-004	6.3000e-004	4.1422
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.918 1	2,409.918 1	0.0622	0.3505	2,515.934 1
Worker	0.5180	0.3508	6.4227	0.0176	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,774.183 6	1,774.183 6	0.0296	0.0346	1,785.237 5
Total	0.7086	5.5688	7.4865	0.0401	12.7596	0.0727	12.8323	1.7224	0.0692	1.7916		4,188.053 3	4,188.053 3	0.0920	0.3858	4,305.313 8

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8048	7.9072	13.0525	0.0194		0.3315	0.3315		0.3050	0.3050		1,880.282 2	1,880.282 2	0.6081		1,895.485 2
Total	0.8048	7.9072	13.0525	0.0194	0.0000	0.3315	0.3315	0.0000	0.3050	0.3050		1,880.282 2	1,880.282 2	0.6081		1,895.485 2

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6900e-003	0.1574	0.0297	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8055	64.8055	2.6100e-003	0.0103	67.9319
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.9181	2,409.9181	0.0622	0.3505	2,515.9341
Worker	0.4144	0.2807	5.1381	0.0140	30.9402	7.4400e-003	30.9476	3.3368	6.8600e-003	3.3437		1,419.3469	1,419.3469	0.0237	0.0277	1,428.1900
Total	0.6085	5.6464	6.2299	0.0371	31.6950	0.0721	31.7671	3.5535	0.0687	3.6223		3,894.0705	3,894.0705	0.0885	0.3885	4,012.0560

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8048	7.9072	13.0525	0.0194		0.3315	0.3315		0.3050	0.3050	0.0000	1,880.2822	1,880.2822	0.6081		1,895.4852
Total	0.8048	7.9072	13.0525	0.0194	0.0000	0.3315	0.3315	0.0000	0.3050	0.3050	0.0000	1,880.2822	1,880.2822	0.6081		1,895.4852

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6900e-003	0.1574	0.0297	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8055	64.8055	2.6100e-003	0.0103	67.9319
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.9181	2,409.9181	0.0622	0.3505	2,515.9341
Worker	0.4144	0.2807	5.1381	0.0140	9.6159	7.4400e-003	9.6233	1.2078	6.8600e-003	1.2147		1,419.3469	1,419.3469	0.0237	0.0277	1,428.1900
Total	0.6085	5.6464	6.2299	0.0371	10.3707	0.0721	10.4428	1.4246	0.0687	1.4933		3,894.0705	3,894.0705	0.0885	0.3885	4,012.0560

3.4 Demolition - 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	lb/day										lb/day					
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.5133	1,429.5133	0.4623		1,441.0716
Total	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.5133	1,429.5133	0.4623		1,441.0716

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.4600e-003	0.2754	0.0520	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3000e-003	9.9900e-003		113.4096	113.4096	4.5600e-003	0.0180	118.8808
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
Worker	0.1658	0.1123	2.0553	5.6200e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1722	0.3876	2.1073	6.6600e-003	12.4042	5.3900e-003	12.4095	1.3424	5.0400e-003	1.3475		681.1483	681.1483	0.0140	0.0291	690.1568

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	lb/day										lb/day					
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716
Total	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.4600e-003	0.2754	0.0520	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3000e-003	9.9900e-003		113.4096	113.4096	4.5600e-003	0.0180	118.8808
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
Worker	0.1658	0.1123	2.0553	5.6200e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1722	0.3876	2.1073	6.6600e-003	3.8744	5.3900e-003	3.8798	0.4908	5.0400e-003	0.4959		681.1483	681.1483	0.0140	0.0291	690.1568

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Off-Road	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.6000e-004	0.0197	3.7200e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.6000e-004	7.1000e-004		8.1007	8.1007	3.3000e-004	1.2800e-003	8.4915
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.5180	0.3508	6.4227	0.0176	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,774.1836	1,774.1836	0.0296	0.0346	1,785.2375
Total	0.5422	1.0215	6.5591	0.0204	38.7696	0.0174	38.7870	4.1981	0.0163	4.2144		2,083.5241	2,083.5241	0.0377	0.0797	2,108.2208

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	lb/day										lb/day					
Off-Road	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.6000e-004	0.0197	3.7200e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.6000e-004	7.1000e-004		8.1007	8.1007	3.3000e-004	1.2800e-003	8.4915
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.5180	0.3508	6.4227	0.0176	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,774.1836	1,774.1836	0.0296	0.0346	1,785.2375
Total	0.5422	1.0215	6.5591	0.0204	12.1142	0.0174	12.1316	1.5369	0.0163	1.5532		2,083.5241	2,083.5241	0.0377	0.0797	2,108.2208

3.6 System Installation - 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	lb/day										lb/day					
Off-Road	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386
Total	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3800e-003	0.0588	0.0111	2.2000e-004	5.9900e-003	5.1000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2089	24.2089	9.7000e-004	3.8400e-003	25.3769
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	2.0719	1.4032	25.6907	0.0702	154.7008	0.0372	154.7381	16.6840	0.0343	16.7182		7,096.7344	7,096.7344	0.1185	0.1384	7,140.9501
Total	2.5494	14.4831	28.3569	0.1266	156.5538	0.1959	156.7497	17.2165	0.1861	17.4026		13,145.7387	13,145.7387	0.2750	1.0186	13,456.1622

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	lb/day										lb/day					
Off-Road	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386
Total	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3800e-003	0.0588	0.0111	2.2000e-004	5.9900e-003	5.1000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2089	24.2089	9.7000e-004	3.8400e-003	25.3769
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	2.0719	1.4032	25.6907	0.0702	48.0795	0.0372	48.1167	6.0390	0.0343	6.0733		7,096.7344	7,096.7344	0.1185	0.1384	7,140.9501
Total	2.5494	14.4831	28.3569	0.1266	49.9325	0.1959	50.1284	6.5716	0.1861	6.7577		13,145.7387	13,145.7387	0.2750	1.0186	13,456.1622

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Off-Road	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112
Total	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0600e-003	0.0452	8.5500e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6223	18.6223	7.5000e-004	2.9500e-003	19.5207
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	1.0359	0.7016	12.8453	0.0351	77.3504	0.0186	77.3690	8.3420	0.0171	8.3591		3,548.3672	3,548.3672	0.0592	0.0692	3,570.4751
Total	1.5131	13.7679	15.5090	0.0915	79.2020	0.1772	79.3792	8.8741	0.1689	9.0430		9,591.7848	9,591.7848	0.2155	0.9485	9,879.8309

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	lb/day										lb/day					
Off-Road	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112
Total	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0600e-003	0.0452	8.5500e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6223	18.6223	7.5000e-004	2.9500e-003	19.5207
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	1.0359	0.7016	12.8453	0.0351	24.0397	0.0186	24.0584	3.0195	0.0171	3.0367		3,548.3672	3,548.3672	0.0592	0.0692	3,570.4751
Total	1.5131	13.7679	15.5090	0.0915	25.8913	0.1772	26.0685	3.5517	0.1689	3.7205		9,591.7848	9,591.7848	0.2155	0.9485	9,879.8309

3.8 Gen-Tie 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	lb/day										lb/day					
Off-Road	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609
Total	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.1000e-004	0.0262	4.9600e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8009	10.8009	4.3000e-004	1.7100e-003	11.3220
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1902	0.7895	2.1930	8.5300e-003	12.4711	0.0111	12.4822	1.3620	0.0105	1.3725		879.7794	879.7794	0.0177	0.0566	897.0898

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	lb/day										lb/day					
Off-Road	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609
Total	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.1000e-004	0.0262	4.9600e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8009	10.8009	4.3000e-004	1.7100e-003	11.3220
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1902	0.7895	2.1930	8.5300e-003	3.9414	0.0111	3.9525	0.5104	0.0105	0.5209		879.7794	879.7794	0.0177	0.0566	897.0898

3.9 Energy Storage 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	lb/day										lb/day					
Off-Road	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250
Total	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.4000e-004	0.0187	3.5400e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7149	7.7149	3.1000e-004	1.2200e-003	8.0871
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1900	0.7820	2.1915	8.5000e-003	12.4703	0.0111	12.4814	1.3618	0.0105	1.3723		876.6935	876.6935	0.0176	0.0561	893.8549

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	lb/day										lb/day					
Off-Road	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250
Total	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.4000e-004	0.0187	3.5400e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7149	7.7149	3.1000e-004	1.2200e-003	8.0871
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1900	0.7820	2.1915	8.5000e-003	3.9406	0.0111	3.9517	0.5102	0.0105	0.5207		876.6935	876.6935	0.0176	0.0561	893.8549

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Off-Road	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755
Total	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.6000e-003	0.0684	0.0129	2.6000e-004	6.9800e-003	6.0000e-004	7.5700e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1763	28.1763	1.1300e-003	4.4700e-003	29.5356
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.2694	0.1824	3.3398	9.1300e-003	20.1111	4.8400e-003	20.1160	2.1689	4.4600e-003	2.1734		922.5755	922.5755	0.0154	0.0180	928.3235
Total	0.2948	0.9019	3.4855	0.0122	20.2104	0.0134	20.2238	2.1974	0.0126	2.2100		1,251.9915	1,251.9915	0.0243	0.0663	1,272.3509

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	lb/day										lb/day					
Off-Road	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856	0.0000	841.6702	841.6702	0.2722		848.4755
Total	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856	0.0000	841.6702	841.6702	0.2722		848.4755

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.6000e-003	0.0684	0.0129	2.6000e-004	6.9800e-003	6.0000e-004	7.5700e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1763	28.1763	1.1300e-003	4.4700e-003	29.5356
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.2694	0.1824	3.3398	9.1300e-003	6.2503	4.8400e-003	6.2552	0.7851	4.4600e-003	0.7895		922.5755	922.5755	0.0154	0.0180	928.3235
Total	0.2948	0.9019	3.4855	0.0122	6.3497	0.0134	6.3630	0.8135	0.0126	0.8261		1,251.9915	1,251.9915	0.0243	0.0663	1,272.3509

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Unmitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughouse Solar - Unmitigated with BACT Control

Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripLength	20.00	23.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	16.00
tbITripsAndVMT	HaulingTripNumber	0.00	14.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	26.00
tbITripsAndVMT	HaulingTripNumber	0.00	20.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	8.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	40.00
tbITripsAndVMT	WorkerTripNumber	8.00	16.00
tbITripsAndVMT	WorkerTripNumber	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	200.00
tbITripsAndVMT	WorkerTripNumber	2.00	100.00
tbITripsAndVMT	WorkerTripNumber	10.00	16.00
tbITripsAndVMT	WorkerTripNumber	2.00	16.00
tbITripsAndVMT	WorkerTripNumber	15.00	26.00
tbIVehicleTrips	DV_TP	5.00	0.00
tbIVehicleTrips	PB_TP	3.00	0.00
tbIVehicleTrips	PR_TP	92.00	100.00
tbIVehicleTrips	ST_TR	1.74	2.00
tbIVehicleTrips	SU_TR	1.74	2.00
tbIVehicleTrips	WD_TR	1.74	2.00

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2022	10.9248	101.0132	116.1174	0.3565	235.7558	3.3716	239.1274	26.0906	3.1136	29.2042	0.0000	36,087.90 80	36,087.90 80	5.1825	2.0014	36,813.90 04
Maximum	10.9248	101.0132	116.1174	0.3565	235.7558	3.3716	239.1274	26.0906	3.1136	29.2042	0.0000	36,087.90 80	36,087.90 80	5.1825	2.0014	36,813.90 04

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	lb/day										lb/day					
2022	10.9248	101.0132	116.1174	0.3565	75.8238	3.3716	79.1954	10.1232	3.1136	13.2368	0.0000	36,087.90 80	36,087.90 80	5.1825	2.0014	36,813.90 04
Maximum	10.9248	101.0132	116.1174	0.3565	75.8238	3.3716	79.1954	10.1232	3.1136	13.2368	0.0000	36,087.90 80	36,087.90 80	5.1825	2.0014	36,813.90 04

Sloughhouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	67.84	0.00	66.88	61.20	0.00	54.68	0.00	0.00	0.00	0.00	0.00	0.00

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	2	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	1	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	1	8.00	8	0.43
Underground Work (Utilities)	Rollers	1	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	1	8.00	100	0.40
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	4	8.00	150	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	6	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	2	8.00	63	0.31
Substation & Switchyard	Cranes	1	8.00	231	0.29
Substation & Switchyard	Excavators	1	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	1	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	3	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	4	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	1	8.00	221	0.50
Gen-Tie Construction	Cranes	1	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	2	8.00	125	0.38
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	1	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	4	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	1	8.00	65	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	6	50.00	16.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	6	40.00	16.00	16.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Demolition	3	16.00	0.00	14.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	4	50.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
System Installation	15	200.00	40.00	26.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	14	100.00	40.00	20.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	4	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	6	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	6	26.00	2.00	8.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	2.1644	24.4363	12.9841	0.0301		1.0408	1.0408		0.9576	0.9576		2,919.0398	2,919.0398	0.9441		2,942.6417
Total	2.1644	24.4363	12.9841	0.0301	7.6128	1.0408	8.6537	3.4820	0.9576	4.4396		2,919.0398	2,919.0398	0.9441		2,942.6417

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	0.0104	1.8500e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9521	3.9521	1.6000e-004	6.3000e-004	4.1427
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.5392	0.4327	4.9689	0.0156	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,573.725 6	1,573.725 6	0.0273	0.0398	1,586.281 3
Total	0.7311	6.0988	6.0273	0.0381	39.4150	0.0727	39.4877	4.3836	0.0692	4.4529		3,987.525 7	3,987.525 7	0.0895	0.3916	4,106.455 9

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	lb/day										lb/day					
Fugitive Dust					3.4258	0.0000	3.4258	1.5669	0.0000	1.5669			0.0000			0.0000
Off-Road	2.1644	24.4363	12.9841	0.0301		1.0408	1.0408		0.9576	0.9576	0.0000	2,919.039 8	2,919.039 8	0.9441		2,942.641 7
Total	2.1644	24.4363	12.9841	0.0301	3.4258	1.0408	4.4666	1.5669	0.9576	2.5245	0.0000	2,919.039 8	2,919.039 8	0.9441		2,942.641 7

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	0.0104	1.8500e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9521	3.9521	1.6000e-004	6.3000e-004	4.1427
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.5392	0.4327	4.9689	0.0156	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,573.725 6	1,573.725 6	0.0273	0.0398	1,586.281 3
Total	0.7311	6.0988	6.0273	0.0381	12.7596	0.0727	12.8324	1.7224	0.0692	1.7916		3,987.525 7	3,987.525 7	0.0895	0.3916	4,106.455 9

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8048	7.9072	13.0525	0.0194		0.3315	0.3315		0.3050	0.3050		1,880.282 2	1,880.282 2	0.6081		1,895.485 2
Total	0.8048	7.9072	13.0525	0.0194	0.0000	0.3315	0.3315	0.0000	0.3050	0.3050		1,880.282 2	1,880.282 2	0.6081		1,895.485 2

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6000e-003	0.1701	0.0303	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8136	64.8136	2.6000e-003	0.0103	67.9405
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.4313	0.3461	3.9751	0.0125	30.9402	7.4400e-003	30.9476	3.3368	6.8600e-003	3.3437		1,258.980 4	1,258.980 4	0.0219	0.0319	1,269.025 1
Total	0.6266	6.1719	5.0620	0.0355	31.6950	0.0722	31.7672	3.5535	0.0688	3.6223		3,733.642 2	3,733.642 2	0.0865	0.3933	3,852.997 5

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8048	7.9072	13.0525	0.0194		0.3315	0.3315		0.3050	0.3050	0.0000	1,880.282 2	1,880.282 2	0.6081		1,895.485 2
Total	0.8048	7.9072	13.0525	0.0194	0.0000	0.3315	0.3315	0.0000	0.3050	0.3050	0.0000	1,880.282 2	1,880.282 2	0.6081		1,895.485 2

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6000e-003	0.1701	0.0303	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8136	64.8136	2.6000e-003	0.0103	67.9405
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.4313	0.3461	3.9751	0.0125	9.6159	7.4400e-003	9.6233	1.2078	6.8600e-003	1.2147		1,258.980 4	1,258.980 4	0.0219	0.0319	1,269.025 1
Total	0.6266	6.1719	5.0620	0.0355	10.3707	0.0722	10.4429	1.4246	0.0688	1.4933		3,733.642 2	3,733.642 2	0.0865	0.3933	3,852.997 5

3.4 Demolition - 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	lb/day										lb/day					
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.513 3	1,429.513 3	0.4623		1,441.071 6
Total	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.513 3	1,429.513 3	0.4623		1,441.071 6

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.3000e-003	0.2976	0.0530	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3100e-003	0.0100		113.4238	113.4238	4.5600e-003	0.0180	118.8959
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
Worker	0.1725	0.1385	1.5901	4.9800e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1788	0.4361	1.6431	6.0200e-003	12.4042	5.3900e-003	12.4095	1.3424	5.0500e-003	1.3475		617.0160	617.0160	0.0133	0.0307	626.5059

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	lb/day										lb/day					
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716
Total	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.3000e-003	0.2976	0.0530	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3100e-003	0.0100		113.4238	113.4238	4.5600e-003	0.0180	118.8959
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
Worker	0.1725	0.1385	1.5901	4.9800e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1788	0.4361	1.6431	6.0200e-003	3.8744	5.3900e-003	3.8798	0.4908	5.0500e-003	0.4959		617.0160	617.0160	0.0133	0.0307	626.5059

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Off-Road	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.5000e-004	0.0213	3.7900e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.7000e-004	7.1000e-004		8.1017	8.1017	3.3000e-004	1.2800e-003	8.4926
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.5392	0.4327	4.9689	0.0156	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,573.7256	1,573.7256	0.0273	0.0398	1,586.2813
Total	0.5636	1.1609	5.1048	0.0185	38.7696	0.0174	38.7870	4.1981	0.0163	4.2144		1,883.0583	1,883.0583	0.0354	0.0850	1,909.2779

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	lb/day										lb/day					
Off-Road	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.5000e-004	0.0213	3.7900e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.7000e-004	7.1000e-004		8.1017	8.1017	3.3000e-004	1.2800e-003	8.4926
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.5392	0.4327	4.9689	0.0156	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,573.7256	1,573.7256	0.0273	0.0398	1,586.2813
Total	0.5636	1.1609	5.1048	0.0185	12.1142	0.0174	12.1316	1.5369	0.0163	1.5532		1,883.0583	1,883.0583	0.0354	0.0850	1,909.2779

3.6 System Installation - 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	lb/day										lb/day					
Off-Road	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386
Total	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3400e-003	0.0635	0.0113	2.2000e-004	5.9900e-003	5.2000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2120	24.2120	9.7000e-004	3.8400e-003	25.3801
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	2.1567	1.7307	19.8757	0.0623	154.7008	0.0372	154.7381	16.6840	0.0343	16.7182		6,294.9022	6,294.9022	0.1093	0.1594	6,345.1253
Total	2.6372	15.9335	22.5284	0.1187	156.5538	0.1961	156.7499	17.2165	0.1862	17.4027		12,343.7345	12,343.7345	0.2653	1.0410	12,660.5851

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	lb/day										lb/day					
Off-Road	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386
Total	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3400e-003	0.0635	0.0113	2.2000e-004	5.9900e-003	5.2000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2120	24.2120	9.7000e-004	3.8400e-003	25.3801
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	2.1567	1.7307	19.8757	0.0623	48.0795	0.0372	48.1167	6.0390	0.0343	6.0733		6,294.9022	6,294.9022	0.1093	0.1594	6,345.1253
Total	2.6372	15.9335	22.5284	0.1187	49.9325	0.1961	50.1285	6.5716	0.1862	6.7578		12,343.7345	12,343.7345	0.2653	1.0410	12,660.5851

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Off-Road	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112
Total	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0300e-003	0.0489	8.7000e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6246	18.6246	7.5000e-004	2.9500e-003	19.5231
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	1.0784	0.8654	9.9378	0.0311	77.3504	0.0186	77.3690	8.3420	0.0171	8.3591		3,147.4511	3,147.4511	0.0546	0.0797	3,172.5627
Total	1.5585	15.0535	12.5880	0.0875	79.2020	0.1774	79.3794	8.8741	0.1690	9.0431		9,190.6960	9,190.6960	0.2104	0.9604	9,482.1655

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	lb/day										lb/day					
Off-Road	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112
Total	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0300e-003	0.0489	8.7000e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6246	18.6246	7.5000e-004	2.9500e-003	19.5231
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	1.0784	0.8654	9.9378	0.0311	24.0397	0.0186	24.0584	3.0195	0.0171	3.0367		3,147.4511	3,147.4511	0.0546	0.0797	3,172.5627
Total	1.5585	15.0535	12.5880	0.0875	25.8913	0.1774	26.0687	3.5517	0.1690	3.7207		9,190.6960	9,190.6960	0.2104	0.9604	9,482.1655

3.8 Gen-Tie 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	lb/day										lb/day					
Off-Road	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609
Total	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.0000e-004	0.0283	5.0500e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8023	10.8023	4.3000e-004	1.7100e-003	11.3234
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1971	0.8738	1.7272	7.8900e-003	12.4711	0.0111	12.4822	1.3620	0.0105	1.3725		815.6255	815.6255	0.0169	0.0584	833.4374

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	lb/day										lb/day					
Off-Road	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609
Total	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.0000e-004	0.0283	5.0500e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8023	10.8023	4.3000e-004	1.7100e-003	11.3234
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1971	0.8738	1.7272	7.8900e-003	3.9414	0.0111	3.9525	0.5104	0.0105	0.5209		815.6255	815.6255	0.0169	0.0584	833.4374

3.9 Energy Storage 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	lb/day										lb/day					
Off-Road	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250
Total	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.3000e-004	0.0203	3.6100e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7159	7.7159	3.1000e-004	1.2200e-003	8.0882
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1969	0.8657	1.7257	7.8600e-003	12.4703	0.0111	12.4814	1.3618	0.0105	1.3723		812.5391	812.5391	0.0168	0.0579	830.2022

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	lb/day										lb/day					
Off-Road	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250
Total	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.3000e-004	0.0203	3.6100e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7159	7.7159	3.1000e-004	1.2200e-003	8.0882
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1969	0.8657	1.7257	7.8600e-003	3.9406	0.0111	3.9517	0.5102	0.0105	0.5207		812.5391	812.5391	0.0168	0.0579	830.2022

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Off-Road	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755
Total	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.5600e-003	0.0739	0.0132	2.6000e-004	6.9800e-003	6.0000e-004	7.5800e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1798	28.1798	1.1300e-003	4.4700e-003	29.5393
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.2804	0.2250	2.5838	8.1000e-003	20.1111	4.8400e-003	20.1160	2.1689	4.4600e-003	2.1734		818.3373	818.3373	0.0142	0.0207	824.8663
Total	0.3059	1.0059	2.7291	0.0112	20.2104	0.0134	20.2238	2.1974	0.0126	2.2100		1,147.7481	1,147.7481	0.0231	0.0691	1,168.9096

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	lb/day										lb/day					
Off-Road	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856	0.0000	841.6702	841.6702	0.2722		848.4755
Total	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856	0.0000	841.6702	841.6702	0.2722		848.4755

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.5600e-003	0.0739	0.0132	2.6000e-004	6.9800e-003	6.0000e-004	7.5800e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1798	28.1798	1.1300e-003	4.4700e-003	29.5393
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.2804	0.2250	2.5838	8.1000e-003	6.2503	4.8400e-003	6.2552	0.7851	4.4600e-003	0.7895		818.3373	818.3373	0.0142	0.0207	824.8663
Total	0.3059	1.0059	2.7291	0.0112	6.3497	0.0134	6.3630	0.8135	0.0126	0.8261		1,147.7481	1,147.7481	0.0231	0.0691	1,168.9096

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Unmitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughouse Solar - Unmitigated with BACT Control - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Sloughhouse Solar - Mitigated
Sacramento Metropolitan AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2023		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00
tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	26.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.50	50.00
tblTripsAndVMT	VendorTripLength	6.50	50.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	40.00
tbITripsAndVMT	WorkerTripNumber	8.00	16.00
tbITripsAndVMT	WorkerTripNumber	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	200.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	2.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	2.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	4-20-2022	7-19-2022	1.6810	0.9030
5	7-20-2022	9-30-2022	2.8436	1.3718
		Highest	2.8436	1.3718

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	2	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Underground Work (Utilities)	Excavators	1	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	1	8.00	8	0.43
Underground Work (Utilities)	Rollers	1	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	1	8.00	100	0.40
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	4	8.00	150	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	6	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	2	8.00	63	0.31
Substation & Switchyard	Cranes	1	8.00	231	0.29
Substation & Switchyard	Excavators	1	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20
Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	1	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	3	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	4	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	1	8.00	221	0.50
Gen-Tie Construction	Cranes	1	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	2	8.00	125	0.38
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	1	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	4	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	1	8.00	65	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	6	50.00	16.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	6	40.00	16.00	16.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Demolition	3	16.00	0.00	14.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	4	50.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
System Installation	15	200.00	40.00	26.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Substation & Switchyard	14	100.00	40.00	20.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	4	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	6	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Clean Up	6	26.00	2.00	8.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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					0.1561	0.0000	0.1561	0.0714	0.0000	0.0714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.5009	0.2662	6.2000e-004		0.0213	0.0213		0.0196	0.0196	0.0000	54.2862	54.2862	0.0176	0.0000	54.7252
Total	0.0444	0.5009	0.2662	6.2000e-004	0.1561	0.0213	0.1774	0.0714	0.0196	0.0910	0.0000	54.2862	54.2862	0.0176	0.0000	54.7252

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	3.8800e-003	0.1137	0.0217	4.6000e-004	0.0147	1.3000e-003	0.0160	4.2500e-003	1.2400e-003	5.4900e-003	0.0000	44.8173	44.8173	1.1600e-003	6.5300e-003	46.7910
Worker	9.9500e-003	7.9300e-003	0.1056	3.3000e-004	0.6717	1.9000e-004	0.6719	0.0732	1.8000e-004	0.0734	0.0000	30.0500	30.0500	5.1000e-004	6.9000e-004	30.2675
Total	0.0138	0.1218	0.1273	7.9000e-004	0.6864	1.4900e-003	0.6879	0.0775	1.4200e-003	0.0789	0.0000	74.9408	74.9408	1.6700e-003	7.2300e-003	77.1355

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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					
Fugitive Dust					0.0702	0.0000	0.0702	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2339	0.2785	6.2000e-004		7.4200e-003	7.4200e-003		6.8700e-003	6.8700e-003	0.0000	54.2862	54.2862	0.0176	0.0000	54.7251
Total	0.0213	0.2339	0.2785	6.2000e-004	0.0702	7.4200e-003	0.0777	0.0321	6.8700e-003	0.0390	0.0000	54.2862	54.2862	0.0176	0.0000	54.7251

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	3.8800e-003	0.1137	0.0217	4.6000e-004	0.0147	1.3000e-003	0.0160	4.2500e-003	1.2400e-003	5.4900e-003	0.0000	44.8173	44.8173	1.1600e-003	6.5300e-003	46.7910
Worker	9.9500e-003	7.9300e-003	0.1056	3.3000e-004	0.2121	1.9000e-004	0.2123	0.0273	1.8000e-004	0.0275	0.0000	30.0500	30.0500	5.1000e-004	6.9000e-004	30.2675
Total	0.0138	0.1218	0.1273	7.9000e-004	0.2268	1.4900e-003	0.2283	0.0316	1.4200e-003	0.0330	0.0000	74.9408	74.9408	1.6700e-003	7.2300e-003	77.1355

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0500e-003	0.0791	0.1305	1.9000e-004		3.3100e-003	3.3100e-003		3.0500e-003	3.0500e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1956
Total	8.0500e-003	0.0791	0.1305	1.9000e-004	0.0000	3.3100e-003	3.3100e-003	0.0000	3.0500e-003	3.0500e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1956

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	4.0000e-005	1.6700e-003	3.0000e-004	1.0000e-005	1.6000e-004	1.0000e-005	1.7000e-004	4.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5879	0.5879	2.0000e-005	9.0000e-005	0.6163
Vendor	1.8900e-003	0.0555	0.0106	2.2000e-004	7.1800e-003	6.3000e-004	7.8100e-003	2.0700e-003	6.1000e-004	2.6800e-003	0.0000	21.8621	21.8621	5.6000e-004	3.1800e-003	22.8249
Worker	3.8800e-003	3.0900e-003	0.0412	1.3000e-004	0.2621	7.0000e-005	0.2622	0.0286	7.0000e-005	0.0286	0.0000	11.7268	11.7268	2.0000e-004	2.7000e-004	11.8117
Total	5.8100e-003	0.0602	0.0521	3.6000e-004	0.2695	7.1000e-004	0.2702	0.0307	6.9000e-004	0.0314	0.0000	34.1769	34.1769	7.8000e-004	3.5400e-003	35.2529

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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					
Fugitive Dust					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	6.7900e-003	0.0731	0.1392	1.9000e-004		1.9200e-003	1.9200e-003		1.7800e-003	1.7800e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1955
Total	6.7900e-003	0.0731	0.1392	1.9000e-004	0.0000	1.9200e-003	1.9200e-003	0.0000	1.7800e-003	1.7800e-003	0.0000	17.0576	17.0576	5.5200e-003	0.0000	17.1955

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	4.0000e-005	1.6700e-003	3.0000e-004	1.0000e-005	1.6000e-004	1.0000e-005	1.7000e-004	4.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5879	0.5879	2.0000e-005	9.0000e-005	0.6163
Vendor	1.8900e-003	0.0555	0.0106	2.2000e-004	7.1800e-003	6.3000e-004	7.8100e-003	2.0700e-003	6.1000e-004	2.6800e-003	0.0000	21.8621	21.8621	5.6000e-004	3.1800e-003	22.8249
Worker	3.8800e-003	3.0900e-003	0.0412	1.3000e-004	0.0828	7.0000e-005	0.0828	0.0107	7.0000e-005	0.0107	0.0000	11.7268	11.7268	2.0000e-004	2.7000e-004	11.8117
Total	5.8100e-003	0.0602	0.0521	3.6000e-004	0.0901	7.1000e-004	0.0908	0.0128	6.9000e-004	0.0135	0.0000	34.1769	34.1769	7.8000e-004	3.5400e-003	35.2529

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366
Total	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366

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	3.0000e-005	1.4600e-003	2.6000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5144	0.5144	2.0000e-005	8.0000e-005	0.5393
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	7.8000e-004	6.2000e-004	8.2400e-003	3.0000e-005	0.0524	1.0000e-005	0.0524	5.7100e-003	1.0000e-005	5.7300e-003	0.0000	2.3454	2.3454	4.0000e-005	5.0000e-005	2.3623
Total	8.1000e-004	2.0800e-003	8.5000e-003	4.0000e-005	0.0526	2.0000e-005	0.0526	5.7500e-003	2.0000e-005	5.7800e-003	0.0000	2.8598	2.8598	6.0000e-005	1.3000e-004	2.9016

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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					
Off-Road	9.0000e-004	3.9100e-003	0.0426	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366
Total	9.0000e-004	3.9100e-003	0.0426	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366

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	3.0000e-005	1.4600e-003	2.6000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5144	0.5144	2.0000e-005	8.0000e-005	0.5393
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	7.8000e-004	6.2000e-004	8.2400e-003	3.0000e-005	0.0166	1.0000e-005	0.0166	2.1300e-003	1.0000e-005	2.1500e-003	0.0000	2.3454	2.3454	4.0000e-005	5.0000e-005	2.3623
Total	8.1000e-004	2.0800e-003	8.5000e-003	4.0000e-005	0.0167	2.0000e-005	0.0167	2.1700e-003	2.0000e-005	2.2000e-003	0.0000	2.8598	2.8598	6.0000e-005	1.3000e-004	2.9016

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	5.2100e-003	0.0523	0.0761	1.2000e-004		2.4700e-003	2.4700e-003		2.2800e-003	2.2800e-003	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624
Total	5.2100e-003	0.0523	0.0761	1.2000e-004		2.4700e-003	2.4700e-003		2.2800e-003	2.2800e-003	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.4000e-004	6.9300e-003	1.3200e-003	3.0000e-005	9.0000e-004	8.0000e-005	9.8000e-004	2.6000e-004	8.0000e-005	3.3000e-004	0.0000	2.7328	2.7328	7.0000e-005	4.0000e-004	2.8531
Worker	4.8500e-003	3.8700e-003	0.0515	1.6000e-004	0.3276	9.0000e-005	0.3277	0.0357	9.0000e-005	0.0358	0.0000	14.6585	14.6585	2.5000e-004	3.4000e-004	14.7646
Total	5.0900e-003	0.0110	0.0529	1.9000e-004	0.3286	1.7000e-004	0.3287	0.0360	1.7000e-004	0.0361	0.0000	17.4648	17.4648	3.2000e-004	7.5000e-004	17.6948

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3.5 Underground Work (Utilities) - 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					
Off-Road	1.7800e-003	8.4900e-003	0.0872	1.2000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624
Total	1.7800e-003	8.4900e-003	0.0872	1.2000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	10.1818	10.1818	3.2200e-003	0.0000	10.2624

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.4000e-004	6.9300e-003	1.3200e-003	3.0000e-005	9.0000e-004	8.0000e-005	9.8000e-004	2.6000e-004	8.0000e-005	3.3000e-004	0.0000	2.7328	2.7328	7.0000e-005	4.0000e-004	2.8531
Worker	4.8500e-003	3.8700e-003	0.0515	1.6000e-004	0.1034	9.0000e-005	0.1035	0.0133	9.0000e-005	0.0134	0.0000	14.6585	14.6585	2.5000e-004	3.4000e-004	14.7646
Total	5.0900e-003	0.0110	0.0529	1.9000e-004	0.1044	1.7000e-004	0.1045	0.0136	1.7000e-004	0.0138	0.0000	17.4648	17.4648	3.2000e-004	7.5000e-004	17.6948

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	0.1530	1.5490	1.9535	3.0800e-003		0.0710	0.0710		0.0653	0.0653	0.0000	270.1365	270.1365	0.0874	0.0000	272.3207
Total	0.1530	1.5490	1.9535	3.0800e-003		0.0710	0.0710		0.0653	0.0653	0.0000	270.1365	270.1365	0.0874	0.0000	272.3207

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	6.0000e-005	2.7100e-003	4.9000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.8000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9554	0.9554	4.0000e-005	1.5000e-004	1.0015
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0844	0.0673	0.8960	2.7800e-003	5.7009	1.6200e-003	5.7025	0.6215	1.4900e-003	0.6230	0.0000	255.0582	255.0582	4.3200e-003	5.8300e-003	256.9045
Total	0.1051	0.6731	1.0117	5.2300e-003	5.7792	8.5200e-003	5.7877	0.6441	8.1000e-003	0.6522	0.0000	493.7641	493.7641	0.0105	0.0406	506.1263

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3.6 System Installation - 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					
Off-Road	0.0696	0.4357	2.1890	3.0800e-003		0.0190	0.0190		0.0178	0.0178	0.0000	270.1361	270.1361	0.0874	0.0000	272.3203
Total	0.0696	0.4357	2.1890	3.0800e-003		0.0190	0.0190		0.0178	0.0178	0.0000	270.1361	270.1361	0.0874	0.0000	272.3203

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	6.0000e-005	2.7100e-003	4.9000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.8000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9554	0.9554	4.0000e-005	1.5000e-004	1.0015
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0844	0.0673	0.8960	2.7800e-003	1.7999	1.6200e-003	1.8015	0.2320	1.4900e-003	0.2335	0.0000	255.0582	255.0582	4.3200e-003	5.8300e-003	256.9045
Total	0.1051	0.6731	1.0117	5.2300e-003	1.8782	8.5200e-003	1.8867	0.2546	8.1000e-003	0.2627	0.0000	493.7641	493.7641	0.0105	0.0406	506.1263

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	0.1398	1.4972	1.5700	3.4600e-003		0.0594	0.0594		0.0547	0.0547	0.0000	304.1807	304.1807	0.0984	0.0000	306.6401
Total	0.1398	1.4972	1.5700	3.4600e-003		0.0594	0.0594		0.0547	0.0547	0.0000	304.1807	304.1807	0.0984	0.0000	306.6401

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	2.0800e-003	3.7000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7349	0.7349	3.0000e-005	1.2000e-004	0.7704
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0422	0.0337	0.4480	1.3900e-003	2.8505	8.1000e-004	2.8513	0.3107	7.5000e-004	0.3115	0.0000	127.5291	127.5291	2.1600e-003	2.9200e-003	128.4522
Total	0.0629	0.6388	0.5635	3.8400e-003	2.9287	7.7100e-003	2.9364	0.3333	7.3600e-003	0.3407	0.0000	366.0145	366.0145	8.3200e-003	0.0377	377.4429

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3.7 Substation & Switchyard - 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					
Off-Road	0.0521	0.3259	1.9828	3.4600e-003		9.1400e-003	9.1400e-003		8.8300e-003	8.8300e-003	0.0000	304.1803	304.1803	0.0984	0.0000	306.6398
Total	0.0521	0.3259	1.9828	3.4600e-003		9.1400e-003	9.1400e-003		8.8300e-003	8.8300e-003	0.0000	304.1803	304.1803	0.0984	0.0000	306.6398

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	2.0800e-003	3.7000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7349	0.7349	3.0000e-005	1.2000e-004	0.7704
Vendor	0.0206	0.6031	0.1151	2.4400e-003	0.0781	6.8800e-003	0.0849	0.0225	6.5900e-003	0.0291	0.0000	237.7505	237.7505	6.1300e-003	0.0346	248.2203
Worker	0.0422	0.0337	0.4480	1.3900e-003	0.8999	8.1000e-004	0.9008	0.1160	7.5000e-004	0.1167	0.0000	127.5291	127.5291	2.1600e-003	2.9200e-003	128.4522
Total	0.0629	0.6388	0.5635	3.8400e-003	0.9782	7.7100e-003	0.9859	0.1386	7.3600e-003	0.1459	0.0000	366.0145	366.0145	8.3200e-003	0.0377	377.4429

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	7.5000e-003	0.0711	0.0708	1.8000e-004		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	15.3781	15.3781	4.9700e-003	0.0000	15.5024
Total	7.5000e-003	0.0711	0.0708	1.8000e-004		2.9500e-003	2.9500e-003		2.7100e-003	2.7100e-003	0.0000	15.3781	15.3781	4.9700e-003	0.0000	15.5024

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	1.8000e-004	5.2000e-003	9.9000e-004	2.0000e-005	6.7000e-004	6.0000e-005	7.3000e-004	1.9000e-004	6.0000e-005	2.5000e-004	0.0000	2.0496	2.0496	5.0000e-005	3.0000e-004	2.1398
Worker	1.1600e-003	9.3000e-004	0.0124	4.0000e-005	0.0786	2.0000e-005	0.0787	8.5700e-003	2.0000e-005	8.5900e-003	0.0000	3.5180	3.5180	6.0000e-005	8.0000e-005	3.5435
Total	1.3400e-003	6.3400e-003	0.0134	6.0000e-005	0.0793	8.0000e-005	0.0794	8.7700e-003	8.0000e-005	8.8500e-003	0.0000	5.6411	5.6411	1.1000e-004	3.9000e-004	5.7604

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie Construction - 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					
Off-Road	4.4300e-003	0.0289	0.0929	1.8000e-004		1.2900e-003	1.2900e-003		1.2000e-003	1.2000e-003	0.0000	15.3780	15.3780	4.9700e-003	0.0000	15.5024
Total	4.4300e-003	0.0289	0.0929	1.8000e-004		1.2900e-003	1.2900e-003		1.2000e-003	1.2000e-003	0.0000	15.3780	15.3780	4.9700e-003	0.0000	15.5024

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	1.8000e-004	5.2000e-003	9.9000e-004	2.0000e-005	6.7000e-004	6.0000e-005	7.3000e-004	1.9000e-004	6.0000e-005	2.5000e-004	0.0000	2.0496	2.0496	5.0000e-005	3.0000e-004	2.1398
Worker	1.1600e-003	9.3000e-004	0.0124	4.0000e-005	0.0248	2.0000e-005	0.0249	3.2000e-003	2.0000e-005	3.2200e-003	0.0000	3.5180	3.5180	6.0000e-005	8.0000e-005	3.5435
Total	1.3400e-003	6.3400e-003	0.0134	6.0000e-005	0.0255	8.0000e-005	0.0256	3.4000e-003	8.0000e-005	3.4800e-003	0.0000	5.6411	5.6411	1.1000e-004	3.9000e-004	5.7604

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage 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					
Off-Road	0.0130	0.1613	0.1341	2.7000e-004		5.7500e-003	5.7500e-003		5.2900e-003	5.2900e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3435
Total	0.0130	0.1613	0.1341	2.7000e-004		5.7500e-003	5.7500e-003		5.2900e-003	5.2900e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3435

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.5000e-004	7.2800e-003	1.3900e-003	3.0000e-005	9.4000e-004	8.0000e-005	1.0300e-003	2.7000e-004	8.0000e-005	3.5000e-004	0.0000	2.8694	2.8694	7.0000e-005	4.2000e-004	2.9958
Worker	1.6300e-003	1.3000e-003	0.0173	5.0000e-005	0.1101	3.0000e-005	0.1101	0.0120	3.0000e-005	0.0120	0.0000	4.9253	4.9253	8.0000e-005	1.1000e-004	4.9609
Total	1.8800e-003	8.7900e-003	0.0187	8.0000e-005	0.1111	1.1000e-004	0.1112	0.0123	1.1000e-004	0.0124	0.0000	7.8682	7.8682	1.5000e-004	5.4000e-004	8.0337

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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					
Off-Road	6.8800e-003	0.0661	0.1550	2.7000e-004		2.0900e-003	2.0900e-003		1.9500e-003	1.9500e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3434
Total	6.8800e-003	0.0661	0.1550	2.7000e-004		2.0900e-003	2.0900e-003		1.9500e-003	1.9500e-003	0.0000	24.1482	24.1482	7.8100e-003	0.0000	24.3434

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	2.1000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0735	0.0735	0.0000	1.0000e-005	0.0770
Vendor	2.5000e-004	7.2800e-003	1.3900e-003	3.0000e-005	9.4000e-004	8.0000e-005	1.0300e-003	2.7000e-004	8.0000e-005	3.5000e-004	0.0000	2.8694	2.8694	7.0000e-005	4.2000e-004	2.9958
Worker	1.6300e-003	1.3000e-003	0.0173	5.0000e-005	0.0348	3.0000e-005	0.0348	4.4800e-003	3.0000e-005	4.5100e-003	0.0000	4.9253	4.9253	8.0000e-005	1.1000e-004	4.9609
Total	1.8800e-003	8.7900e-003	0.0187	8.0000e-005	0.0357	1.1000e-004	0.0358	4.7600e-003	1.1000e-004	4.8700e-003	0.0000	7.8682	7.8682	1.5000e-004	5.4000e-004	8.0337

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	5.5700e-003	0.0711	0.0358	1.0000e-004		2.3200e-003	2.3200e-003		2.1300e-003	2.1300e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518
Total	5.5700e-003	0.0711	0.0358	1.0000e-004		2.3200e-003	2.3200e-003		2.1300e-003	2.1300e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518

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	2.0000e-005	8.3000e-004	1.5000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2940	0.2940	1.0000e-005	5.0000e-005	0.3082
Vendor	2.7000e-004	7.9700e-003	1.5200e-003	3.0000e-005	1.0300e-003	9.0000e-005	1.1200e-003	3.0000e-004	9.0000e-005	3.8000e-004	0.0000	3.1427	3.1427	8.0000e-005	4.6000e-004	3.2811
Worker	2.9000e-003	2.3100e-003	0.0308	1.0000e-004	0.1959	6.0000e-005	0.1960	0.0214	5.0000e-005	0.0214	0.0000	8.7658	8.7658	1.5000e-004	2.0000e-004	8.8293
Total	3.1900e-003	0.0111	0.0325	1.3000e-004	0.1970	1.6000e-004	0.1972	0.0217	1.5000e-004	0.0218	0.0000	12.2024	12.2024	2.4000e-004	7.1000e-004	12.4185

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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					
Off-Road	5.3600e-003	0.0738	0.0379	1.0000e-004		1.9600e-003	1.9600e-003		1.8100e-003	1.8100e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518
Total	5.3600e-003	0.0738	0.0379	1.0000e-004		1.9600e-003	1.9600e-003		1.8100e-003	1.8100e-003	0.0000	8.7808	8.7808	2.8400e-003	0.0000	8.8518

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	2.0000e-005	8.3000e-004	1.5000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2940	0.2940	1.0000e-005	5.0000e-005	0.3082
Vendor	2.7000e-004	7.9700e-003	1.5200e-003	3.0000e-005	1.0300e-003	9.0000e-005	1.1200e-003	3.0000e-004	9.0000e-005	3.8000e-004	0.0000	3.1427	3.1427	8.0000e-005	4.6000e-004	3.2811
Worker	2.9000e-003	2.3100e-003	0.0308	1.0000e-004	0.0619	6.0000e-005	0.0619	7.9700e-003	5.0000e-005	8.0200e-003	0.0000	8.7658	8.7658	1.5000e-004	2.0000e-004	8.8293
Total	3.1900e-003	0.0111	0.0325	1.3000e-004	0.0630	1.6000e-004	0.0631	8.2900e-003	1.5000e-004	8.4300e-003	0.0000	12.2024	12.2024	2.4000e-004	7.1000e-004	12.4185

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Unmitigated	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3704	3.0000e-005	0.0000	0.3725
Unmitigated	0.3704	3.0000e-005	0.0000	0.3725

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9541	0.0564	0.0000	2.3636
Unmitigated	0.9541	0.0564	0.0000	2.3636

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Mitigated
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2023		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00
tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	26.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.50	50.00
tblTripsAndVMT	VendorTripLength	6.50	50.00

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	40.00
tbITripsAndVMT	WorkerTripNumber	8.00	16.00
tbITripsAndVMT	WorkerTripNumber	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	200.00

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	2.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	2.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	2	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	1	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	1	8.00	8	0.43
Underground Work (Utilities)	Rollers	1	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	1	8.00	100	0.40
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	4	8.00	150	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	6	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	2	8.00	63	0.31
Substation & Switchyard	Cranes	1	8.00	231	0.29
Substation & Switchyard	Excavators	1	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	1	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	3	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	4	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	1	8.00	221	0.50
Gen-Tie Construction	Cranes	1	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	2	8.00	125	0.38
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Comissioning, Site Clean Up	Graders	1	8.00	187	0.41
Testing, Comissioning, Site Clean Up	Off-Highway Trucks	4	8.00	100	0.38
Testing, Comissioning, Site Clean Up	Skid Steer Loaders	1	8.00	65	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	6	50.00	16.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	6	40.00	16.00	16.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Demolition	3	16.00	0.00	14.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	4	50.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
System Installation	15	200.00	40.00	26.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	14	100.00	40.00	20.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	4	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	6	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	6	26.00	2.00	8.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	2.1644	24.4363	12.9841	0.0301		1.0408	1.0408		0.9576	0.9576		2,919.0398	2,919.0398	0.9441		2,942.6417
Total	2.1644	24.4363	12.9841	0.0301	7.6128	1.0408	8.6537	3.4820	0.9576	4.4396		2,919.0398	2,919.0398	0.9441		2,942.6417

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	9.5900e-003	1.8100e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9516	3.9516	1.6000e-004	6.3000e-004	4.1422
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.918 1	2,409.918 1	0.0622	0.3505	2,515.934 1
Worker	0.5180	0.3508	6.4227	0.0176	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,774.183 6	1,774.183 6	0.0296	0.0346	1,785.237 5
Total	0.7086	5.5688	7.4865	0.0401	39.4150	0.0727	39.4876	4.3836	0.0692	4.4528		4,188.053 3	4,188.053 3	0.0920	0.3858	4,305.313 8

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	lb/day										lb/day					
Fugitive Dust					3.4258	0.0000	3.4258	1.5669	0.0000	1.5669			0.0000			0.0000
Off-Road	1.0369	11.4116	13.5868	0.0301		0.3620	0.3620		0.3352	0.3352	0.0000	2,919.039 8	2,919.039 8	0.9441		2,942.641 7
Total	1.0369	11.4116	13.5868	0.0301	3.4258	0.3620	3.7878	1.5669	0.3352	1.9021	0.0000	2,919.039 8	2,919.039 8	0.9441		2,942.641 7

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	9.5900e-003	1.8100e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9516	3.9516	1.6000e-004	6.3000e-004	4.1422
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.9181	2,409.9181	0.0622	0.3505	2,515.9341
Worker	0.5180	0.3508	6.4227	0.0176	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,774.1836	1,774.1836	0.0296	0.0346	1,785.2375
Total	0.7086	5.5688	7.4865	0.0401	12.7596	0.0727	12.8323	1.7224	0.0692	1.7916		4,188.0533	4,188.0533	0.0920	0.3858	4,305.3138

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8048	7.9072	13.0525	0.0194		0.3315	0.3315		0.3050	0.3050		1,880.2822	1,880.2822	0.6081		1,895.4852
Total	0.8048	7.9072	13.0525	0.0194	0.0000	0.3315	0.3315	0.0000	0.3050	0.3050		1,880.2822	1,880.2822	0.6081		1,895.4852

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6900e-003	0.1574	0.0297	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8055	64.8055	2.6100e-003	0.0103	67.9319
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.9181	2,409.9181	0.0622	0.3505	2,515.9341
Worker	0.4144	0.2807	5.1381	0.0140	30.9402	7.4400e-003	30.9476	3.3368	6.8600e-003	3.3437		1,419.3469	1,419.3469	0.0237	0.0277	1,428.1900
Total	0.6085	5.6464	6.2299	0.0371	31.6950	0.0721	31.7671	3.5535	0.0687	3.6223		3,894.0705	3,894.0705	0.0885	0.3885	4,012.0560

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6792	7.3112	13.9211	0.0194		0.1922	0.1922		0.1781	0.1781	0.0000	1,880.2822	1,880.2822	0.6081		1,895.4852
Total	0.6792	7.3112	13.9211	0.0194	0.0000	0.1922	0.1922	0.0000	0.1781	0.1781	0.0000	1,880.2822	1,880.2822	0.6081		1,895.4852

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6900e-003	0.1574	0.0297	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8055	64.8055	2.6100e-003	0.0103	67.9319
Vendor	0.1904	5.2084	1.0620	0.0225	0.7388	0.0633	0.8021	0.2124	0.0605	0.2729		2,409.9181	2,409.9181	0.0622	0.3505	2,515.9341
Worker	0.4144	0.2807	5.1381	0.0140	9.6159	7.4400e-003	9.6233	1.2078	6.8600e-003	1.2147		1,419.3469	1,419.3469	0.0237	0.0277	1,428.1900
Total	0.6085	5.6464	6.2299	0.0371	10.3707	0.0721	10.4428	1.4246	0.0687	1.4933		3,894.0705	3,894.0705	0.0885	0.3885	4,012.0560

3.4 Demolition - 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	lb/day										lb/day					
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.5133	1,429.5133	0.4623		1,441.0716
Total	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.5133	1,429.5133	0.4623		1,441.0716

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.4600e-003	0.2754	0.0520	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3000e-003	9.9900e-003		113.4096	113.4096	4.5600e-003	0.0180	118.8808
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
Worker	0.1658	0.1123	2.0553	5.6200e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1722	0.3876	2.1073	6.6600e-003	12.4042	5.3900e-003	12.4095	1.3424	5.0400e-003	1.3475		681.1483	681.1483	0.0140	0.0291	690.1568

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	lb/day										lb/day					
Off-Road	0.1805	0.7822	8.5177	0.0148		0.0241	0.0241		0.0241	0.0241	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716
Total	0.1805	0.7822	8.5177	0.0148		0.0241	0.0241		0.0241	0.0241	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.4600e-003	0.2754	0.0520	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3000e-003	9.9900e-003		113.4096	113.4096	4.5600e-003	0.0180	118.8808
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
Worker	0.1658	0.1123	2.0553	5.6200e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1722	0.3876	2.1073	6.6600e-003	3.8744	5.3900e-003	3.8798	0.4908	5.0400e-003	0.4959		681.1483	681.1483	0.0140	0.0291	690.1568

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Off-Road	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.6000e-004	0.0197	3.7200e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.6000e-004	7.1000e-004		8.1007	8.1007	3.3000e-004	1.2800e-003	8.4915
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.5180	0.3508	6.4227	0.0176	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,774.1836	1,774.1836	0.0296	0.0346	1,785.2375
Total	0.5422	1.0215	6.5591	0.0204	38.7696	0.0174	38.7870	4.1981	0.0163	4.2144		2,083.5241	2,083.5241	0.0377	0.0797	2,108.2208

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	lb/day										lb/day					
Off-Road	0.1781	0.8495	8.7226	0.0117		0.0282	0.0282		0.0282	0.0282	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.1781	0.8495	8.7226	0.0117		0.0282	0.0282		0.0282	0.0282	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.6000e-004	0.0197	3.7200e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.6000e-004	7.1000e-004		8.1007	8.1007	3.3000e-004	1.2800e-003	8.4915
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.5180	0.3508	6.4227	0.0176	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,774.1836	1,774.1836	0.0296	0.0346	1,785.2375
Total	0.5422	1.0215	6.5591	0.0204	12.1142	0.0174	12.1316	1.5369	0.0163	1.5532		2,083.5241	2,083.5241	0.0377	0.0797	2,108.2208

3.6 System Installation - 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	lb/day										lb/day					
Off-Road	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386
Total	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3800e-003	0.0588	0.0111	2.2000e-004	5.9900e-003	5.1000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2089	24.2089	9.7000e-004	3.8400e-003	25.3769
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	2.0719	1.4032	25.6907	0.0702	154.7008	0.0372	154.7381	16.6840	0.0343	16.7182		7,096.7344	7,096.7344	0.1185	0.1384	7,140.9501
Total	2.5494	14.4831	28.3569	0.1266	156.5538	0.1959	156.7497	17.2165	0.1861	17.4026		13,145.7387	13,145.7387	0.2750	1.0186	13,456.1622

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	lb/day										lb/day					
Off-Road	1.5989	10.0149	50.3226	0.0707		0.4368	0.4368		0.4086	0.4086	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386
Total	1.5989	10.0149	50.3226	0.0707		0.4368	0.4368		0.4086	0.4086	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3800e-003	0.0588	0.0111	2.2000e-004	5.9900e-003	5.1000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2089	24.2089	9.7000e-004	3.8400e-003	25.3769
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	2.0719	1.4032	25.6907	0.0702	48.0795	0.0372	48.1167	6.0390	0.0343	6.0733		7,096.7344	7,096.7344	0.1185	0.1384	7,140.9501
Total	2.5494	14.4831	28.3569	0.1266	49.9325	0.1959	50.1284	6.5716	0.1861	6.7577		13,145.7387	13,145.7387	0.2750	1.0186	13,456.1622

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Off-Road	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112
Total	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0600e-003	0.0452	8.5500e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6223	18.6223	7.5000e-004	2.9500e-003	19.5207
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	1.0359	0.7016	12.8453	0.0351	77.3504	0.0186	77.3690	8.3420	0.0171	8.3591		3,548.3672	3,548.3672	0.0592	0.0692	3,570.4751
Total	1.5131	13.7679	15.5090	0.0915	79.2020	0.1772	79.3792	8.8741	0.1689	9.0430		9,591.7848	9,591.7848	0.2155	0.9485	9,879.8309

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	lb/day										lb/day					
Off-Road	1.1978	7.4913	45.5819	0.0796		0.2101	0.2101		0.2030	0.2030	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112
Total	1.1978	7.4913	45.5819	0.0796		0.2101	0.2101		0.2030	0.2030	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0600e-003	0.0452	8.5500e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6223	18.6223	7.5000e-004	2.9500e-003	19.5207
Vendor	0.4761	13.0211	2.6551	0.0562	1.8470	0.1582	2.0052	0.5309	0.1513	0.6822		6,024.7953	6,024.7953	0.1555	0.8764	6,289.8352
Worker	1.0359	0.7016	12.8453	0.0351	24.0397	0.0186	24.0584	3.0195	0.0171	3.0367		3,548.3672	3,548.3672	0.0592	0.0692	3,570.4751
Total	1.5131	13.7679	15.5090	0.0915	25.8913	0.1772	26.0685	3.5517	0.1689	3.7205		9,591.7848	9,591.7848	0.2155	0.9485	9,879.8309

3.8 Gen-Tie 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	lb/day										lb/day					
Off-Road	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609
Total	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.1000e-004	0.0262	4.9600e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8009	10.8009	4.3000e-004	1.7100e-003	11.3220
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1902	0.7895	2.1930	8.5300e-003	12.4711	0.0111	12.4822	1.3620	0.0105	1.3725		879.7794	879.7794	0.0177	0.0566	897.0898

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	lb/day										lb/day					
Off-Road	0.5913	3.8481	12.3890	0.0234		0.1720	0.1720		0.1602	0.1602	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609
Total	0.5913	3.8481	12.3890	0.0234		0.1720	0.1720		0.1602	0.1602	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.1000e-004	0.0262	4.9600e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8009	10.8009	4.3000e-004	1.7100e-003	11.3220
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1902	0.7895	2.1930	8.5300e-003	3.9414	0.0111	3.9525	0.5104	0.0105	0.5209		879.7794	879.7794	0.0177	0.0566	897.0898

3.9 Energy Storage 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	lb/day										lb/day					
Off-Road	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250
Total	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.4000e-004	0.0187	3.5400e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7149	7.7149	3.1000e-004	1.2200e-003	8.0871
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1900	0.7820	2.1915	8.5000e-003	12.4703	0.0111	12.4814	1.3618	0.0105	1.3723		876.6935	876.6935	0.0176	0.0561	893.8549

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	lb/day										lb/day					
Off-Road	0.6552	6.2985	14.7621	0.0262		0.1992	0.1992		0.1859	0.1859	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250
Total	0.6552	6.2985	14.7621	0.0262		0.1992	0.1992		0.1859	0.1859	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.4000e-004	0.0187	3.5400e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7149	7.7149	3.1000e-004	1.2200e-003	8.0871
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.1658	0.1123	2.0553	5.6200e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		567.7388	567.7388	9.4800e-003	0.0111	571.2760
Total	0.1900	0.7820	2.1915	8.5000e-003	3.9406	0.0111	3.9517	0.5102	0.0105	0.5207		876.6935	876.6935	0.0176	0.0561	893.8549

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Off-Road	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755
Total	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.6000e-003	0.0684	0.0129	2.6000e-004	6.9800e-003	6.0000e-004	7.5700e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1763	28.1763	1.1300e-003	4.4700e-003	29.5356
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.2694	0.1824	3.3398	9.1300e-003	20.1111	4.8400e-003	20.1160	2.1689	4.4600e-003	2.1734		922.5755	922.5755	0.0154	0.0180	928.3235
Total	0.2948	0.9019	3.4855	0.0122	20.2104	0.0134	20.2238	2.1974	0.0126	2.2100		1,251.9915	1,251.9915	0.0243	0.0663	1,272.3509

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	lb/day										lb/day					
Off-Road	0.4659	6.4198	3.2912	8.6900e-003		0.1706	0.1706		0.1572	0.1572	0.0000	841.6702	841.6702	0.2722		848.4755
Total	0.4659	6.4198	3.2912	8.6900e-003		0.1706	0.1706		0.1572	0.1572	0.0000	841.6702	841.6702	0.2722		848.4755

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.6000e-003	0.0684	0.0129	2.6000e-004	6.9800e-003	6.0000e-004	7.5700e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1763	28.1763	1.1300e-003	4.4700e-003	29.5356
Vendor	0.0238	0.6511	0.1328	2.8100e-003	0.0924	7.9100e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2398	301.2398	7.7700e-003	0.0438	314.4918
Worker	0.2694	0.1824	3.3398	9.1300e-003	6.2503	4.8400e-003	6.2552	0.7851	4.4600e-003	0.7895		922.5755	922.5755	0.0154	0.0180	928.3235
Total	0.2948	0.9019	3.4855	0.0122	6.3497	0.0134	6.3630	0.8135	0.0126	0.8261		1,251.9915	1,251.9915	0.0243	0.0663	1,272.3509

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Unmitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Sloughhouse Solar - Mitigated
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00
tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	26.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.50	50.00
tblTripsAndVMT	VendorTripLength	6.50	50.00

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	1.00	40.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	40.00
tbITripsAndVMT	WorkerTripNumber	8.00	16.00
tbITripsAndVMT	WorkerTripNumber	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	200.00

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	2.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	2.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	2	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	1	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	1	8.00	8	0.43
Underground Work (Utilities)	Rollers	1	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	1	8.00	100	0.40
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	4	8.00	150	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	6	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	2	8.00	63	0.31
Substation & Switchyard	Cranes	1	8.00	231	0.29
Substation & Switchyard	Excavators	1	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	1	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	3	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	4	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	1	8.00	221	0.50
Gen-Tie Construction	Cranes	1	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	2	8.00	125	0.38
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	1	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	4	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	1	8.00	65	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	6	50.00	16.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	6	40.00	16.00	16.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Demolition	3	16.00	0.00	14.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	4	50.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
System Installation	15	200.00	40.00	26.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	14	100.00	40.00	20.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	4	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	6	16.00	2.00	2.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	6	26.00	2.00	8.00	50.00	50.00	23.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	2.1644	24.4363	12.9841	0.0301		1.0408	1.0408		0.9576	0.9576		2,919.0398	2,919.0398	0.9441		2,942.6417
Total	2.1644	24.4363	12.9841	0.0301	7.6128	1.0408	8.6537	3.4820	0.9576	4.4396		2,919.0398	2,919.0398	0.9441		2,942.6417

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	0.0104	1.8500e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9521	3.9521	1.6000e-004	6.3000e-004	4.1427
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.8481	2,409.8481	0.0620	0.3511	2,516.0319
Worker	0.5392	0.4327	4.9689	0.0156	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,573.7256	1,573.7256	0.0273	0.0398	1,586.2813
Total	0.7311	6.0988	6.0273	0.0381	39.4150	0.0727	39.4877	4.3836	0.0692	4.4529		3,987.5257	3,987.5257	0.0895	0.3916	4,106.4559

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	lb/day										lb/day					
Fugitive Dust					3.4258	0.0000	3.4258	1.5669	0.0000	1.5669			0.0000			0.0000
Off-Road	1.0369	11.4116	13.5868	0.0301		0.3620	0.3620		0.3352	0.3352	0.0000	2,919.0398	2,919.0398	0.9441		2,942.6417
Total	1.0369	11.4116	13.5868	0.0301	3.4258	0.3620	3.7878	1.5669	0.3352	1.9021	0.0000	2,919.0398	2,919.0398	0.9441		2,942.6417

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.2000e-004	0.0104	1.8500e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.7000e-004	8.0000e-005	3.5000e-004		3.9521	3.9521	1.6000e-004	6.3000e-004	4.1427
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.5392	0.4327	4.9689	0.0156	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,573.725 6	1,573.725 6	0.0273	0.0398	1,586.281 3
Total	0.7311	6.0988	6.0273	0.0381	12.7596	0.0727	12.8324	1.7224	0.0692	1.7916		3,987.525 7	3,987.525 7	0.0895	0.3916	4,106.455 9

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8048	7.9072	13.0525	0.0194		0.3315	0.3315		0.3050	0.3050		1,880.282 2	1,880.282 2	0.6081		1,895.485 2
Total	0.8048	7.9072	13.0525	0.0194	0.0000	0.3315	0.3315	0.0000	0.3050	0.3050		1,880.282 2	1,880.282 2	0.6081		1,895.485 2

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6000e-003	0.1701	0.0303	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8136	64.8136	2.6000e-003	0.0103	67.9405
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.4313	0.3461	3.9751	0.0125	30.9402	7.4400e-003	30.9476	3.3368	6.8600e-003	3.3437		1,258.980 4	1,258.980 4	0.0219	0.0319	1,269.025 1
Total	0.6266	6.1719	5.0620	0.0355	31.6950	0.0722	31.7672	3.5535	0.0688	3.6223		3,733.642 2	3,733.642 2	0.0865	0.3933	3,852.997 5

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6792	7.3112	13.9211	0.0194		0.1922	0.1922		0.1781	0.1781	0.0000	1,880.282 2	1,880.282 2	0.6081		1,895.485 2
Total	0.6792	7.3112	13.9211	0.0194	0.0000	0.1922	0.1922	0.0000	0.1781	0.1781	0.0000	1,880.282 2	1,880.282 2	0.6081		1,895.485 2

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.6000e-003	0.1701	0.0303	5.9000e-004	0.0160	1.3800e-003	0.0174	4.3900e-003	1.3200e-003	5.7100e-003		64.8136	64.8136	2.6000e-003	0.0103	67.9405
Vendor	0.1917	5.6557	1.0566	0.0225	0.7388	0.0633	0.8021	0.2124	0.0606	0.2730		2,409.848 1	2,409.848 1	0.0620	0.3511	2,516.031 9
Worker	0.4313	0.3461	3.9751	0.0125	9.6159	7.4400e-003	9.6233	1.2078	6.8600e-003	1.2147		1,258.980 4	1,258.980 4	0.0219	0.0319	1,269.025 1
Total	0.6266	6.1719	5.0620	0.0355	10.3707	0.0722	10.4429	1.4246	0.0688	1.4933		3,733.642 2	3,733.642 2	0.0865	0.3933	3,852.997 5

3.4 Demolition - 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	lb/day										lb/day					
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.513 3	1,429.513 3	0.4623		1,441.071 6
Total	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.513 3	1,429.513 3	0.4623		1,441.071 6

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.3000e-003	0.2976	0.0530	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3100e-003	0.0100		113.4238	113.4238	4.5600e-003	0.0180	118.8959
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
Worker	0.1725	0.1385	1.5901	4.9800e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1788	0.4361	1.6431	6.0200e-003	12.4042	5.3900e-003	12.4095	1.3424	5.0500e-003	1.3475		617.0160	617.0160	0.0133	0.0307	626.5059

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	lb/day										lb/day					
Off-Road	0.1805	0.7822	8.5177	0.0148		0.0241	0.0241		0.0241	0.0241	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716
Total	0.1805	0.7822	8.5177	0.0148		0.0241	0.0241		0.0241	0.0241	0.0000	1,429.5133	1,429.5133	0.4623		1,441.0716

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.3000e-003	0.2976	0.0530	1.0400e-003	0.0281	2.4100e-003	0.0305	7.6900e-003	2.3100e-003	0.0100		113.4238	113.4238	4.5600e-003	0.0180	118.8959
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
Worker	0.1725	0.1385	1.5901	4.9800e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1788	0.4361	1.6431	6.0200e-003	3.8744	5.3900e-003	3.8798	0.4908	5.0500e-003	0.4959		617.0160	617.0160	0.0133	0.0307	626.5059

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Off-Road	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.5207	5.2345	7.6143	0.0117		0.2468	0.2468		0.2278	0.2278		1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.5000e-004	0.0213	3.7900e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.7000e-004	7.1000e-004		8.1017	8.1017	3.3000e-004	1.2800e-003	8.4926
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.5392	0.4327	4.9689	0.0156	38.6752	9.3000e-003	38.6845	4.1710	8.5700e-003	4.1796		1,573.7256	1,573.7256	0.0273	0.0398	1,586.2813
Total	0.5636	1.1609	5.1048	0.0185	38.7696	0.0174	38.7870	4.1981	0.0163	4.2144		1,883.0583	1,883.0583	0.0354	0.0850	1,909.2779

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	lb/day										lb/day					
Off-Road	0.1781	0.8495	8.7226	0.0117		0.0282	0.0282		0.0282	0.0282	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385
Total	0.1781	0.8495	8.7226	0.0117		0.0282	0.0282		0.0282	0.0282	0.0000	1,122.3530	1,122.3530	0.3554		1,131.2385

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.5000e-004	0.0213	3.7900e-003	7.0000e-005	2.0100e-003	1.7000e-004	2.1800e-003	5.5000e-004	1.7000e-004	7.1000e-004		8.1017	8.1017	3.3000e-004	1.2800e-003	8.4926
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.5392	0.4327	4.9689	0.0156	12.0199	9.3000e-003	12.0292	1.5098	8.5700e-003	1.5183		1,573.7256	1,573.7256	0.0273	0.0398	1,586.2813
Total	0.5636	1.1609	5.1048	0.0185	12.1142	0.0174	12.1316	1.5369	0.0163	1.5532		1,883.0583	1,883.0583	0.0354	0.0850	1,909.2779

3.6 System Installation - 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	lb/day										lb/day					
Off-Road	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386
Total	3.5164	35.6087	44.9088	0.0707		1.6324	1.6324		1.5018	1.5018		6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3400e-003	0.0635	0.0113	2.2000e-004	5.9900e-003	5.2000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2120	24.2120	9.7000e-004	3.8400e-003	25.3801
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	2.1567	1.7307	19.8757	0.0623	154.7008	0.0372	154.7381	16.6840	0.0343	16.7182		6,294.9022	6,294.9022	0.1093	0.1594	6,345.1253
Total	2.6372	15.9335	22.5284	0.1187	156.5538	0.1961	156.7499	17.2165	0.1862	17.4027		12,343.7345	12,343.7345	0.2653	1.0410	12,660.5851

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	lb/day										lb/day					
Off-Road	1.5989	10.0149	50.3226	0.0707		0.4368	0.4368		0.4086	0.4086	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386
Total	1.5989	10.0149	50.3226	0.0707		0.4368	0.4368		0.4086	0.4086	0.0000	6,845.3901	6,845.3901	2.2139		6,900.7386

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.3400e-003	0.0635	0.0113	2.2000e-004	5.9900e-003	5.2000e-004	6.5100e-003	1.6400e-003	4.9000e-004	2.1300e-003		24.2120	24.2120	9.7000e-004	3.8400e-003	25.3801
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	2.1567	1.7307	19.8757	0.0623	48.0795	0.0372	48.1167	6.0390	0.0343	6.0733		6,294.9022	6,294.9022	0.1093	0.1594	6,345.1253
Total	2.6372	15.9335	22.5284	0.1187	49.9325	0.1961	50.1285	6.5716	0.1862	6.7578		12,343.7345	12,343.7345	0.2653	1.0410	12,660.5851

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Off-Road	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112
Total	3.2127	34.4176	36.0922	0.0796		1.3658	1.3658		1.2565	1.2565		7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0300e-003	0.0489	8.7000e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6246	18.6246	7.5000e-004	2.9500e-003	19.5231
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	1.0784	0.8654	9.9378	0.0311	77.3504	0.0186	77.3690	8.3420	0.0171	8.3591		3,147.4511	3,147.4511	0.0546	0.0797	3,172.5627
Total	1.5585	15.0535	12.5880	0.0875	79.2020	0.1774	79.3794	8.8741	0.1690	9.0431		9,190.6960	9,190.6960	0.2104	0.9604	9,482.1655

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	lb/day										lb/day					
Off-Road	1.1978	7.4913	45.5819	0.0796		0.2101	0.2101		0.2030	0.2030	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112
Total	1.1978	7.4913	45.5819	0.0796		0.2101	0.2101		0.2030	0.2030	0.0000	7,708.0874	7,708.0874	2.4930		7,770.4112

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.0300e-003	0.0489	8.7000e-003	1.7000e-004	4.6100e-003	4.0000e-004	5.0100e-003	1.2600e-003	3.8000e-004	1.6400e-003		18.6246	18.6246	7.5000e-004	2.9500e-003	19.5231
Vendor	0.4791	14.1392	2.6415	0.0562	1.8470	0.1583	2.0053	0.5309	0.1515	0.6824		6,024.6203	6,024.6203	0.1550	0.8778	6,290.0798
Worker	1.0784	0.8654	9.9378	0.0311	24.0397	0.0186	24.0584	3.0195	0.0171	3.0367		3,147.4511	3,147.4511	0.0546	0.0797	3,172.5627
Total	1.5585	15.0535	12.5880	0.0875	25.8913	0.1774	26.0687	3.5517	0.1690	3.7207		9,190.6960	9,190.6960	0.2104	0.9604	9,482.1655

3.8 Gen-Tie 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	lb/day										lb/day					
Off-Road	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609
Total	1.0005	9.4849	9.4356	0.0234		0.3934	0.3934		0.3620	0.3620		2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.0000e-004	0.0283	5.0500e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8023	10.8023	4.3000e-004	1.7100e-003	11.3234
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1971	0.8738	1.7272	7.8900e-003	12.4711	0.0111	12.4822	1.3620	0.0105	1.3725		815.6255	815.6255	0.0169	0.0584	833.4374

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	lb/day										lb/day					
Off-Road	0.5913	3.8481	12.3890	0.0234		0.1720	0.1720		0.1602	0.1602	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609
Total	0.5913	3.8481	12.3890	0.0234		0.1720	0.1720		0.1602	0.1602	0.0000	2,260.1861	2,260.1861	0.7310		2,278.4609

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	6.0000e-004	0.0283	5.0500e-003	1.0000e-004	2.6700e-003	2.3000e-004	2.9000e-003	7.3000e-004	2.2000e-004	9.5000e-004		10.8023	10.8023	4.3000e-004	1.7100e-003	11.3234
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1971	0.8738	1.7272	7.8900e-003	3.9414	0.0111	3.9525	0.5104	0.0105	0.5209		815.6255	815.6255	0.0169	0.0584	833.4374

3.9 Energy Storage 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	lb/day										lb/day					
Off-Road	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250
Total	1.2354	15.3631	12.7676	0.0262		0.5474	0.5474		0.5036	0.5036		2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.3000e-004	0.0203	3.6100e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7159	7.7159	3.1000e-004	1.2200e-003	8.0882
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	12.3761	2.9800e-003	12.3790	1.3347	2.7400e-003	1.3375		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1969	0.8657	1.7257	7.8600e-003	12.4703	0.0111	12.4814	1.3618	0.0105	1.3723		812.5391	812.5391	0.0168	0.0579	830.2022

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	lb/day										lb/day					
Off-Road	0.6552	6.2985	14.7621	0.0262		0.1992	0.1992		0.1859	0.1859	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250
Total	0.6552	6.2985	14.7621	0.0262		0.1992	0.1992		0.1859	0.1859	0.0000	2,535.1272	2,535.1272	0.8199		2,555.6250

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.3000e-004	0.0203	3.6100e-003	7.0000e-005	1.9100e-003	1.6000e-004	2.0700e-003	5.2000e-004	1.6000e-004	6.8000e-004		7.7159	7.7159	3.1000e-004	1.2200e-003	8.0882
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.1725	0.1385	1.5901	4.9800e-003	3.8464	2.9800e-003	3.8493	0.4831	2.7400e-003	0.4859		503.5922	503.5922	8.7400e-003	0.0128	507.6100
Total	0.1969	0.8657	1.7257	7.8600e-003	3.9406	0.0111	3.9517	0.5102	0.0105	0.5207		812.5391	812.5391	0.0168	0.0579	830.2022

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Off-Road	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755
Total	0.4846	6.1862	3.1089	8.6900e-003		0.2017	0.2017		0.1856	0.1856		841.6702	841.6702	0.2722		848.4755

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.5600e-003	0.0739	0.0132	2.6000e-004	6.9800e-003	6.0000e-004	7.5800e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1798	28.1798	1.1300e-003	4.4700e-003	29.5393
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.2804	0.2250	2.5838	8.1000e-003	20.1111	4.8400e-003	20.1160	2.1689	4.4600e-003	2.1734		818.3373	818.3373	0.0142	0.0207	824.8663
Total	0.3059	1.0059	2.7291	0.0112	20.2104	0.0134	20.2238	2.1974	0.0126	2.2100		1,147.7481	1,147.7481	0.0231	0.0691	1,168.9096

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	lb/day										lb/day					
Off-Road	0.4659	6.4198	3.2912	8.6900e-003		0.1706	0.1706		0.1572	0.1572	0.0000	841.6702	841.6702	0.2722		848.4755
Total	0.4659	6.4198	3.2912	8.6900e-003		0.1706	0.1706		0.1572	0.1572	0.0000	841.6702	841.6702	0.2722		848.4755

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.5600e-003	0.0739	0.0132	2.6000e-004	6.9800e-003	6.0000e-004	7.5800e-003	1.9100e-003	5.7000e-004	2.4800e-003		28.1798	28.1798	1.1300e-003	4.4700e-003	29.5393
Vendor	0.0240	0.7070	0.1321	2.8100e-003	0.0924	7.9200e-003	0.1003	0.0265	7.5700e-003	0.0341		301.2310	301.2310	7.7500e-003	0.0439	314.5040
Worker	0.2804	0.2250	2.5838	8.1000e-003	6.2503	4.8400e-003	6.2552	0.7851	4.4600e-003	0.7895		818.3373	818.3373	0.0142	0.0207	824.8663
Total	0.3059	1.0059	2.7291	0.0112	6.3497	0.0134	6.3630	0.8135	0.0126	0.8261		1,147.7481	1,147.7481	0.0231	0.0691	1,168.9096

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Unmitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

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Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant. YSAQMD jurisdiction only.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

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tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	4-20-2022	7-19-2022	0.0055	0.0055
5	7-20-2022	9-30-2022	0.0040	0.0040
		Highest	0.0055	0.0055

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	

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4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rollers	0	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	0	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	0	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29

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Underground Work (Utilities)	Excavators	0	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	0	8.00	8	0.43
Underground Work (Utilities)	Rollers	0	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Cranes	0	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	0	8.00	150	0.38
System Installation	Other Construction Equipment	0	8.00	172	0.42
System Installation	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	0	8.00	63	0.31
Substation & Switchyard	Cranes	0	8.00	231	0.29
Substation & Switchyard	Excavators	0	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20
Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	0	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	0	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	0	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	0	8.00	221	0.50
Gen-Tie Construction	Cranes	0	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	0	8.00	125	0.38
Energy Storage System	Cranes	0	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Storage System	Graders	0	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	0	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	0	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	0	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	0	8.00	65	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	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	0	0.00	0.00	16.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	14.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
System Installation	0	0.00	0.00	26.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Substation & Switchyard	0	0.00	0.00	20.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Clean Up	0	0.00	0.00	8.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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					0.0326	0.0000	0.0326	3.5200e-003	0.0000	3.5200e-003	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	0.0326	0.0000	0.0326	3.5200e-003	0.0000	3.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

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3.2 Site Preparation - 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					
Fugitive Dust					0.0147	0.0000	0.0147	1.5800e-003	0.0000	1.5800e-003	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	0.0147	0.0000	0.0147	1.5800e-003	0.0000	1.5800e-003	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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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					0.0000	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
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

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	2.3800e-003	3.9000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8586	0.8586	3.0000e-005	1.4000e-004	0.9001
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	5.0000e-005	2.3800e-003	3.9000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8586	0.8586	3.0000e-005	1.4000e-004	0.9001

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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					
Fugitive Dust					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
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	5.0000e-005	2.3800e-003	3.9000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8586	0.8586	3.0000e-005	1.4000e-004	0.9001
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	5.0000e-005	2.3800e-003	3.9000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8586	0.8586	3.0000e-005	1.4000e-004	0.9001

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	0.0000	0.0000	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

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	4.0000e-005	2.0800e-003	3.4000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7513	0.7513	3.0000e-005	1.2000e-004	0.7876
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	4.0000e-005	2.0800e-003	3.4000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7513	0.7513	3.0000e-005	1.2000e-004	0.7876

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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					
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	4.0000e-005	2.0800e-003	3.4000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7513	0.7513	3.0000e-005	1.2000e-004	0.7876
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	4.0000e-005	2.0800e-003	3.4000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7513	0.7513	3.0000e-005	1.2000e-004	0.7876

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	0.0000	0.0000	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

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	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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					
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	0.0000	0.0000	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

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	8.0000e-005	3.8700e-003	6.3000e-004	1.0000e-005	3.7000e-004	3.0000e-005	4.1000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.3953	1.3953	6.0000e-005	2.2000e-004	1.4626
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	8.0000e-005	3.8700e-003	6.3000e-004	1.0000e-005	3.7000e-004	3.0000e-005	4.1000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.3953	1.3953	6.0000e-005	2.2000e-004	1.4626

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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					
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	8.0000e-005	3.8700e-003	6.3000e-004	1.0000e-005	3.7000e-004	3.0000e-005	4.1000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.3953	1.3953	6.0000e-005	2.2000e-004	1.4626
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	8.0000e-005	3.8700e-003	6.3000e-004	1.0000e-005	3.7000e-004	3.0000e-005	4.1000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.3953	1.3953	6.0000e-005	2.2000e-004	1.4626

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	0.0000	0.0000	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

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	6.0000e-005	2.9800e-003	4.9000e-004	1.0000e-005	2.9000e-004	3.0000e-005	3.1000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0733	1.0733	4.0000e-005	1.7000e-004	1.1251
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	6.0000e-005	2.9800e-003	4.9000e-004	1.0000e-005	2.9000e-004	3.0000e-005	3.1000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0733	1.0733	4.0000e-005	1.7000e-004	1.1251

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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					
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	6.0000e-005	2.9800e-003	4.9000e-004	1.0000e-005	2.9000e-004	3.0000e-005	3.1000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0733	1.0733	4.0000e-005	1.7000e-004	1.1251
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	6.0000e-005	2.9800e-003	4.9000e-004	1.0000e-005	2.9000e-004	3.0000e-005	3.1000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0733	1.0733	4.0000e-005	1.7000e-004	1.1251

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	0.0000	0.0000	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

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	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie Construction - 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					
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage 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					
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

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	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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					
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125
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	1.0000e-005	3.0000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1073	0.1073	0.0000	2.0000e-005	0.1125

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	0.0000	0.0000	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

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	2.0000e-005	1.1900e-003	1.9000e-004	0.0000	1.1000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4293	0.4293	2.0000e-005	7.0000e-005	0.4500
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	2.0000e-005	1.1900e-003	1.9000e-004	0.0000	1.1000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4293	0.4293	2.0000e-005	7.0000e-005	0.4500

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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					
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	2.0000e-005	1.1900e-003	1.9000e-004	0.0000	1.1000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4293	0.4293	2.0000e-005	7.0000e-005	0.4500
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	2.0000e-005	1.1900e-003	1.9000e-004	0.0000	1.1000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4293	0.4293	2.0000e-005	7.0000e-005	0.4500

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Unmitigated	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3704	3.0000e-005	0.0000	0.3725
Unmitigated	0.3704	3.0000e-005	0.0000	0.3725

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9541	0.0564	0.0000	2.3636
Unmitigated	0.9541	0.0564	0.0000	2.3636

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant. YSAQMD jurisdiction only.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rollers	0	8.00	80	0.38

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	0	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	0	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	0	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	0	8.00	8	0.43
Underground Work (Utilities)	Rollers	0	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Cranes	0	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	0	8.00	150	0.38
System Installation	Other Construction Equipment	0	8.00	172	0.42
System Installation	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	0	8.00	63	0.31
Substation & Switchyard	Cranes	0	8.00	231	0.29
Substation & Switchyard	Excavators	0	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	0	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	0	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	0	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	0	8.00	221	0.50
Gen-Tie Construction	Cranes	0	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	0	8.00	125	0.38
Energy Storage System	Cranes	0	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	0	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	0	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	0	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	0	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	0	8.00	65	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	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	0	0.00	0.00	16.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	14.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
System Installation	0	0.00	0.00	26.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	0	0.00	0.00	20.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	0	0.00	0.00	8.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			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
Total	0.0000	0.0000	0.0000	0.0000	1.5908	0.0000	1.5908	0.1718	0.0000	0.1718		0.0000	0.0000	0.0000		0.0000

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	3.1000e-004	0.0137	2.3600e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7711	5.7711	2.3000e-004	9.1000e-004	6.0496
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
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
Total	3.1000e-004	0.0137	2.3600e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7711	5.7711	2.3000e-004	9.1000e-004	6.0496

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	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			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
Total	0.0000	0.0000	0.0000	0.0000	0.7158	0.0000	0.7158	0.0773	0.0000	0.0773	0.0000	0.0000	0.0000	0.0000		0.0000

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	3.1000e-004	0.0137	2.3600e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7711	5.7711	2.3000e-004	9.1000e-004	6.0496
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
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
Total	3.1000e-004	0.0137	2.3600e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7711	5.7711	2.3000e-004	9.1000e-004	6.0496

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	5.0300e-003	0.2243	0.0387	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6459	94.6459	3.8300e-003	0.0150	99.2126
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
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
Total	5.0300e-003	0.2243	0.0387	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6459	94.6459	3.8300e-003	0.0150	99.2126

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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	5.0300e-003	0.2243	0.0387	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6459	94.6459	3.8300e-003	0.0150	99.2126
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
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
Total	5.0300e-003	0.2243	0.0387	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6459	94.6459	3.8300e-003	0.0150	99.2126

3.4 Demolition - 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	lb/day										lb/day					
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
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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	8.8100e-003	0.3926	0.0677	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.3900e-003	0.0148		165.6302	165.6302	6.7000e-003	0.0263	173.6220
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
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
Total	8.8100e-003	0.3926	0.0677	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.3900e-003	0.0148		165.6302	165.6302	6.7000e-003	0.0263	173.6220

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	8.8100e-003	0.3926	0.0677	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.3900e-003	0.0148		165.6302	165.6302	6.7000e-003	0.0263	173.6220
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
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
Total	8.8100e-003	0.3926	0.0677	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.3900e-003	0.0148		165.6302	165.6302	6.7000e-003	0.0263	173.6220

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
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
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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	6.3000e-004	0.0280	4.8300e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8307	11.8307	4.8000e-004	1.8800e-003	12.4016
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
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
Total	6.3000e-004	0.0280	4.8300e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8307	11.8307	4.8000e-004	1.8800e-003	12.4016

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	6.3000e-004	0.0280	4.8300e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8307	11.8307	4.8000e-004	1.8800e-003	12.4016
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
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
Total	6.3000e-004	0.0280	4.8300e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8307	11.8307	4.8000e-004	1.8800e-003	12.4016

3.6 System Installation - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.8800e-003	0.0838	0.0144	3.2000e-004	8.8600e-003	7.6000e-004	9.6100e-003	2.4300e-003	7.2000e-004	3.1500e-003		35.3562	35.3562	1.4300e-003	5.6000e-003	37.0622
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
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
Total	1.8800e-003	0.0838	0.0144	3.2000e-004	8.8600e-003	7.6000e-004	9.6100e-003	2.4300e-003	7.2000e-004	3.1500e-003		35.3562	35.3562	1.4300e-003	5.6000e-003	37.0622

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.8800e-003	0.0838	0.0144	3.2000e-004	8.8600e-003	7.6000e-004	9.6100e-003	2.4300e-003	7.2000e-004	3.1500e-003		35.3562	35.3562	1.4300e-003	5.6000e-003	37.0622
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
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
Total	1.8800e-003	0.0838	0.0144	3.2000e-004	8.8600e-003	7.6000e-004	9.6100e-003	2.4300e-003	7.2000e-004	3.1500e-003		35.3562	35.3562	1.4300e-003	5.6000e-003	37.0622

3.7 Substation & Switchyard - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.4500e-003	0.0645	0.0111	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1971	27.1971	1.1000e-003	4.3100e-003	28.5094
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
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
Total	1.4500e-003	0.0645	0.0111	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1971	27.1971	1.1000e-003	4.3100e-003	28.5094

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.4500e-003	0.0645	0.0111	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1971	27.1971	1.1000e-003	4.3100e-003	28.5094
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
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
Total	1.4500e-003	0.0645	0.0111	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1971	27.1971	1.1000e-003	4.3100e-003	28.5094

3.8 Gen-Tie 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	8.4000e-004	0.0374	6.4400e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7743	15.7743	6.4000e-004	2.5000e-003	16.5354
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
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
Total	8.4000e-004	0.0374	6.4400e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7743	15.7743	6.4000e-004	2.5000e-003	16.5354

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	8.4000e-004	0.0374	6.4400e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7743	15.7743	6.4000e-004	2.5000e-003	16.5354
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
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
Total	8.4000e-004	0.0374	6.4400e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7743	15.7743	6.4000e-004	2.5000e-003	16.5354

3.9 Energy Storage 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	6.0000e-004	0.0267	4.6000e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2674	11.2674	4.6000e-004	1.7900e-003	11.8110
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
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
Total	6.0000e-004	0.0267	4.6000e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2674	11.2674	4.6000e-004	1.7900e-003	11.8110

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	6.0000e-004	0.0267	4.6000e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2674	11.2674	4.6000e-004	1.7900e-003	11.8110
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
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
Total	6.0000e-004	0.0267	4.6000e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2674	11.2674	4.6000e-004	1.7900e-003	11.8110

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	2.1900e-003	0.0975	0.0168	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1504	41.1504	1.6600e-003	6.5200e-003	43.1359
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
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
Total	2.1900e-003	0.0975	0.0168	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1504	41.1504	1.6600e-003	6.5200e-003	43.1359

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	2.1900e-003	0.0975	0.0168	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1504	41.1504	1.6600e-003	6.5200e-003	43.1359
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
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
Total	2.1900e-003	0.0975	0.0168	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1504	41.1504	1.6600e-003	6.5200e-003	43.1359

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Unmitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant. YSAQMD jurisdiction only.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblGrading	AcresOfGrading	0.00	61.50
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rollers	0	8.00	80	0.38

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	0	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	0	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	0	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	0	8.00	8	0.43
Underground Work (Utilities)	Rollers	0	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Cranes	0	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	0	8.00	150	0.38
System Installation	Other Construction Equipment	0	8.00	172	0.42
System Installation	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	0	8.00	63	0.31
Substation & Switchyard	Cranes	0	8.00	231	0.29
Substation & Switchyard	Excavators	0	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	0	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	0	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	0	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	0	8.00	221	0.50
Gen-Tie Construction	Cranes	0	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	0	8.00	125	0.38
Energy Storage System	Cranes	0	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	0	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	0	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	0	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	0	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	0	8.00	65	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	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	0	0.00	0.00	16.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	14.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
System Installation	0	0.00	0.00	26.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	0	0.00	0.00	20.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	0	0.00	0.00	2.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	0	0.00	0.00	8.00	50.00	50.00	34.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			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
Total	0.0000	0.0000	0.0000	0.0000	1.5908	0.0000	1.5908	0.1718	0.0000	0.1718		0.0000	0.0000	0.0000		0.0000

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	3.0000e-004	0.0148	2.3900e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7716	5.7716	2.3000e-004	9.1000e-004	6.0501
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
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
Total	3.0000e-004	0.0148	2.3900e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7716	5.7716	2.3000e-004	9.1000e-004	6.0501

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	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			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
Total	0.0000	0.0000	0.0000	0.0000	0.7158	0.0000	0.7158	0.0773	0.0000	0.0773	0.0000	0.0000	0.0000	0.0000		0.0000

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	3.0000e-004	0.0148	2.3900e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7716	5.7716	2.3000e-004	9.1000e-004	6.0501
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
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
Total	3.0000e-004	0.0148	2.3900e-003	5.0000e-005	1.4500e-003	1.2000e-004	1.5700e-003	4.0000e-004	1.2000e-004	5.1000e-004		5.7716	5.7716	2.3000e-004	9.1000e-004	6.0501

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	4.9400e-003	0.2428	0.0392	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6540	94.6540	3.8200e-003	0.0150	99.2212
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
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
Total	4.9400e-003	0.2428	0.0392	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6540	94.6540	3.8200e-003	0.0150	99.2212

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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	4.9400e-003	0.2428	0.0392	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6540	94.6540	3.8200e-003	0.0150	99.2212
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
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
Total	4.9400e-003	0.2428	0.0392	8.7000e-004	0.0237	2.0300e-003	0.0257	6.4900e-003	1.9400e-003	8.4300e-003		94.6540	94.6540	3.8200e-003	0.0150	99.2212

3.4 Demolition - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	8.6500e-003	0.4249	0.0686	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.4000e-003	0.0148		165.6444	165.6444	6.6900e-003	0.0263	173.6371
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
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
Total	8.6500e-003	0.4249	0.0686	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.4000e-003	0.0148		165.6444	165.6444	6.6900e-003	0.0263	173.6371

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	8.6500e-003	0.4249	0.0686	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.4000e-003	0.0148		165.6444	165.6444	6.6900e-003	0.0263	173.6371
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
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
Total	8.6500e-003	0.4249	0.0686	1.5200e-003	0.0415	3.5500e-003	0.0450	0.0114	3.4000e-003	0.0148		165.6444	165.6444	6.6900e-003	0.0263	173.6371

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	6.2000e-004	0.0304	4.9000e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8317	11.8317	4.8000e-004	1.8800e-003	12.4027
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
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
Total	6.2000e-004	0.0304	4.9000e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8317	11.8317	4.8000e-004	1.8800e-003	12.4027

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	6.2000e-004	0.0304	4.9000e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8317	11.8317	4.8000e-004	1.8800e-003	12.4027
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
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
Total	6.2000e-004	0.0304	4.9000e-003	1.1000e-004	2.9600e-003	2.5000e-004	3.2200e-003	8.1000e-004	2.4000e-004	1.0500e-003		11.8317	11.8317	4.8000e-004	1.8800e-003	12.4027

3.6 System Installation - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.8500e-003	0.0907	0.0146	3.2000e-004	8.8600e-003	7.6000e-004	9.6200e-003	2.4300e-003	7.3000e-004	3.1500e-003		35.3592	35.3592	1.4300e-003	5.6100e-003	37.0654
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
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
Total	1.8500e-003	0.0907	0.0146	3.2000e-004	8.8600e-003	7.6000e-004	9.6200e-003	2.4300e-003	7.3000e-004	3.1500e-003		35.3592	35.3592	1.4300e-003	5.6100e-003	37.0654

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.8500e-003	0.0907	0.0146	3.2000e-004	8.8600e-003	7.6000e-004	9.6200e-003	2.4300e-003	7.3000e-004	3.1500e-003		35.3592	35.3592	1.4300e-003	5.6100e-003	37.0654
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
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
Total	1.8500e-003	0.0907	0.0146	3.2000e-004	8.8600e-003	7.6000e-004	9.6200e-003	2.4300e-003	7.3000e-004	3.1500e-003		35.3592	35.3592	1.4300e-003	5.6100e-003	37.0654

3.7 Substation & Switchyard - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.4200e-003	0.0698	0.0113	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1994	27.1994	1.1000e-003	4.3100e-003	28.5118
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
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
Total	1.4200e-003	0.0698	0.0113	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1994	27.1994	1.1000e-003	4.3100e-003	28.5118

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	1.4200e-003	0.0698	0.0113	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1994	27.1994	1.1000e-003	4.3100e-003	28.5118
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
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
Total	1.4200e-003	0.0698	0.0113	2.5000e-004	6.8100e-003	5.8000e-004	7.4000e-003	1.8700e-003	5.6000e-004	2.4200e-003		27.1994	27.1994	1.1000e-003	4.3100e-003	28.5118

3.8 Gen-Tie 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	8.2000e-004	0.0405	6.5300e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7757	15.7757	6.4000e-004	2.5000e-003	16.5369
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
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
Total	8.2000e-004	0.0405	6.5300e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7757	15.7757	6.4000e-004	2.5000e-003	16.5369

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	8.2000e-004	0.0405	6.5300e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7757	15.7757	6.4000e-004	2.5000e-003	16.5369
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
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
Total	8.2000e-004	0.0405	6.5300e-003	1.4000e-004	3.9500e-003	3.4000e-004	4.2900e-003	1.0800e-003	3.2000e-004	1.4100e-003		15.7757	15.7757	6.4000e-004	2.5000e-003	16.5369

3.9 Energy Storage 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	5.9000e-004	0.0289	4.6600e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2683	11.2683	4.5000e-004	1.7900e-003	11.8120
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
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
Total	5.9000e-004	0.0289	4.6600e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2683	11.2683	4.5000e-004	1.7900e-003	11.8120

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	5.9000e-004	0.0289	4.6600e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2683	11.2683	4.5000e-004	1.7900e-003	11.8120
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
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
Total	5.9000e-004	0.0289	4.6600e-003	1.0000e-004	2.8200e-003	2.4000e-004	3.0600e-003	7.7000e-004	2.3000e-004	1.0000e-003		11.2683	11.2683	4.5000e-004	1.7900e-003	11.8120

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	2.1500e-003	0.1056	0.0170	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1539	41.1539	1.6600e-003	6.5200e-003	43.1396
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
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
Total	2.1500e-003	0.1056	0.0170	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1539	41.1539	1.6600e-003	6.5200e-003	43.1396

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	2.1500e-003	0.1056	0.0170	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1539	41.1539	1.6600e-003	6.5200e-003	43.1396
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
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
Total	2.1500e-003	0.1056	0.0170	3.8000e-004	0.0103	8.8000e-004	0.0112	2.8200e-003	8.4000e-004	3.6700e-003		41.1539	41.1539	1.6600e-003	6.5200e-003	43.1396

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Unmitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Unmitigated with BACT Control - YSAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant. BAAQMD jurisdiction only.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblGrading	AcresOfGrading	0.00	61.50
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	4-20-2022	7-19-2022	0.0035	0.0035
5	7-20-2022	9-30-2022	0.0026	0.0026
		Highest	0.0035	0.0035

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	82.4875	82.4875	7.6000e-003	9.2000e-004	82.9523
Mobile	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3704	0.3704	3.0000e-005	0.0000	0.3725
Total	0.0274	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.9541	93.5423	94.4963	0.0647	1.4400e-003	96.5465

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rollers	0	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	0	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	0	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Underground Work (Utilities)	Excavators	0	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	0	8.00	8	0.43
Underground Work (Utilities)	Rollers	0	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Cranes	0	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	0	8.00	150	0.38
System Installation	Other Construction Equipment	0	8.00	172	0.42
System Installation	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	0	8.00	63	0.31
Substation & Switchyard	Cranes	0	8.00	231	0.29
Substation & Switchyard	Excavators	0	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20
Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	0	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	0	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	0	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	0	8.00	221	0.50
Gen-Tie Construction	Cranes	0	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	0	8.00	125	0.38
Energy Storage System	Cranes	0	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Storage System	Graders	0	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	0	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	0	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	0	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	0	8.00	65	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	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	0	0.00	0.00	16.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	14.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
System Installation	0	0.00	0.00	26.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Substation & Switchyard	0	0.00	0.00	20.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Clean Up	0	0.00	0.00	8.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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					0.0326	0.0000	0.0326	3.5200e-003	0.0000	3.5200e-003	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	0.0326	0.0000	0.0326	3.5200e-003	0.0000	3.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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					
Fugitive Dust					0.0147	0.0000	0.0147	1.5800e-003	0.0000	1.5800e-003	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	0.0147	0.0000	0.0147	1.5800e-003	0.0000	1.5800e-003	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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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					0.0000	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
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

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	3.0000e-005	1.5400e-003	2.8000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5387	0.5387	2.0000e-005	9.0000e-005	0.5647
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	3.0000e-005	1.5400e-003	2.8000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5387	0.5387	2.0000e-005	9.0000e-005	0.5647

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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					
Fugitive Dust					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
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	3.0000e-005	1.5400e-003	2.8000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5387	0.5387	2.0000e-005	9.0000e-005	0.5647
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	3.0000e-005	1.5400e-003	2.8000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5387	0.5387	2.0000e-005	9.0000e-005	0.5647

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	0.0000	0.0000	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

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	3.0000e-005	1.3500e-003	2.5000e-004	0.0000	1.2000e-004	1.0000e-005	1.4000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4714	0.4714	2.0000e-005	7.0000e-005	0.4941
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	3.0000e-005	1.3500e-003	2.5000e-004	0.0000	1.2000e-004	1.0000e-005	1.4000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4714	0.4714	2.0000e-005	7.0000e-005	0.4941

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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					
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	3.0000e-005	1.3500e-003	2.5000e-004	0.0000	1.2000e-004	1.0000e-005	1.4000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4714	0.4714	2.0000e-005	7.0000e-005	0.4941
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	3.0000e-005	1.3500e-003	2.5000e-004	0.0000	1.2000e-004	1.0000e-005	1.4000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4714	0.4714	2.0000e-005	7.0000e-005	0.4941

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	0.0000	0.0000	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

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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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					
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	0.0000	0.0000	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

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	6.0000e-005	2.5000e-003	4.6000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8754	0.8754	4.0000e-005	1.4000e-004	0.9177
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	6.0000e-005	2.5000e-003	4.6000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8754	0.8754	4.0000e-005	1.4000e-004	0.9177

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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					
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	6.0000e-005	2.5000e-003	4.6000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8754	0.8754	4.0000e-005	1.4000e-004	0.9177
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	6.0000e-005	2.5000e-003	4.6000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8754	0.8754	4.0000e-005	1.4000e-004	0.9177

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	0.0000	0.0000	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

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	4.0000e-005	1.9200e-003	3.5000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.6734	0.6734	3.0000e-005	1.1000e-004	0.7059
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	4.0000e-005	1.9200e-003	3.5000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.6734	0.6734	3.0000e-005	1.1000e-004	0.7059

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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					
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	4.0000e-005	1.9200e-003	3.5000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.6734	0.6734	3.0000e-005	1.1000e-004	0.7059
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	4.0000e-005	1.9200e-003	3.5000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.6734	0.6734	3.0000e-005	1.1000e-004	0.7059

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	0.0000	0.0000	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

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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie Construction - 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					
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage 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					
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

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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

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3.9 Energy Storage System - 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					
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706
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	1.9000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0706

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	0.0000	0.0000	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

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	2.0000e-005	7.7000e-004	1.4000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2694	0.2694	1.0000e-005	4.0000e-005	0.2824
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	2.0000e-005	7.7000e-004	1.4000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2694	0.2694	1.0000e-005	4.0000e-005	0.2824

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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					
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	2.0000e-005	7.7000e-004	1.4000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2694	0.2694	1.0000e-005	4.0000e-005	0.2824
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	2.0000e-005	7.7000e-004	1.4000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2694	0.2694	1.0000e-005	4.0000e-005	0.2824

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580
Unmitigated	5.5800e-003	7.9200e-003	0.0547	1.2000e-004	0.0116	9.0000e-005	0.0117	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	10.6843	10.6843	7.1000e-004	5.2000e-004	10.8580

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	508000	82.4875	7.6000e-003	9.2000e-004	82.9523
Total		82.4875	7.6000e-003	9.2000e-004	82.9523

6.0 Area Detail

6.1 Mitigation Measures Area

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0219	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3704	3.0000e-005	0.0000	0.3725
Unmitigated	0.3704	3.0000e-005	0.0000	0.3725

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0.651703	0.3704	3.0000e-005	0.0000	0.3725
Total		0.3704	3.0000e-005	0.0000	0.3725

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9541	0.0564	0.0000	2.3636
Unmitigated	0.9541	0.0564	0.0000	2.3636

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
Total		0.9541	0.0564	0.0000	2.3636

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant. BAAQMD jurisdiction only.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblGrading	AcresOfGrading	0.00	61.50
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Total	0.1568	0.0400	0.3290	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5471	69.5471	4.1000e-003	3.0400e-003	70.5566

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rollers	0	8.00	80	0.38

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	0	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	0	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	0	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	0	8.00	8	0.43
Underground Work (Utilities)	Rollers	0	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Cranes	0	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	0	8.00	150	0.38
System Installation	Other Construction Equipment	0	8.00	172	0.42
System Installation	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	0	8.00	63	0.31
Substation & Switchyard	Cranes	0	8.00	231	0.29
Substation & Switchyard	Excavators	0	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	0	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	0	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	0	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	0	8.00	221	0.50
Gen-Tie Construction	Cranes	0	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	0	8.00	125	0.38
Energy Storage System	Cranes	0	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	0	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	0	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	0	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	0	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	0	8.00	65	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	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	0	0.00	0.00	16.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	14.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
System Installation	0	0.00	0.00	26.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	0	0.00	0.00	20.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	0	0.00	0.00	8.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			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
Total	0.0000	0.0000	0.0000	0.0000	1.5908	0.0000	1.5908	0.1718	0.0000	0.1718		0.0000	0.0000	0.0000		0.0000

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.1000e-004	8.8500e-003	1.7100e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6207	3.6207	1.5000e-004	5.7000e-004	3.7954
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
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
Total	2.1000e-004	8.8500e-003	1.7100e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6207	3.6207	1.5000e-004	5.7000e-004	3.7954

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	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			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
Total	0.0000	0.0000	0.0000	0.0000	0.7158	0.0000	0.7158	0.0773	0.0000	0.0773	0.0000	0.0000	0.0000	0.0000		0.0000

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.1000e-004	8.8500e-003	1.7100e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6207	3.6207	1.5000e-004	5.7000e-004	3.7954
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
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
Total	2.1000e-004	8.8500e-003	1.7100e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6207	3.6207	1.5000e-004	5.7000e-004	3.7954

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.4500e-003	0.1452	0.0281	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2000e-003	5.2200e-003		59.3799	59.3799	2.3900e-003	9.4100e-003	62.2445
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
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
Total	3.4500e-003	0.1452	0.0281	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2000e-003	5.2200e-003		59.3799	59.3799	2.3900e-003	9.4100e-003	62.2445

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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.4500e-003	0.1452	0.0281	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2000e-003	5.2200e-003		59.3799	59.3799	2.3900e-003	9.4100e-003	62.2445
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
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
Total	3.4500e-003	0.1452	0.0281	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2000e-003	5.2200e-003		59.3799	59.3799	2.3900e-003	9.4100e-003	62.2445

3.4 Demolition - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.0300e-003	0.2540	0.0492	9.5000e-004	0.0256	2.2000e-003	0.0278	7.0200e-003	2.1100e-003	9.1300e-003		103.9149	103.9149	4.1800e-003	0.0165	108.9279
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
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
Total	6.0300e-003	0.2540	0.0492	9.5000e-004	0.0256	2.2000e-003	0.0278	7.0200e-003	2.1100e-003	9.1300e-003		103.9149	103.9149	4.1800e-003	0.0165	108.9279

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	6.0300e-003	0.2540	0.0492	9.5000e-004	0.0256	2.2000e-003	0.0278	7.0200e-003	2.1100e-003	9.1300e-003		103.9149	103.9149	4.1800e-003	0.0165	108.9279
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
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
Total	6.0300e-003	0.2540	0.0492	9.5000e-004	0.0256	2.2000e-003	0.0278	7.0200e-003	2.1100e-003	9.1300e-003		103.9149	103.9149	4.1800e-003	0.0165	108.9279

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.3000e-004	0.0182	3.5100e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4225	7.4225	3.0000e-004	1.1800e-003	7.7806
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
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
Total	4.3000e-004	0.0182	3.5100e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4225	7.4225	3.0000e-004	1.1800e-003	7.7806

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.3000e-004	0.0182	3.5100e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4225	7.4225	3.0000e-004	1.1800e-003	7.7806
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
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
Total	4.3000e-004	0.0182	3.5100e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4225	7.4225	3.0000e-004	1.1800e-003	7.7806

3.6 System Installation - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.2900e-003	0.0542	0.0105	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1822	22.1822	8.9000e-004	3.5200e-003	23.2523
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
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
Total	1.2900e-003	0.0542	0.0105	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1822	22.1822	8.9000e-004	3.5200e-003	23.2523

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.2900e-003	0.0542	0.0105	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1822	22.1822	8.9000e-004	3.5200e-003	23.2523
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
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
Total	1.2900e-003	0.0542	0.0105	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1822	22.1822	8.9000e-004	3.5200e-003	23.2523

3.7 Substation & Switchyard - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	9.9000e-004	0.0417	8.0800e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0632	17.0632	6.9000e-004	2.7000e-003	17.8864
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
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
Total	9.9000e-004	0.0417	8.0800e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0632	17.0632	6.9000e-004	2.7000e-003	17.8864

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	9.9000e-004	0.0417	8.0800e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0632	17.0632	6.9000e-004	2.7000e-003	17.8864
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
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
Total	9.9000e-004	0.0417	8.0800e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0632	17.0632	6.9000e-004	2.7000e-003	17.8864

3.8 Gen-Tie 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	5.7000e-004	0.0242	4.6900e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8967	9.8967	4.0000e-004	1.5700e-003	10.3741
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
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
Total	5.7000e-004	0.0242	4.6900e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8967	9.8967	4.0000e-004	1.5700e-003	10.3741

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	5.7000e-004	0.0242	4.6900e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8967	9.8967	4.0000e-004	1.5700e-003	10.3741
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
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
Total	5.7000e-004	0.0242	4.6900e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8967	9.8967	4.0000e-004	1.5700e-003	10.3741

3.9 Energy Storage 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.1000e-004	0.0173	3.3500e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0690	7.0690	2.8000e-004	1.1200e-003	7.4101
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
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
Total	4.1000e-004	0.0173	3.3500e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0690	7.0690	2.8000e-004	1.1200e-003	7.4101

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.1000e-004	0.0173	3.3500e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0690	7.0690	2.8000e-004	1.1200e-003	7.4101
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
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
Total	4.1000e-004	0.0173	3.3500e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0690	7.0690	2.8000e-004	1.1200e-003	7.4101

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.5000e-003	0.0631	0.0122	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8174	25.8174	1.0400e-003	4.0900e-003	27.0628
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
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
Total	1.5000e-003	0.0631	0.0122	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8174	25.8174	1.0400e-003	4.0900e-003	27.0628

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.5000e-003	0.0631	0.0122	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8174	25.8174	1.0400e-003	4.0900e-003	27.0628
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
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
Total	1.5000e-003	0.0631	0.0122	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8174	25.8174	1.0400e-003	4.0900e-003	27.0628

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555
Unmitigated	0.0370	0.0400	0.3285	6.8000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		69.5460	69.5460	4.1000e-003	3.0400e-003	70.5555

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD

Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023.

Land Use - 400 acers based on total development area.

Construction Phase - Construction phasing information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

Off-road Equipment - Construction equipment information was provided by the project applicant.

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Off-road Equipment - Construction equipment information was provided by the project applicant.

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Construction trip information is based on data provided by the project applicant. BAAQMD jurisdiction only.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Vehicle Trips - Trip rates were modified to be consistent with the anticipated operation and maintenance activity of 10 trips per day.

Energy Use - Modified energy demand factors to account for an energy demand of 308 MW annually. The energy demand was provided by the project applicant.

Water And Wastewater - Outdoor watert use is consisitent with the WSA.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stablization and vehicle speed reduction as BACT control in compliance with SMAQMD Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstructionPhase	NumDays	240.00	41.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	400.00	10.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	87.00
tblConstructionPhase	NumDays	6,200.00	21.00
tblEnergyUse	NT24E	1.36	100.00

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	VendorTripLength	6.50	50.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	VendorTripNumber	1.00	0.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripLength	10.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tbITripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	2.00
tblVehicleTrips	SU_TR	1.74	2.00
tblVehicleTrips	WD_TR	1.74	2.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00
tblWater	OutdoorWaterUseRate	0.00	651,702.85

2.0 Emissions Summary

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

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	lb/day										lb/day					
Area	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
Mobile	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Total	0.1496	0.0464	0.3183	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5614	63.5614	4.5700e-003	3.3300e-003	64.6672

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	5/2/2022	6/27/2022	5	41	
2	Perimeter Fence Installation	Site Preparation	5/2/2022	5/27/2022	5	20	
3	Demolition	Demolition	5/16/2022	5/27/2022	5	10	
4	Underground Work (Utilities)	Trenching	6/1/2022	6/28/2022	5	20	
5	System Installation	Building Construction	7/1/2022	10/31/2022	5	87	
6	Substation & Switchyard	Building Construction	7/1/2022	10/31/2022	5	87	
7	Gen-Tie Construction	Trenching	11/1/2022	11/21/2022	5	15	
8	Energy Storage System	Building Construction	11/1/2022	11/29/2022	5	21	
9	Testing, Commissioning, Site Clean Up	Trenching	11/30/2022	12/30/2022	5	23	

Acres of Grading (Site Preparation Phase): 61.5

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
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rollers	0	8.00	80	0.38

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	150	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	0	8.00	100	0.40
Perimeter Fence Installation	Rubber Tired Dozers	0	0.00	247	0.40
Perimeter Fence Installation	Skid Steer Loaders	0	8.00	65	0.37
Perimeter Fence Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Underground Work (Utilities)	Cranes	0	0.00	231	0.29
Underground Work (Utilities)	Excavators	0	8.00	158	0.38
Underground Work (Utilities)	Plate Compactors	0	8.00	8	0.43
Underground Work (Utilities)	Rollers	0	8.00	80	0.38
Underground Work (Utilities)	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Cranes	0	8.00	231	0.29
System Installation	Forklifts	0	0.00	89	0.20
System Installation	Generator Sets	0	0.00	84	0.74
System Installation	Off-Highway Trucks	0	8.00	51	0.38
System Installation	Off-Highway Trucks	0	8.00	150	0.38
System Installation	Other Construction Equipment	0	8.00	172	0.42
System Installation	Rough Terrain Forklifts	0	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Installation	Welders	0	0.00	46	0.45
Substation & Switchyard	Aerial Lifts	0	8.00	63	0.31
Substation & Switchyard	Cranes	0	8.00	231	0.29
Substation & Switchyard	Excavators	0	8.00	158	0.38
Substation & Switchyard	Forklifts	0	0.00	89	0.20

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	Generator Sets	0	0.00	84	0.74
Substation & Switchyard	Off-Highway Trucks	0	8.00	150	0.38
Substation & Switchyard	Other Construction Equipment	0	8.00	370	0.42
Substation & Switchyard	Rough Terrain Forklifts	0	8.00	100	0.40
Substation & Switchyard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Substation & Switchyard	Welders	0	0.00	46	0.45
Gen-Tie Construction	Bore/Drill Rigs	0	8.00	221	0.50
Gen-Tie Construction	Cranes	0	8.00	231	0.29
Gen-Tie Construction	Off-Highway Trucks	0	8.00	125	0.38
Energy Storage System	Cranes	0	8.00	231	0.29
Energy Storage System	Forklifts	0	0.00	89	0.20
Energy Storage System	Generator Sets	0	0.00	84	0.74
Energy Storage System	Graders	0	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	0	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Energy Storage System	Welders	0	0.00	46	0.45
Testing, Commissioning, Site Clean Up	Graders	0	8.00	187	0.41
Testing, Commissioning, Site Clean Up	Off-Highway Trucks	0	8.00	100	0.38
Testing, Commissioning, Site Clean Up	Skid Steer Loaders	0	8.00	65	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	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence Installation	0	0.00	0.00	16.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	14.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Underground Work (Utilities)	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
System Installation	0	0.00	0.00	26.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation & Switchyard	0	0.00	0.00	20.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Gen-Tie Construction	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Energy Storage System	0	0.00	0.00	2.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT
Testing, Commissioning, Site Cle	0	0.00	0.00	8.00	50.00	50.00	21.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			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
Total	0.0000	0.0000	0.0000	0.0000	1.5908	0.0000	1.5908	0.1718	0.0000	0.1718		0.0000	0.0000	0.0000		0.0000

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.0000e-004	9.5600e-003	1.7500e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6212	3.6212	1.5000e-004	5.7000e-004	3.7959
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
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
Total	2.0000e-004	9.5600e-003	1.7500e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6212	3.6212	1.5000e-004	5.7000e-004	3.7959

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	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			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
Total	0.0000	0.0000	0.0000	0.0000	0.7158	0.0000	0.7158	0.0773	0.0000	0.0773	0.0000	0.0000	0.0000	0.0000		0.0000

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	2.0000e-004	9.5600e-003	1.7500e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6212	3.6212	1.5000e-004	5.7000e-004	3.7959
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
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
Total	2.0000e-004	9.5600e-003	1.7500e-003	3.0000e-005	8.9000e-004	8.0000e-005	9.7000e-004	2.4000e-004	7.0000e-005	3.2000e-004		3.6212	3.6212	1.5000e-004	5.7000e-004	3.7959

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.3600e-003	0.1568	0.0287	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2100e-003	5.2200e-003		59.3881	59.3881	2.3800e-003	9.4100e-003	62.2531
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
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
Total	3.3600e-003	0.1568	0.0287	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2100e-003	5.2200e-003		59.3881	59.3881	2.3800e-003	9.4100e-003	62.2531

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	lb/day										lb/day					
Fugitive Dust					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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Perimeter Fence Installation - 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	lb/day										lb/day					
Hauling	3.3600e-003	0.1568	0.0287	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2100e-003	5.2200e-003		59.3881	59.3881	2.3800e-003	9.4100e-003	62.2531
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
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
Total	3.3600e-003	0.1568	0.0287	5.4000e-004	0.0147	1.2600e-003	0.0159	4.0100e-003	1.2100e-003	5.2200e-003		59.3881	59.3881	2.3800e-003	9.4100e-003	62.2531

3.4 Demolition - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	5.8700e-003	0.2745	0.0502	9.5000e-004	0.0256	2.2100e-003	0.0279	7.0200e-003	2.1100e-003	9.1300e-003		103.9292	103.9292	4.1700e-003	0.0165	108.9429
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
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
Total	5.8700e-003	0.2745	0.0502	9.5000e-004	0.0256	2.2100e-003	0.0279	7.0200e-003	2.1100e-003	9.1300e-003		103.9292	103.9292	4.1700e-003	0.0165	108.9429

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Demolition - 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	lb/day										lb/day					
Hauling	5.8700e-003	0.2745	0.0502	9.5000e-004	0.0256	2.2100e-003	0.0279	7.0200e-003	2.1100e-003	9.1300e-003		103.9292	103.9292	4.1700e-003	0.0165	108.9429
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
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
Total	5.8700e-003	0.2745	0.0502	9.5000e-004	0.0256	2.2100e-003	0.0279	7.0200e-003	2.1100e-003	9.1300e-003		103.9292	103.9292	4.1700e-003	0.0165	108.9429

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.2000e-004	0.0196	3.5800e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4235	7.4235	3.0000e-004	1.1800e-003	7.7816
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
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
Total	4.2000e-004	0.0196	3.5800e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4235	7.4235	3.0000e-004	1.1800e-003	7.7816

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground Work (Utilities) - 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	lb/day										lb/day					
Hauling	4.2000e-004	0.0196	3.5800e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4235	7.4235	3.0000e-004	1.1800e-003	7.7816
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
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
Total	4.2000e-004	0.0196	3.5800e-003	7.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.0000e-004	1.5000e-004	6.5000e-004		7.4235	7.4235	3.0000e-004	1.1800e-003	7.7816

3.6 System Installation - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.2500e-003	0.0586	0.0107	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1852	22.1852	8.9000e-004	3.5200e-003	23.2555
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
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
Total	1.2500e-003	0.0586	0.0107	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1852	22.1852	8.9000e-004	3.5200e-003	23.2555

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 System Installation - 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	lb/day										lb/day					
Hauling	1.2500e-003	0.0586	0.0107	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1852	22.1852	8.9000e-004	3.5200e-003	23.2555
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
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
Total	1.2500e-003	0.0586	0.0107	2.0000e-004	5.4700e-003	4.7000e-004	5.9400e-003	1.5000e-003	4.5000e-004	1.9500e-003		22.1852	22.1852	8.9000e-004	3.5200e-003	23.2555

3.7 Substation & Switchyard - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	9.6000e-004	0.0451	8.2400e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0656	17.0656	6.8000e-004	2.7100e-003	17.8888
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
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
Total	9.6000e-004	0.0451	8.2400e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0656	17.0656	6.8000e-004	2.7100e-003	17.8888

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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Substation & Switchyard - 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	lb/day										lb/day					
Hauling	9.6000e-004	0.0451	8.2400e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0656	17.0656	6.8000e-004	2.7100e-003	17.8888
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
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
Total	9.6000e-004	0.0451	8.2400e-003	1.6000e-004	4.2100e-003	3.6000e-004	4.5700e-003	1.1500e-003	3.5000e-004	1.5000e-003		17.0656	17.0656	6.8000e-004	2.7100e-003	17.8888

3.8 Gen-Tie 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	5.6000e-004	0.0261	4.7800e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8980	9.8980	4.0000e-004	1.5700e-003	10.3755
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
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
Total	5.6000e-004	0.0261	4.7800e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8980	9.8980	4.0000e-004	1.5700e-003	10.3755

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Gen-Tie 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	lb/day										lb/day					
Hauling	5.6000e-004	0.0261	4.7800e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8980	9.8980	4.0000e-004	1.5700e-003	10.3755
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
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
Total	5.6000e-004	0.0261	4.7800e-003	9.0000e-005	2.4400e-003	2.1000e-004	2.6500e-003	6.7000e-004	2.0000e-004	8.7000e-004		9.8980	9.8980	4.0000e-004	1.5700e-003	10.3755

3.9 Energy Storage 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	lb/day										lb/day					
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
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

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.0000e-004	0.0187	3.4100e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0700	7.0700	2.8000e-004	1.1200e-003	7.4111
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
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
Total	4.0000e-004	0.0187	3.4100e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0700	7.0700	2.8000e-004	1.1200e-003	7.4111

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Energy Storage System - 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	lb/day										lb/day					
Hauling	4.0000e-004	0.0187	3.4100e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0700	7.0700	2.8000e-004	1.1200e-003	7.4111
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
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
Total	4.0000e-004	0.0187	3.4100e-003	6.0000e-005	1.7400e-003	1.5000e-004	1.8900e-003	4.8000e-004	1.4000e-004	6.2000e-004		7.0700	7.0700	2.8000e-004	1.1200e-003	7.4111

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.4600e-003	0.0682	0.0125	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8209	25.8209	1.0400e-003	4.0900e-003	27.0666
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
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
Total	1.4600e-003	0.0682	0.0125	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8209	25.8209	1.0400e-003	4.0900e-003	27.0666

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	lb/day										lb/day					
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
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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Testing, Commissioning, Site Clean Up - 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	lb/day										lb/day					
Hauling	1.4600e-003	0.0682	0.0125	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8209	25.8209	1.0400e-003	4.0900e-003	27.0666
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
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
Total	1.4600e-003	0.0682	0.0125	2.4000e-004	6.3700e-003	5.5000e-004	6.9200e-003	1.7400e-003	5.2000e-004	2.2700e-003		25.8209	25.8209	1.0400e-003	4.0900e-003	27.0666

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660
Unmitigated	0.0299	0.0464	0.3178	6.2000e-004	0.0658	5.1000e-004	0.0663	0.0175	4.7000e-004	0.0180		63.5604	63.5604	4.5700e-003	3.3300e-003	64.6660

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	10.00	10.00	10.00	31,177	31,177
Total	10.00	10.00	10.00	31,177	31,177

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
Unrefrigerated Warehouse-No Rail	10.00	5.00	6.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1198	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughhouse Solar - Unmitigated with BACT Control - BAAQMD - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Sloughhouse Solar Project - Decom
Sacramento Metropolitan AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year		2023	
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Decommissioning Year 2053.

Land Use - 400 acres based on total development area.

Construction Phase - Decommissioning phasing information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - a

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Trips and VMT - Decommissioning trip information was based on data provided by the project applicant.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - No operations for this run. Only modeling decommissioning. See other CalEEMod run for operational emissions.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Area Coating - No operational emissions.

Energy Use - No operational emissions.

Water And Wastewater - No operational emissions.

Solid Waste - No operational emissions.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stabilization and vehicle speed reduction in compliance with BACT

Fleet Mix - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	2500	0
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	400.00	21.00
tblConstructionPhase	NumDays	6,200.00	82.00
tblConstructionPhase	NumDays	6,200.00	23.00
tblConstructionPhase	NumDays	440.00	31.00
tblConstructionPhase	PhaseEndDate	7/14/2051	1/31/2050
tblConstructionPhase	PhaseEndDate	4/19/2075	5/25/2050
tblConstructionPhase	PhaseEndDate	1/23/2099	6/27/2050
tblConstructionPhase	PhaseEndDate	10/1/2100	7/7/2050
tblConstructionPhase	PhaseEndDate	7/14/2051	11/30/2050
tblConstructionPhase	PhaseStartDate	7/15/2051	2/1/2050
tblConstructionPhase	PhaseStartDate	4/20/2075	5/26/2050
tblConstructionPhase	PhaseStartDate	1/24/2099	5/26/2050

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	PhaseStartDate	7/15/2051	7/8/2050
tblEnergyUse	LightingElect	1.60	0.00
tblEnergyUse	NT24E	1.36	0.00
tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	247.00	255.00
tblOffRoadEquipment	HorsePower	231.00	226.00
tblOffRoadEquipment	HorsePower	187.00	174.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	0.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	247.00	255.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	CARB_PM_VMT	True	False
tblSolidWaste	SolidWasteGenerationRate	4.70	0.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	26.00
tbITripsAndVMT	HaulingTripNumber	0.00	20.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	1.00	16.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	100.00
tbITripsAndVMT	WorkerTripNumber	2.00	26.00
tbITripsAndVMT	WorkerTripNumber	15.00	16.00
tbITripsAndVMT	WorkerTripNumber	15.00	26.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2050	3-31-2050	0.4321	0.4321
2	4-1-2050	6-30-2050	0.5748	0.5748
3	7-1-2050	9-30-2050	0.1414	0.1414
		Highest	0.5748	0.5748

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	0.0195	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
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	0.0195	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0195	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
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	0.0195	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

	ROG	NOx	CO	SO2	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	Perimeter Fence Removal	Demolition	1/1/2050	1/31/2050	5	21	
2	System Disassembly and Removal	Building Construction	2/1/2050	5/25/2050	5	82	
3	Clean up	Trenching	7/8/2050	11/30/2050	5	104	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Substation	Building Construction	5/26/2050	6/27/2050	5	23
5	Energy Storage	Paving	5/26/2050	7/7/2050	5	31

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
Perimeter Fence Removal	Concrete/Industrial Saws	0	0.00	81	0.73
Perimeter Fence Removal	Excavators	0	0.00	158	0.38
Perimeter Fence Removal	Off-Highway Trucks	2	8.00	125	0.38
Perimeter Fence Removal	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Removal	Rubber Tired Dozers	0	0.00	255	0.40
Perimeter Fence Removal	Skid Steer Loaders	3	8.00	65	0.37
Perimeter Fence Removal	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Dissassembly and Removal	Cranes	1	8.00	231	0.29
System Dissassembly and Removal	Forklifts	0	0.00	89	0.20
System Dissassembly and Removal	Generator Sets	0	0.00	84	0.74
System Dissassembly and Removal	Graders	0	0.00	174	0.41
System Dissassembly and Removal	Off-Highway Trucks	0	8.00	51	0.38
System Dissassembly and Removal	Off-Highway Trucks	4	8.00	125	0.38
System Dissassembly and Removal	Other Construction Equipment	0		0	0.42
System Dissassembly and Removal	Other Construction Equipment	4	8.00	172	0.42
System Dissassembly and Removal	Rough Terrain Forklifts	6	8.00	100	0.40
System Dissassembly and Removal	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Dissassembly and Removal	Welders	0	0.00	46	0.45

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Substation	Aerial Lifts	2	8.00	63	0.31
Substation	Concrete/Industrial Saws	0	0.00	81	0.73
Substation	Cranes	1	8.00	231	0.29
Substation	Excavators	1	8.00	158	0.38
Substation	Forklifts	0	0.00	89	0.20
Substation	Generator Sets	0	0.00	84	0.74
Substation	Off-Highway Trucks	1	8.00	150	0.38
Substation	Other Construction Equipment	3	8.00	370	0.42
Substation	Plate Compactors	2	8.00	8	0.43
Substation	Rough Terrain Forklifts	4	8.00	100	0.40
Substation	Rubber Tired Dozers	0	0.00	255	0.40
Substation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Substation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation	Welders	0	0.00	46	0.45
Energy Storage	Cement and Mortar Mixers	0		9	0.56
Energy Storage	Cranes	1	8.00	231	0.29
Energy Storage	Graders	1	8.00	187	0.41
Energy Storage	Pavers	0	0.00	130	0.42
Energy Storage	Paving Equipment	0	0.00	132	0.36
Energy Storage	Rollers	0	0.00	80	0.38
Energy Storage	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Clean up	Cranes	0	0.00	226	0.29
Clean up	Forklifts	0	0.00	89	0.20
Clean up	Graders	1	8.00	187	0.41
Clean up	Off-Highway Trucks	4	8.00	150	0.38
Clean up	Skid Steer Loaders	1	8.00	65	0.37
Clean up	Tractors/Loaders/Backhoes	0	0.00	97	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Perimeter Fence Removal	6	50.00	16.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
System Dissassembly and Removal	15	100.00	16.00	26.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Substation	16	26.00	2.00	20.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Clean up	6	26.00	2.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Perimeter Fence Removal - 2050

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	8.3400e-003	0.0358	0.1351	2.3000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	19.7775	19.7775	6.7000e-004	0.0000	19.7943
Total	8.3400e-003	0.0358	0.1351	2.3000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	19.7775	19.7775	6.7000e-004	0.0000	19.7943

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Perimeter Fence Removal - 2050

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	3.8000e-004	8.0000e-005	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1655	0.1655	1.0000e-005	3.0000e-005	0.1735
Vendor	4.9000e-004	0.0357	6.3100e-003	1.7000e-004	7.5300e-003	2.5000e-004	7.7800e-003	2.1700e-003	2.4000e-004	2.4100e-003	0.0000	16.5813	16.5813	3.9000e-004	2.4600e-003	17.3251
Worker	1.7900e-003	1.1300e-003	0.0243	1.1000e-004	0.3440	3.0000e-005	0.3441	0.0375	3.0000e-005	0.0375	0.0000	10.3008	10.3008	5.0000e-005	1.8000e-004	10.3553
Total	2.2800e-003	0.0373	0.0307	2.8000e-004	0.3516	2.8000e-004	0.3519	0.0397	2.7000e-004	0.0400	0.0000	27.0476	27.0476	4.5000e-004	2.6700e-003	27.8539

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	8.3400e-003	0.0358	0.1351	2.3000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	19.7775	19.7775	6.7000e-004	0.0000	19.7943
Total	8.3400e-003	0.0358	0.1351	2.3000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	19.7775	19.7775	6.7000e-004	0.0000	19.7943

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3.2 Perimeter Fence Removal - 2050

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	3.8000e-004	8.0000e-005	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1655	0.1655	1.0000e-005	3.0000e-005	0.1735
Vendor	4.9000e-004	0.0357	6.3100e-003	1.7000e-004	7.5300e-003	2.5000e-004	7.7800e-003	2.1700e-003	2.4000e-004	2.4100e-003	0.0000	16.5813	16.5813	3.9000e-004	2.4600e-003	17.3251
Worker	1.7900e-003	1.1300e-003	0.0243	1.1000e-004	0.1186	3.0000e-005	0.1186	0.0150	3.0000e-005	0.0150	0.0000	10.3008	10.3008	5.0000e-005	1.8000e-004	10.3553
Total	2.2800e-003	0.0373	0.0307	2.8000e-004	0.1262	2.8000e-004	0.1264	0.0172	2.7000e-004	0.0175	0.0000	27.0476	27.0476	4.5000e-004	2.6700e-003	27.8539

3.3 System Dissassembly and Removal - 2050

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	0.1127	0.3787	1.8257	3.4100e-003		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	293.0054	293.0054	9.0800e-003	0.0000	293.2323
Total	0.1127	0.3787	1.8257	3.4100e-003		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	293.0054	293.0054	9.0800e-003	0.0000	293.2323

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3.3 System Dissassembly and Removal - 2050

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	6.0000e-005	4.9600e-003	1.0500e-003	2.0000e-005	8.2000e-004	4.0000e-005	8.6000e-004	2.3000e-004	4.0000e-005	2.7000e-004	0.0000	2.1518	2.1518	9.0000e-005	3.4000e-004	2.2557
Vendor	1.8900e-003	0.1396	0.0247	6.6000e-004	0.0294	9.8000e-004	0.0304	8.4800e-003	9.4000e-004	9.4200e-003	0.0000	64.7460	64.7460	1.5300e-003	9.6200e-003	67.6504
Worker	0.0140	8.8300e-003	0.1899	8.8000e-004	2.6866	2.3000e-004	2.6869	0.2929	2.1000e-004	0.2931	0.0000	80.4445	80.4445	4.1000e-004	1.3900e-003	80.8697
Total	0.0159	0.1534	0.2156	1.5600e-003	2.7168	1.2500e-003	2.7181	0.3016	1.1900e-003	0.3028	0.0000	147.3423	147.3423	2.0300e-003	0.0114	150.7758

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	0.1127	0.3787	1.8257	3.4100e-003		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	293.0051	293.0051	9.0800e-003	0.0000	293.2320
Total	0.1127	0.3787	1.8257	3.4100e-003		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	293.0051	293.0051	9.0800e-003	0.0000	293.2320

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 System Dissassembly and Removal - 2050

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	6.0000e-005	4.9600e-003	1.0500e-003	2.0000e-005	8.2000e-004	4.0000e-005	8.6000e-004	2.3000e-004	4.0000e-005	2.7000e-004	0.0000	2.1518	2.1518	9.0000e-005	3.4000e-004	2.2557
Vendor	1.8900e-003	0.1396	0.0247	6.6000e-004	0.0294	9.8000e-004	0.0304	8.4800e-003	9.4000e-004	9.4200e-003	0.0000	64.7460	64.7460	1.5300e-003	9.6200e-003	67.6504
Worker	0.0140	8.8300e-003	0.1899	8.8000e-004	0.9259	2.3000e-004	0.9261	0.1171	2.1000e-004	0.1173	0.0000	80.4445	80.4445	4.1000e-004	1.3900e-003	80.8697
Total	0.0159	0.1534	0.2156	1.5600e-003	0.9561	1.2500e-003	0.9574	0.1258	1.1900e-003	0.1270	0.0000	147.3423	147.3423	2.0300e-003	0.0114	150.7758

3.4 Clean up - 2050

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	0.0607	0.1235	0.8741	1.8100e-003		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	155.4270	155.4270	4.8800e-003	0.0000	155.5490
Total	0.0607	0.1235	0.8741	1.8100e-003		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	155.4270	155.4270	4.8800e-003	0.0000	155.5490

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Clean up - 2050

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	3.8000e-004	8.0000e-005	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1655	0.1655	1.0000e-005	3.0000e-005	0.1735
Vendor	3.0000e-004	0.0221	3.9100e-003	1.1000e-004	4.6600e-003	1.6000e-004	4.8100e-003	1.3400e-003	1.5000e-004	1.4900e-003	0.0000	10.2646	10.2646	2.4000e-004	1.5200e-003	10.7251
Worker	4.6000e-003	2.9100e-003	0.0626	2.9000e-004	0.8859	8.0000e-005	0.8860	0.0966	7.0000e-005	0.0967	0.0000	26.5271	26.5271	1.4000e-004	4.6000e-004	26.6673
Total	4.9000e-003	0.0254	0.0666	4.0000e-004	0.8907	2.4000e-004	0.8909	0.0979	2.2000e-004	0.0982	0.0000	36.9572	36.9572	3.9000e-004	2.0100e-003	37.5659

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	0.0607	0.1235	0.8741	1.8100e-003		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	155.4268	155.4268	4.8800e-003	0.0000	155.5488
Total	0.0607	0.1235	0.8741	1.8100e-003		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	155.4268	155.4268	4.8800e-003	0.0000	155.5488

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3.4 Clean up - 2050

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	3.8000e-004	8.0000e-005	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1655	0.1655	1.0000e-005	3.0000e-005	0.1735
Vendor	3.0000e-004	0.0221	3.9100e-003	1.1000e-004	4.6600e-003	1.6000e-004	4.8100e-003	1.3400e-003	1.5000e-004	1.4900e-003	0.0000	10.2646	10.2646	2.4000e-004	1.5200e-003	10.7251
Worker	4.6000e-003	2.9100e-003	0.0626	2.9000e-004	0.3053	8.0000e-005	0.3054	0.0386	7.0000e-005	0.0387	0.0000	26.5271	26.5271	1.4000e-004	4.6000e-004	26.6673
Total	4.9000e-003	0.0254	0.0666	4.0000e-004	0.3100	2.4000e-004	0.3103	0.0400	2.2000e-004	0.0402	0.0000	36.9572	36.9572	3.9000e-004	2.0100e-003	37.5659

3.5 Substation - 2050

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	0.0354	0.1255	0.3994	1.0400e-003		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	97.0330	97.0330	2.8400e-003	0.0000	97.1041
Total	0.0354	0.1255	0.3994	1.0400e-003		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	97.0330	97.0330	2.8400e-003	0.0000	97.1041

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3.5 Substation - 2050

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	3.8100e-003	8.1000e-004	2.0000e-005	6.3000e-004	3.0000e-005	6.7000e-004	1.7000e-004	3.0000e-005	2.1000e-004	0.0000	1.6552	1.6552	7.0000e-005	2.6000e-004	1.7351
Vendor	7.0000e-005	4.8900e-003	8.6000e-004	2.0000e-005	1.0300e-003	3.0000e-005	1.0600e-003	3.0000e-004	3.0000e-005	3.3000e-004	0.0000	2.2701	2.2701	5.0000e-005	3.4000e-004	2.3719
Worker	1.0200e-003	6.4000e-004	0.0139	6.0000e-005	0.1959	2.0000e-005	0.1959	0.0214	2.0000e-005	0.0214	0.0000	5.8666	5.8666	3.0000e-005	1.0000e-004	5.8976
Total	1.1400e-003	9.3400e-003	0.0155	1.0000e-004	0.1976	8.0000e-005	0.1977	0.0218	8.0000e-005	0.0219	0.0000	9.7918	9.7918	1.5000e-004	7.0000e-004	10.0046

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	0.0354	0.1255	0.3994	1.0400e-003		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	97.0329	97.0329	2.8400e-003	0.0000	97.1040
Total	0.0354	0.1255	0.3994	1.0400e-003		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	97.0329	97.0329	2.8400e-003	0.0000	97.1040

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3.5 Substation - 2050

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	3.8100e-003	8.1000e-004	2.0000e-005	6.3000e-004	3.0000e-005	6.7000e-004	1.7000e-004	3.0000e-005	2.1000e-004	0.0000	1.6552	1.6552	7.0000e-005	2.6000e-004	1.7351
Vendor	7.0000e-005	4.8900e-003	8.6000e-004	2.0000e-005	1.0300e-003	3.0000e-005	1.0600e-003	3.0000e-004	3.0000e-005	3.3000e-004	0.0000	2.2701	2.2701	5.0000e-005	3.4000e-004	2.3719
Worker	1.0200e-003	6.4000e-004	0.0139	6.0000e-005	0.0675	2.0000e-005	0.0675	8.5400e-003	2.0000e-005	8.5500e-003	0.0000	5.8666	5.8666	3.0000e-005	1.0000e-004	5.8976
Total	1.1400e-003	9.3400e-003	0.0155	1.0000e-004	0.0692	8.0000e-005	0.0693	9.0100e-003	8.0000e-005	9.0900e-003	0.0000	9.7918	9.7918	1.5000e-004	7.0000e-004	10.0046

3.6 Energy Storage - 2050

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	0.0188	0.0788	0.2075	5.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	42.7973	42.7973	1.5200e-003	0.0000	42.8352
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0188	0.0788	0.2075	5.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	42.7973	42.7973	1.5200e-003	0.0000	42.8352

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3.6 Energy Storage - 2050

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	3.8000e-004	8.0000e-005	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1655	0.1655	1.0000e-005	3.0000e-005	0.1735
Vendor	9.0000e-005	6.6000e-003	1.1700e-003	3.0000e-005	1.3900e-003	5.0000e-005	1.4400e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	3.0596	3.0596	7.0000e-005	4.5000e-004	3.1969
Worker	8.4000e-004	5.3000e-004	0.0115	5.0000e-005	0.1625	1.0000e-005	0.1625	0.0177	1.0000e-005	0.0177	0.0000	4.8659	4.8659	2.0000e-005	8.0000e-005	4.8916
Total	9.3000e-004	7.5100e-003	0.0127	8.0000e-005	0.1640	6.0000e-005	0.1640	0.0181	5.0000e-005	0.0182	0.0000	8.0911	8.0911	1.0000e-004	5.6000e-004	8.2620

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	0.0188	0.0788	0.2075	5.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	42.7972	42.7972	1.5200e-003	0.0000	42.8352
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0188	0.0788	0.2075	5.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	42.7972	42.7972	1.5200e-003	0.0000	42.8352

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3.6 Energy Storage - 2050

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	3.8000e-004	8.0000e-005	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1655	0.1655	1.0000e-005	3.0000e-005	0.1735
Vendor	9.0000e-005	6.6000e-003	1.1700e-003	3.0000e-005	1.3900e-003	5.0000e-005	1.4400e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	3.0596	3.0596	7.0000e-005	4.5000e-004	3.1969
Worker	8.4000e-004	5.3000e-004	0.0115	5.0000e-005	0.0560	1.0000e-005	0.0560	7.0800e-003	1.0000e-005	7.0900e-003	0.0000	4.8659	4.8659	2.0000e-005	8.0000e-005	4.8916
Total	9.3000e-004	7.5100e-003	0.0127	8.0000e-005	0.0575	6.0000e-005	0.0575	7.5000e-003	5.0000e-005	7.5500e-003	0.0000	8.0911	8.0911	1.0000e-004	5.6000e-004	8.2620

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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
Unrefrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	15.00	7.50	8.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	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			
Unrefrigerated Warehouse-No Rail	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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0195	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0195	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0195	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0195	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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			
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	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			
Unrefrigerated Warehouse-No Rail	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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sloughhouse Solar Project - Decom
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Decommissioning Year 2053.

Land Use - 400 acres based on total development area.

Construction Phase - Decommissioning phasing information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - a

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Trips and VMT - Decommissioning trip information was based on data provided by the project applicant.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - No operations for this run. Only modeling decommissioning. See other CalEEMod run for operational emissions.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Area Coating - No operational emissions.

Energy Use - No operational emissions.

Water And Wastewater - No operational emissions.

Solid Waste - No operational emissions.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stabilization and vehicle speed reduction in compliance with BACT

Fleet Mix - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	2500	0
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	400.00	21.00
tblConstructionPhase	NumDays	6,200.00	82.00
tblConstructionPhase	NumDays	6,200.00	23.00
tblConstructionPhase	NumDays	440.00	31.00
tblConstructionPhase	PhaseEndDate	7/14/2051	1/31/2050
tblConstructionPhase	PhaseEndDate	4/19/2075	5/25/2050
tblConstructionPhase	PhaseEndDate	1/23/2099	6/27/2050
tblConstructionPhase	PhaseEndDate	10/1/2100	7/7/2050
tblConstructionPhase	PhaseEndDate	7/14/2051	11/30/2050
tblConstructionPhase	PhaseStartDate	7/15/2051	2/1/2050
tblConstructionPhase	PhaseStartDate	4/20/2075	5/26/2050
tblConstructionPhase	PhaseStartDate	1/24/2099	5/26/2050

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	PhaseStartDate	7/15/2051	7/8/2050
tblEnergyUse	LightingElect	1.60	0.00
tblEnergyUse	NT24E	1.36	0.00
tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	247.00	255.00
tblOffRoadEquipment	HorsePower	231.00	226.00
tblOffRoadEquipment	HorsePower	187.00	174.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	0.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	247.00	255.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	CARB_PM_VMT	True	False
tblSolidWaste	SolidWasteGenerationRate	4.70	0.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	26.00
tbITripsAndVMT	HaulingTripNumber	0.00	20.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	1.00	16.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	100.00
tbITripsAndVMT	WorkerTripNumber	2.00	26.00
tbITripsAndVMT	WorkerTripNumber	15.00	16.00
tbITripsAndVMT	WorkerTripNumber	15.00	26.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
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
Total	0.1071	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000	0.0000	1.1700e-003

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	lb/day										lb/day					
Area	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
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
Total	0.1071	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000	0.0000	1.1700e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	Perimeter Fence Removal	Demolition	1/1/2050	1/31/2050	5	21	
2	System Dissassembly and Removal	Building Construction	2/1/2050	5/25/2050	5	82	
3	Clean up	Trenching	7/8/2050	11/30/2050	5	104	
4	Substation	Building Construction	5/26/2050	6/27/2050	5	23	
5	Energy Storage	Paving	5/26/2050	7/7/2050	5	31	

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
Perimeter Fence Removal	Concrete/Industrial Saws	0	0.00	81	0.73
Perimeter Fence Removal	Excavators	0	0.00	158	0.38
Perimeter Fence Removal	Off-Highway Trucks	2	8.00	125	0.38
Perimeter Fence Removal	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Removal	Rubber Tired Dozers	0	0.00	255	0.40
Perimeter Fence Removal	Skid Steer Loaders	3	8.00	65	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Perimeter Fence Removal	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Disassembly and Removal	Cranes	1	8.00	231	0.29
System Disassembly and Removal	Forklifts	0	0.00	89	0.20
System Disassembly and Removal	Generator Sets	0	0.00	84	0.74
System Disassembly and Removal	Graders	0	0.00	174	0.41
System Disassembly and Removal	Off-Highway Trucks	0	8.00	51	0.38
System Disassembly and Removal	Off-Highway Trucks	4	8.00	125	0.38
System Disassembly and Removal	Other Construction Equipment	0		0	0.42
System Disassembly and Removal	Other Construction Equipment	4	8.00	172	0.42
System Disassembly and Removal	Rough Terrain Forklifts	6	8.00	100	0.40
System Disassembly and Removal	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Disassembly and Removal	Welders	0	0.00	46	0.45
Substation	Aerial Lifts	2	8.00	63	0.31
Substation	Concrete/Industrial Saws	0	0.00	81	0.73
Substation	Cranes	1	8.00	231	0.29
Substation	Excavators	1	8.00	158	0.38
Substation	Forklifts	0	0.00	89	0.20
Substation	Generator Sets	0	0.00	84	0.74
Substation	Off-Highway Trucks	1	8.00	150	0.38
Substation	Other Construction Equipment	3	8.00	370	0.42
Substation	Plate Compactors	2	8.00	8	0.43
Substation	Rough Terrain Forklifts	4	8.00	100	0.40
Substation	Rubber Tired Dozers	0	0.00	255	0.40
Substation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Substation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation	Welders	0	0.00	46	0.45
Energy Storage	Cement and Mortar Mixers	0		9	0.56
Energy Storage	Cranes	1	8.00	231	0.29
Energy Storage	Graders	1	8.00	187	0.41

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Storage	Pavers	0	0.00	130	0.42
Energy Storage	Paving Equipment	0	0.00	132	0.36
Energy Storage	Rollers	0	0.00	80	0.38
Energy Storage	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Clean up	Cranes	0	0.00	226	0.29
Clean up	Forklifts	0	0.00	89	0.20
Clean up	Graders	1	8.00	187	0.41
Clean up	Off-Highway Trucks	4	8.00	150	0.38
Clean up	Skid Steer Loaders	1	8.00	65	0.37
Clean up	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
Perimeter Fence Removal	6	50.00	16.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
System Dissassembly and Removal	15	100.00	16.00	26.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Substation	16	26.00	2.00	20.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Clean up	6	26.00	2.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Perimeter Fence Removal - 2050

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	lb/day										lb/day					
Off-Road	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496		2,076.2820	2,076.2820	0.0706		2,078.0461
Total	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496		2,076.2820	2,076.2820	0.0706		2,078.0461

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	lb/day										lb/day					
Hauling	4.4000e-004	0.0342	7.7100e-003	1.6000e-004	6.2100e-003	3.2000e-004	6.5200e-003	1.7000e-003	3.0000e-004	2.0000e-003		17.3743	17.3743	7.2000e-004	2.7600e-003	18.2133
Vendor	0.0467	3.1997	0.5991	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,740.5185	1,740.5185	0.0411	0.2585	1,818.5684
Worker	0.1743	0.0983	2.8974	0.0117	38.6752	2.7900e-003	38.6780	4.1710	2.5700e-003	4.1736		1,185.9683	1,185.9683	5.8700e-003	0.0176	1,191.3586
Total	0.2214	3.3322	3.5043	0.0281	39.4192	0.0270	39.4462	4.3847	0.0257	4.4104		2,943.8611	2,943.8611	0.0476	0.2788	3,028.1403

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Perimeter Fence Removal - 2050

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	lb/day										lb/day					
Off-Road	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496	0.0000	2,076.2820	2,076.2820	0.0706		2,078.0461
Total	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496	0.0000	2,076.2820	2,076.2820	0.0706		2,078.0461

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	lb/day										lb/day					
Hauling	4.4000e-004	0.0342	7.7100e-003	1.6000e-004	6.2100e-003	3.2000e-004	6.5200e-003	1.7000e-003	3.0000e-004	2.0000e-003		17.3743	17.3743	7.2000e-004	2.7600e-003	18.2133
Vendor	0.0467	3.1997	0.5991	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,740.5185	1,740.5185	0.0411	0.2585	1,818.5684
Worker	0.1743	0.0983	2.8974	0.0117	13.1462	2.7900e-003	13.1490	1.6220	2.5700e-003	1.6246		1,185.9683	1,185.9683	5.8700e-003	0.0176	1,191.3586
Total	0.2214	3.3322	3.5043	0.0281	13.8902	0.0270	13.9171	1.8357	0.0257	1.8614		2,943.8611	2,943.8611	0.0476	0.2788	3,028.1403

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 System Dissassembly and Removal - 2050

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	lb/day										lb/day					
Off-Road	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827		7,877.6387	7,877.6387	0.2440		7,883.7390
Total	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827		7,877.6387	7,877.6387	0.2440		7,883.7390

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	lb/day										lb/day					
Hauling	1.4700e-003	0.1137	0.0257	5.3000e-004	0.0207	1.0500e-003	0.0217	5.6500e-003	1.0100e-003	6.6600e-003		57.8437	57.8437	2.3900e-003	9.1700e-003	60.6369
Vendor	0.0467	3.1997	0.5991	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,740.5185	1,740.5185	0.0411	0.2585	1,818.5684
Worker	0.3487	0.1966	5.7949	0.0235	77.3504	5.5800e-003	77.3560	8.3420	5.1300e-003	8.3471		2,371.9366	2,371.9366	0.0117	0.0352	2,382.7173
Total	0.3968	3.5100	6.4196	0.0402	78.1089	0.0305	78.1394	8.5596	0.0290	8.5886		4,170.2988	4,170.2988	0.0552	0.3028	4,261.9226

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 System Dissassembly and Removal - 2050

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	lb/day										lb/day					
Off-Road	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827	0.0000	7,877.6387	7,877.6387	0.2440		7,883.7390
Total	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827	0.0000	7,877.6387	7,877.6387	0.2440		7,883.7390

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	lb/day										lb/day					
Hauling	1.4700e-003	0.1137	0.0257	5.3000e-004	0.0207	1.0500e-003	0.0217	5.6500e-003	1.0100e-003	6.6600e-003		57.8437	57.8437	2.3900e-003	9.1700e-003	60.6369
Vendor	0.0467	3.1997	0.5991	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,740.5185	1,740.5185	0.0411	0.2585	1,818.5684
Worker	0.3487	0.1966	5.7949	0.0235	26.2923	5.5800e-003	26.2979	3.2440	5.1300e-003	3.2491		2,371.9366	2,371.9366	0.0117	0.0352	2,382.7173
Total	0.3968	3.5100	6.4196	0.0402	27.0508	0.0305	27.0813	3.4616	0.0290	3.4906		4,170.2988	4,170.2988	0.0552	0.3028	4,261.9226

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Clean up - 2050

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	lb/day										lb/day					
Off-Road	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754		3,294.7868	3,294.7868	0.1034		3,297.3726
Total	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754		3,294.7868	3,294.7868	0.1034		3,297.3726

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	lb/day										lb/day					
Hauling	9.0000e-005	6.8900e-003	1.5600e-003	3.0000e-005	1.2500e-003	6.0000e-005	1.3200e-003	3.4000e-004	6.0000e-005	4.0000e-004		3.5083	3.5083	1.4000e-004	5.6000e-004	3.6777
Vendor	5.8300e-003	0.4000	0.0749	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.5648	217.5648	5.1300e-003	0.0323	227.3211
Worker	0.0907	0.0511	1.5067	6.1000e-003	20.1111	1.4500e-003	20.1126	2.1689	1.3300e-003	2.1703		616.7035	616.7035	3.0500e-003	9.1500e-003	619.5065
Total	0.0966	0.4580	1.5831	8.1600e-003	20.2046	4.4900e-003	20.2091	2.1958	4.2400e-003	2.2000		837.7766	837.7766	8.3200e-003	0.0420	850.5052

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Clean up - 2050

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	lb/day										lb/day					
Off-Road	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754	0.0000	3,294.7868	3,294.7868	0.1034		3,297.3726
Total	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754	0.0000	3,294.7868	3,294.7868	0.1034		3,297.3726

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	lb/day										lb/day					
Hauling	9.0000e-005	6.8900e-003	1.5600e-003	3.0000e-005	1.2500e-003	6.0000e-005	1.3200e-003	3.4000e-004	6.0000e-005	4.0000e-004		3.5083	3.5083	1.4000e-004	5.6000e-004	3.6777
Vendor	5.8300e-003	0.4000	0.0749	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.5648	217.5648	5.1300e-003	0.0323	227.3211
Worker	0.0907	0.0511	1.5067	6.1000e-003	6.8360	1.4500e-003	6.8375	0.8434	1.3300e-003	0.8448		616.7035	616.7035	3.0500e-003	9.1500e-003	619.5065
Total	0.0966	0.4580	1.5831	8.1600e-003	6.9295	4.4900e-003	6.9340	0.8703	4.2400e-003	0.8745		837.7766	837.7766	8.3200e-003	0.0420	850.5052

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Substation - 2050

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	lb/day										lb/day					
Off-Road	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176		9,300.9158	9,300.9158	0.2726		9,307.7317
Total	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176		9,300.9158	9,300.9158	0.2726		9,307.7317

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	lb/day										lb/day					
Hauling	4.0300e-003	0.3118	0.0704	1.4500e-003	0.0567	2.8900e-003	0.0596	0.0155	2.7700e-003	0.0183		158.6350	158.6350	6.5500e-003	0.0252	166.2953
Vendor	5.8300e-003	0.4000	0.0749	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.5648	217.5648	5.1300e-003	0.0323	227.3211
Worker	0.0907	0.0511	1.5067	6.1000e-003	20.1111	1.4500e-003	20.1126	2.1689	1.3300e-003	2.1703		616.7035	616.7035	3.0500e-003	9.1500e-003	619.5065
Total	0.1005	0.7629	1.6520	9.5800e-003	20.2600	7.3200e-003	20.2673	2.2109	6.9500e-003	2.2179		992.9033	992.9033	0.0147	0.0666	1,013.1228

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Substation - 2050

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	lb/day										lb/day					
Off-Road	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176	0.0000	9,300.9158	9,300.9158	0.2726		9,307.7317
Total	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176	0.0000	9,300.9158	9,300.9158	0.2726		9,307.7317

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	lb/day										lb/day					
Hauling	4.0300e-003	0.3118	0.0704	1.4500e-003	0.0567	2.8900e-003	0.0596	0.0155	2.7700e-003	0.0183		158.6350	158.6350	6.5500e-003	0.0252	166.2953
Vendor	5.8300e-003	0.4000	0.0749	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.5648	217.5648	5.1300e-003	0.0323	227.3211
Worker	0.0907	0.0511	1.5067	6.1000e-003	6.8360	1.4500e-003	6.8375	0.8434	1.3300e-003	0.8448		616.7035	616.7035	3.0500e-003	9.1500e-003	619.5065
Total	0.1005	0.7629	1.6520	9.5800e-003	6.9849	7.3200e-003	6.9922	0.8854	6.9500e-003	0.8924		992.9033	992.9033	0.0147	0.0666	1,013.1228

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Energy Storage - 2050

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	lb/day										lb/day					
Off-Road	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781		3,043.6081	3,043.6081	0.1080		3,046.3075
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781		3,043.6081	3,043.6081	0.1080		3,046.3075

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	lb/day										lb/day					
Hauling	3.0000e-004	0.0231	5.2200e-003	1.1000e-004	4.2000e-003	2.1000e-004	4.4200e-003	1.1500e-003	2.1000e-004	1.3600e-003		11.7697	11.7697	4.9000e-004	1.8700e-003	12.3380
Vendor	5.8300e-003	0.4000	0.0749	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.5648	217.5648	5.1300e-003	0.0323	227.3211
Worker	0.0558	0.0315	0.9272	3.7500e-003	12.3761	8.9000e-004	12.3770	1.3347	8.2000e-004	1.3355		379.5099	379.5099	1.8800e-003	5.6300e-003	381.2348
Total	0.0619	0.4546	1.0073	5.8900e-003	12.4725	4.0800e-003	12.4766	1.3624	3.8800e-003	1.3663		608.8444	608.8444	7.5000e-003	0.0398	620.8939

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Energy Storage - 2050

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	lb/day										lb/day					
Off-Road	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781	0.0000	3,043.6081	3,043.6081	0.1080		3,046.3075
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781	0.0000	3,043.6081	3,043.6081	0.1080		3,046.3075

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	lb/day										lb/day					
Hauling	3.0000e-004	0.0231	5.2200e-003	1.1000e-004	4.2000e-003	2.1000e-004	4.4200e-003	1.1500e-003	2.1000e-004	1.3600e-003		11.7697	11.7697	4.9000e-004	1.8700e-003	12.3380
Vendor	5.8300e-003	0.4000	0.0749	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.5648	217.5648	5.1300e-003	0.0323	227.3211
Worker	0.0558	0.0315	0.9272	3.7500e-003	4.2068	8.9000e-004	4.2077	0.5190	8.2000e-004	0.5199		379.5099	379.5099	1.8800e-003	5.6300e-003	381.2348
Total	0.0619	0.4546	1.0073	5.8900e-003	4.3032	4.0800e-003	4.3073	0.5467	3.8800e-003	0.5506		608.8444	608.8444	7.5000e-003	0.0398	620.8939

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	15.00	7.50	8.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

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

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Sloughhouse Solar Project - Decom
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	400.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2023		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Decommissioning Year 2053.

Land Use - 400 acres based on total development area.

Construction Phase - Decommissioning phasing information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - a

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Off-road Equipment - Decommissioning equipment information was provided by the project applicant.

Trips and VMT - Decommissioning trip information was based on data provided by the project applicant.

On-road Fugitive Dust - Assumed 0.5 miles of travel on unpaved roads for worker vehicles.

Grading - CalEEMod defaults.

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - No operations for this run. Only modeling decommissioning. See other CalEEMod run for operational emissions.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Area Coating - No operational emissions.

Energy Use - No operational emissions.

Water And Wastewater - No operational emissions.

Solid Waste - No operational emissions.

Construction Off-road Equipment Mitigation - Included watering 2x daily, unpaved road stabilization and vehicle speed reduction in compliance with BACT

Fleet Mix - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	2500	0
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	400.00	21.00
tblConstructionPhase	NumDays	6,200.00	82.00
tblConstructionPhase	NumDays	6,200.00	23.00
tblConstructionPhase	NumDays	440.00	31.00
tblConstructionPhase	PhaseEndDate	7/14/2051	1/31/2050
tblConstructionPhase	PhaseEndDate	4/19/2075	5/25/2050
tblConstructionPhase	PhaseEndDate	1/23/2099	6/27/2050
tblConstructionPhase	PhaseEndDate	10/1/2100	7/7/2050
tblConstructionPhase	PhaseEndDate	7/14/2051	11/30/2050
tblConstructionPhase	PhaseStartDate	7/15/2051	2/1/2050
tblConstructionPhase	PhaseStartDate	4/20/2075	5/26/2050
tblConstructionPhase	PhaseStartDate	1/24/2099	5/26/2050

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	PhaseStartDate	7/15/2051	7/8/2050
tblEnergyUse	LightingElect	1.60	0.00
tblEnergyUse	NT24E	1.36	0.00
tblEnergyUse	T24E	0.23	0.00
tblEnergyUse	T24NG	0.49	0.00
tblLandUse	LotAcreage	0.11	400.00
tblOffRoadEquipment	HorsePower	247.00	255.00
tblOffRoadEquipment	HorsePower	231.00	226.00
tblOffRoadEquipment	HorsePower	187.00	174.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	51.00
tblOffRoadEquipment	HorsePower	402.00	125.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	0.00
tblOffRoadEquipment	HorsePower	172.00	370.00
tblOffRoadEquipment	HorsePower	247.00	255.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblOnRoadDust	WorkerPercentPave	100.00	99.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	CARB_PM_VMT	True	False
tblSolidWaste	SolidWasteGenerationRate	4.70	0.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripLength	20.00	75.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	26.00
tbITripsAndVMT	HaulingTripNumber	0.00	20.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripLength	8.50	50.00
tbITripsAndVMT	VendorTripNumber	0.00	16.00
tbITripsAndVMT	VendorTripNumber	1.00	16.00
tbITripsAndVMT	VendorTripNumber	1.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripLength	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	15.00	50.00
tbITripsAndVMT	WorkerTripNumber	2.00	100.00
tbITripsAndVMT	WorkerTripNumber	2.00	26.00
tbITripsAndVMT	WorkerTripNumber	15.00	16.00
tbITripsAndVMT	WorkerTripNumber	15.00	26.00

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00

2.0 Emissions Summary

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
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
Total	0.1071	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000	0.0000	1.1700e-003

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	lb/day										lb/day					
Area	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
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
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
Total	0.1071	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000	0.0000	1.1700e-003

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	Perimeter Fence Removal	Demolition	1/1/2050	1/31/2050	5	21	
2	System Dissassembly and Removal	Building Construction	2/1/2050	5/25/2050	5	82	
3	Clean up	Trenching	7/8/2050	11/30/2050	5	104	
4	Substation	Building Construction	5/26/2050	6/27/2050	5	23	
5	Energy Storage	Paving	5/26/2050	7/7/2050	5	31	

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
Perimeter Fence Removal	Concrete/Industrial Saws	0	0.00	81	0.73
Perimeter Fence Removal	Excavators	0	0.00	158	0.38
Perimeter Fence Removal	Off-Highway Trucks	2	8.00	125	0.38
Perimeter Fence Removal	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Removal	Rubber Tired Dozers	0	0.00	255	0.40
Perimeter Fence Removal	Skid Steer Loaders	3	8.00	65	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Perimeter Fence Removal	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Disassembly and Removal	Cranes	1	8.00	231	0.29
System Disassembly and Removal	Forklifts	0	0.00	89	0.20
System Disassembly and Removal	Generator Sets	0	0.00	84	0.74
System Disassembly and Removal	Graders	0	0.00	174	0.41
System Disassembly and Removal	Off-Highway Trucks	0	8.00	51	0.38
System Disassembly and Removal	Off-Highway Trucks	4	8.00	125	0.38
System Disassembly and Removal	Other Construction Equipment	0		0	0.42
System Disassembly and Removal	Other Construction Equipment	4	8.00	172	0.42
System Disassembly and Removal	Rough Terrain Forklifts	6	8.00	100	0.40
System Disassembly and Removal	Tractors/Loaders/Backhoes	0	0.00	97	0.37
System Disassembly and Removal	Welders	0	0.00	46	0.45
Substation	Aerial Lifts	2	8.00	63	0.31
Substation	Concrete/Industrial Saws	0	0.00	81	0.73
Substation	Cranes	1	8.00	231	0.29
Substation	Excavators	1	8.00	158	0.38
Substation	Forklifts	0	0.00	89	0.20
Substation	Generator Sets	0	0.00	84	0.74
Substation	Off-Highway Trucks	1	8.00	150	0.38
Substation	Other Construction Equipment	3	8.00	370	0.42
Substation	Plate Compactors	2	8.00	8	0.43
Substation	Rough Terrain Forklifts	4	8.00	100	0.40
Substation	Rubber Tired Dozers	0	0.00	255	0.40
Substation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Substation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Substation	Welders	0	0.00	46	0.45
Energy Storage	Cement and Mortar Mixers	0		9	0.56
Energy Storage	Cranes	1	8.00	231	0.29
Energy Storage	Graders	1	8.00	187	0.41

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Storage	Pavers	0	0.00	130	0.42
Energy Storage	Paving Equipment	0	0.00	132	0.36
Energy Storage	Rollers	0	0.00	80	0.38
Energy Storage	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Clean up	Cranes	0	0.00	226	0.29
Clean up	Forklifts	0	0.00	89	0.20
Clean up	Graders	1	8.00	187	0.41
Clean up	Off-Highway Trucks	4	8.00	150	0.38
Clean up	Skid Steer Loaders	1	8.00	65	0.37
Clean up	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
Perimeter Fence Removal	6	50.00	16.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
System Dissassembly and Removal	15	100.00	16.00	26.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Substation	16	26.00	2.00	20.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT
Clean up	6	26.00	2.00	2.00	50.00	50.00	75.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Perimeter Fence Removal - 2050

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	lb/day										lb/day					
Off-Road	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496		2,076.2820	2,076.2820	0.0706		2,078.0461
Total	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496		2,076.2820	2,076.2820	0.0706		2,078.0461

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	lb/day										lb/day					
Hauling	4.3000e-004	0.0371	7.7300e-003	1.6000e-004	6.2100e-003	3.2000e-004	6.5200e-003	1.7000e-003	3.0000e-004	2.0000e-003		17.3798	17.3798	7.2000e-004	2.7600e-003	18.2191
Vendor	0.0467	3.4728	0.6043	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,741.0412	1,741.0412	0.0410	0.2587	1,819.1588
Worker	0.1976	0.1204	2.2373	0.0104	38.6752	2.7900e-003	38.6780	4.1710	2.5700e-003	4.1736		1,053.5490	1,053.5490	5.6300e-003	0.0201	1,059.6862
Total	0.2447	3.6303	2.8493	0.0268	39.4192	0.0270	39.4462	4.3847	0.0257	4.4104		2,811.9700	2,811.9700	0.0473	0.2816	2,897.0641

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Perimeter Fence Removal - 2050

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	lb/day										lb/day					
Off-Road	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496	0.0000	2,076.2820	2,076.2820	0.0706		2,078.0461
Total	0.7940	3.4065	12.8708	0.0219		0.0496	0.0496		0.0496	0.0496	0.0000	2,076.2820	2,076.2820	0.0706		2,078.0461

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	lb/day										lb/day					
Hauling	4.3000e-004	0.0371	7.7300e-003	1.6000e-004	6.2100e-003	3.2000e-004	6.5200e-003	1.7000e-003	3.0000e-004	2.0000e-003		17.3798	17.3798	7.2000e-004	2.7600e-003	18.2191
Vendor	0.0467	3.4728	0.6043	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,741.0412	1,741.0412	0.0410	0.2587	1,819.1588
Worker	0.1976	0.1204	2.2373	0.0104	13.1462	2.7900e-003	13.1490	1.6220	2.5700e-003	1.6246		1,053.5490	1,053.5490	5.6300e-003	0.0201	1,059.6862
Total	0.2447	3.6303	2.8493	0.0268	13.8902	0.0270	13.9171	1.8357	0.0257	1.8614		2,811.9700	2,811.9700	0.0473	0.2816	2,897.0641

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 System Dissassembly and Removal - 2050

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	lb/day										lb/day					
Off-Road	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827		7,877.6387	7,877.6387	0.2440		7,883.7390
Total	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827		7,877.6387	7,877.6387	0.2440		7,883.7390

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	lb/day										lb/day					
Hauling	1.4300e-003	0.1234	0.0258	5.3000e-004	0.0207	1.0500e-003	0.0217	5.6500e-003	1.0100e-003	6.6600e-003		57.8621	57.8621	2.3800e-003	9.1800e-003	60.6563
Vendor	0.0467	3.4728	0.6043	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,741.0412	1,741.0412	0.0410	0.2587	1,819.1588
Worker	0.3952	0.2407	4.4746	0.0208	77.3504	5.5800e-003	77.3560	8.3420	5.1300e-003	8.3471		2,107.0980	2,107.0980	0.0113	0.0402	2,119.3723
Total	0.4432	3.8369	5.1046	0.0376	78.1089	0.0305	78.1394	8.5596	0.0290	8.5886		3,906.0013	3,906.0013	0.0546	0.3081	3,999.1874

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 System Dissassembly and Removal - 2050

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	lb/day										lb/day					
Off-Road	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827	0.0000	7,877.6387	7,877.6387	0.2440		7,883.7390
Total	2.7484	9.2358	44.5285	0.0832		0.1827	0.1827		0.1827	0.1827	0.0000	7,877.6387	7,877.6387	0.2440		7,883.7390

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	lb/day										lb/day					
Hauling	1.4300e-003	0.1234	0.0258	5.3000e-004	0.0207	1.0500e-003	0.0217	5.6500e-003	1.0100e-003	6.6600e-003		57.8621	57.8621	2.3800e-003	9.1800e-003	60.6563
Vendor	0.0467	3.4728	0.6043	0.0162	0.7378	0.0239	0.7617	0.2120	0.0228	0.2348		1,741.0412	1,741.0412	0.0410	0.2587	1,819.1588
Worker	0.3952	0.2407	4.4746	0.0208	26.2923	5.5800e-003	26.2979	3.2440	5.1300e-003	3.2491		2,107.0980	2,107.0980	0.0113	0.0402	2,119.3723
Total	0.4432	3.8369	5.1046	0.0376	27.0508	0.0305	27.0813	3.4616	0.0290	3.4906		3,906.0013	3,906.0013	0.0546	0.3081	3,999.1874

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Clean up - 2050

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	lb/day										lb/day					
Off-Road	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754		3,294.7868	3,294.7868	0.1034		3,297.3726
Total	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754		3,294.7868	3,294.7868	0.1034		3,297.3726

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	lb/day										lb/day					
Hauling	9.0000e-005	7.4800e-003	1.5600e-003	3.0000e-005	1.2500e-003	6.0000e-005	1.3200e-003	3.4000e-004	6.0000e-005	4.0000e-004		3.5094	3.5094	1.4000e-004	5.6000e-004	3.6789
Vendor	5.8300e-003	0.4341	0.0755	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.6302	217.6302	5.1200e-003	0.0323	227.3949
Worker	0.1027	0.0626	1.1634	5.4200e-003	20.1111	1.4500e-003	20.1126	2.1689	1.3300e-003	2.1703		547.8455	547.8455	2.9300e-003	0.0105	551.0368
Total	0.1087	0.5042	1.2405	7.4800e-003	20.2046	4.4900e-003	20.2091	2.1958	4.2400e-003	2.2000		768.9850	768.9850	8.1900e-003	0.0434	782.1105

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Clean up - 2050

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	lb/day										lb/day					
Off-Road	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754	0.0000	3,294.7868	3,294.7868	0.1034		3,297.3726
Total	1.1681	2.3742	16.8104	0.0348		0.0754	0.0754		0.0754	0.0754	0.0000	3,294.7868	3,294.7868	0.1034		3,297.3726

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	lb/day										lb/day					
Hauling	9.0000e-005	7.4800e-003	1.5600e-003	3.0000e-005	1.2500e-003	6.0000e-005	1.3200e-003	3.4000e-004	6.0000e-005	4.0000e-004		3.5094	3.5094	1.4000e-004	5.6000e-004	3.6789
Vendor	5.8300e-003	0.4341	0.0755	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.6302	217.6302	5.1200e-003	0.0323	227.3949
Worker	0.1027	0.0626	1.1634	5.4200e-003	6.8360	1.4500e-003	6.8375	0.8434	1.3300e-003	0.8448		547.8455	547.8455	2.9300e-003	0.0105	551.0368
Total	0.1087	0.5042	1.2405	7.4800e-003	6.9295	4.4900e-003	6.9340	0.8703	4.2400e-003	0.8745		768.9850	768.9850	8.1900e-003	0.0434	782.1105

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Substation - 2050

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	lb/day										lb/day					
Off-Road	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176		9,300.9158	9,300.9158	0.2726		9,307.7317
Total	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176		9,300.9158	9,300.9158	0.2726		9,307.7317

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	lb/day										lb/day					
Hauling	3.9100e-003	0.3383	0.0706	1.4500e-003	0.0567	2.8900e-003	0.0596	0.0155	2.7700e-003	0.0183		158.6853	158.6853	6.5400e-003	0.0252	166.3484
Vendor	5.8300e-003	0.4341	0.0755	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.6302	217.6302	5.1200e-003	0.0323	227.3949
Worker	0.1027	0.0626	1.1634	5.4200e-003	20.1111	1.4500e-003	20.1126	2.1689	1.3300e-003	2.1703		547.8455	547.8455	2.9300e-003	0.0105	551.0368
Total	0.1125	0.8350	1.3096	8.9000e-003	20.2600	7.3200e-003	20.2673	2.2109	6.9500e-003	2.2179		924.1609	924.1609	0.0146	0.0680	944.7800

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Substation - 2050

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	lb/day										lb/day					
Off-Road	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176	0.0000	9,300.9158	9,300.9158	0.2726		9,307.7317
Total	3.0738	10.9166	34.7335	0.0902		0.2176	0.2176		0.2176	0.2176	0.0000	9,300.9158	9,300.9158	0.2726		9,307.7317

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	lb/day										lb/day					
Hauling	3.9100e-003	0.3383	0.0706	1.4500e-003	0.0567	2.8900e-003	0.0596	0.0155	2.7700e-003	0.0183		158.6853	158.6853	6.5400e-003	0.0252	166.3484
Vendor	5.8300e-003	0.4341	0.0755	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.6302	217.6302	5.1200e-003	0.0323	227.3949
Worker	0.1027	0.0626	1.1634	5.4200e-003	6.8360	1.4500e-003	6.8375	0.8434	1.3300e-003	0.8448		547.8455	547.8455	2.9300e-003	0.0105	551.0368
Total	0.1125	0.8350	1.3096	8.9000e-003	6.9849	7.3200e-003	6.9922	0.8854	6.9500e-003	0.8924		924.1609	924.1609	0.0146	0.0680	944.7800

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Energy Storage - 2050

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	lb/day										lb/day					
Off-Road	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781		3,043.6081	3,043.6081	0.1080		3,046.3075
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781		3,043.6081	3,043.6081	0.1080		3,046.3075

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	lb/day										lb/day					
Hauling	2.9000e-004	0.0251	5.2400e-003	1.1000e-004	4.2000e-003	2.1000e-004	4.4200e-003	1.1500e-003	2.1000e-004	1.3600e-003		11.7734	11.7734	4.9000e-004	1.8700e-003	12.3420
Vendor	5.8300e-003	0.4341	0.0755	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.6302	217.6302	5.1200e-003	0.0323	227.3949
Worker	0.0632	0.0385	0.7159	3.3400e-003	12.3761	8.9000e-004	12.3770	1.3347	8.2000e-004	1.3355		337.1357	337.1357	1.8000e-003	6.4400e-003	339.0996
Total	0.0693	0.4977	0.7967	5.4800e-003	12.4725	4.0800e-003	12.4766	1.3624	3.8800e-003	1.3663		566.5393	566.5393	7.4100e-003	0.0407	578.8364

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Energy Storage - 2050

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	lb/day										lb/day					
Off-Road	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781	0.0000	3,043.6081	3,043.6081	0.1080		3,046.3075
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2127	5.0838	13.3869	0.0321		0.0781	0.0781		0.0781	0.0781	0.0000	3,043.6081	3,043.6081	0.1080		3,046.3075

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	lb/day										lb/day					
Hauling	2.9000e-004	0.0251	5.2400e-003	1.1000e-004	4.2000e-003	2.1000e-004	4.4200e-003	1.1500e-003	2.1000e-004	1.3600e-003		11.7734	11.7734	4.9000e-004	1.8700e-003	12.3420
Vendor	5.8300e-003	0.4341	0.0755	2.0300e-003	0.0922	2.9800e-003	0.0952	0.0265	2.8500e-003	0.0294		217.6302	217.6302	5.1200e-003	0.0323	227.3949
Worker	0.0632	0.0385	0.7159	3.3400e-003	4.2068	8.9000e-004	4.2077	0.5190	8.2000e-004	0.5199		337.1357	337.1357	1.8000e-003	6.4400e-003	339.0996
Total	0.0693	0.4977	0.7967	5.4800e-003	4.3032	4.0800e-003	4.3073	0.5467	3.8800e-003	0.5506		566.5393	566.5393	7.4100e-003	0.0407	578.8364

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	15.00	7.50	8.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day						
NaturalGas 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
NaturalGas 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

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

Sloughhouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	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

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	lb/day										lb/day					
Mitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sloughouse Solar Project - Decom - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
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11.0 Vegetation

Model Output: OFFROAD2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Sacramento (SV)

Calendar Year: 2022

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Yr	Vehicle Cat	Model Year	Horsepower	Fuel	HC_tpd	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2.5_tpd	TOG_tpd	CO2_tpd	NH3_tpd	Fuel Consu	Total_Activ	Total_Population	Horsepower_Hours_hh	
Sacramento	2022	Agricultura	Aggregate	Aggregate	Gasoline	0.011438	0.01384	0.006307	0.147884	1.20E-05	0.000458	0.000421	0.01647	1.3509264	1.10E-05	43782.14	7886.192	142.4898	55.34565	1402114
Sacramento	2022	Agricultura	Aggregate	Aggregate	Diesel	0.00078	0.000943	0.00441	0.00506	6.19E-06	0.000216	0.000198	0.001123	0.6817774	5.56E-06	22095.71	16721.96	45.56896	366.9595	952236.7
Sacramento	2022	Agricultura	Aggregate	Aggregate	Electric	0	0	0	0	0	0	0	0	0	0	0	495.4997	10.60584		62244.28
							0.014783	0.010717	0.152944	1.82E-05	0.000673	0.00062		2.0327038			24608.15	188.0588		
					lb/day		29.57	21.43	305.89	0.04	1.35	1.24		4065.41				67.4196		
					lb/hr		82.47	59.79	853.24	0.1	3.76	3.46		11339.96			0.358503			
					lb/hr/vehicle		0.44	0.32	4.54	0	0.02	0.02		60.3						
					lb/day		35.08	25.43	362.97	0.04	1.6	1.47		4824.01						
					tpy		1.53	1.11	15.79	0	0.07	0.06		209.84						
													MT	190.37						

Model Output: OFFROAD2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Sacramento (SV)

Calendar Year: 2050

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Yr	Vehicle Cat	Model Year	Horsepower	Fuel	HC_tpd	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2.5_tpd	TOG_tpd	CO2_tpd	NH3_tpd	Fuel Consu	Total_Activ	Total_Population	Horsepower_Hours_hhpy	
Sacramento	2050	Agricultura	Aggregate	Aggregate	Gasoline	0.006255	0.007568	0.004154	0.10673	1.04E-05	0.000359	0.000331	0.009007	1.1604714	9.46E-06	37609.69	7942.619	116.4051	1204443	
Sacramento	2050	Agricultura	Aggregate	Aggregate	Diesel	0.000276	0.000334	0.003065	0.003978	5.55E-06	5.54E-05	5.09E-05	0.000398	0.6096574	4.97E-06	19758.37	18478.64	40.83975	850971.7	
Sacramento	2050	Agricultura	Aggregate	Aggregate	Electric	0	0	0	0	0	0	0	0	0	0	0	499.0105	8.923819		52426.08
							0.01	0.01	0.11	0.00	0.00	0.00		1.77			26421.26	157.2448		
					lb/day		15.81	14.44	221.42	0.03	0.83	0.76		3540.26				72.38702		
					lb/hr		34.33	31.36	480.98	0.07	1.80	1.66		7690.43			0.460346			
					lb/hr/vehicle		0.22	0.20	3.06	0.00	0.01	0.01		48.91						
					lb/day		17.47	15.96	244.70	0.04	0.92	0.84		3912.59						
					tpy		0.72	0.65	10.03	0.00	0.04	0.03		160.42						
													MT	145.53						

Year	SMUD GHG Emission Factor	Avoided GHG Emissions
	lb CO ₂ e/MWh	MTCO ₂ e
		-
		-
		-
		-
2021	360.00	-
2022	345.00	-
2023	330.00	19,459.14
2024	315.00	18,574.63
2025	300.00	17,690.12
2026	285.00	16,805.62
2027	270.00	15,921.11
2028	255.00	15,036.60
2029	240.00	14,152.10
2030	225.00	13,267.59
2031	210.00	12,383.09
2032	195.00	11,498.58
2033	180.00	10,614.07
2034	165.00	9,729.57
2035	150.00	8,845.06
2036	135.00	7,960.56
2037	120.00	7,076.05
2038	105.00	6,191.54
2039	90.00	5,307.04
2040	75.00	4,422.53
2041	60.00	3,538.02
2042	45.00	2,653.52
2043	30.00	1,769.01
2044	15.00	884.51
2045	0.00	0.00

Total **223,780.06**

Appendix G Noise

Appendix NOISE

Noise-sensitive land uses generally consist of uses where noise exposure would result in adverse effects on uses for which quiet is an essential element of their intended purpose. Residential dwellings are of primary concern because of the potential for increased and prolonged exposure of individuals to both interior and exterior noise. Other examples of noise-sensitive land uses include nursing homes, schools, hospitals, libraries, childcare facilities, and places of worship.

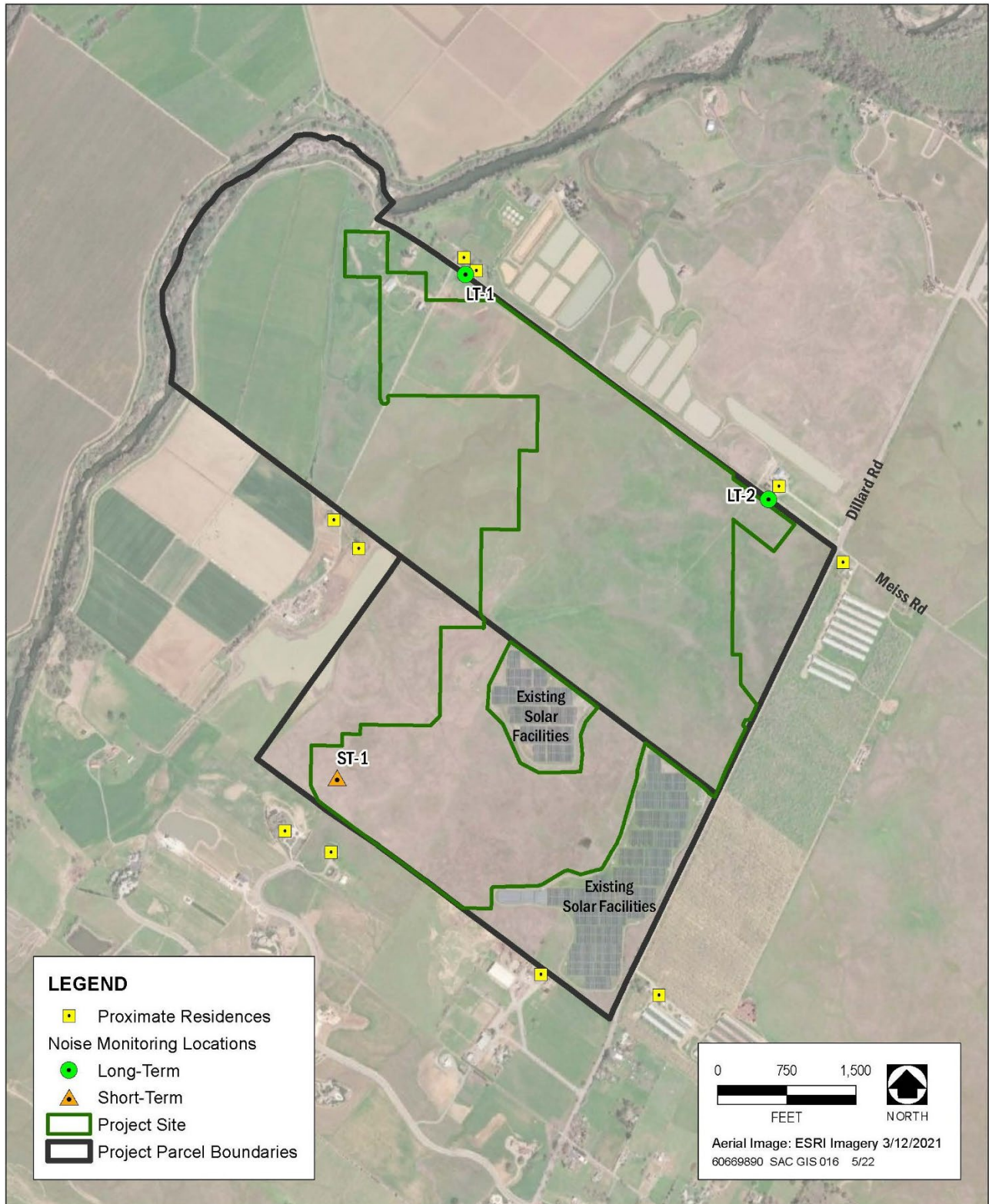
The proposed project site is located in Sacramento County, approximately 1.7 miles south of State Route 16 (SR 16), and approximately 800 feet west of Dillard Road. Noise-sensitive land uses in the project area include single-family residences south of the project site, to the north of the project site along Meiss Road, and east of the project site along Dillard Road. The nearest noise-sensitive land uses to the proposed project facilities is a residence on Meiss Road that is within 50 feet of the project site, approximately 1,000 feet west of Dillard Road. Figure 3.9-1 shows the nearby sensitive land uses and the noise monitoring locations discussed below.

A community noise survey was conducted on May 3rd through May 4th, 2022, to document the existing noise environment at various locations within the proposed project area. The dominant noise source identified during the ambient noise survey was traffic from Dillard Road and distant SR 16.¹

Community noise survey locations are shown in Figure 3.9-1. The L_{eq} , and L_{max} values were taken at two long-term (LT) and one short-term (ST) ambient noise location, with the results presented in Table 3.9-b. During the survey, average daytime ambient noise levels ranged from 39 dB to 55 dB L_{eq} , with maximum noise levels that ranged from 55 dB to 81 dB L_{max} .

¹ Measurements of noise levels were taken in accordance with ANSI standards. Continuous 24-hour, long-term (LT) monitoring of noise levels was conducted at two locations, and 1-hour monitoring at one short-term (ST) location, using Larson Davis Laboratories (LDL) Model 820 sound-level meters. The sound-level meters were calibrated before and after use with an LDL Model CAL200 acoustical calibrator to ensure that the measurements would be accurate. The equipment used meets all pertinent specifications of the ANSI for Type 1 sound-level meters (ANSI S1.4-1983[R2006]).

Figure 3.9-1: Sensitive Land Use and Noise Monitoring Locations



Source: AECOM 2022

Table 3.9-b. Summary of Measured Ambient Noise Levels, dBA

Site	Location	Date	Duration	L _{dn}	Daytime (7 a.m.–10 p.m.) L _{eq} \ L _{max}	Nighttime (10 p.m.–7 a.m.) L _{eq} \ L _{max}
LT-1	Within Project Site (Northern Boundary)	5/3/22 – 5/4/22	24 Hour	54.8	49.7 \ 72.8	48.1 \ 56.1
LT-2	Within Project Site (Southern Boundary)	5/3/22 – 5/4/22	24 Hour	59.1	54.8 \ 80.7	52.2 \ 66.6
ST-1	East of Project Site (Krave Jerky Outside Seating Area)	5/4/22	1 Hour	--	39.0 \ 55.4	--

Notes: dBA = A-weighted decibels; L_{dn} = day-night average noise level; L_{eq} = the equivalent hourly average noise level; L_{max} = maximum noise level.

Monitoring locations correspond to those depicted in Figure 3.9-1.

Source: Data collected by AECOM 2022

EXISTING NOISE SOURCES

The principal noise source near the project area is vehicular traffic on nearby roadways and from distant SR 16. Noise from operation and maintenance of the existing solar facility southeast of the proposed project site and noise from overhead aircraft also contribute, to a lesser extent, to the existing noise environment.

Existing vehicle traffic noise levels in the project area were modeled using the Federal Highway Administration (FHWA)² Highway Traffic Noise Prediction Model (FHWA-RD-77-108) and traffic data was used from the County Traffic Count data³ and Caltrans Traffic Counts.⁴

Table 3.9-t summarizes the modeled traffic noise levels, provides noise levels from the centerline of roadways currently affecting the project area, and lists distances from the modeled roadway centerlines and the distances to the 60 dB, 65 dB, and 70 dB L_{dn} traffic noise contours. The extent to which noise-sensitive uses in the area are affected by existing traffic noise depends on their respective proximity to the roadways and their sensitivity to noise.

² The FHWA model is based on CALVENO reference noise factors for automobiles, medium trucks, and heavy trucks, with consideration given to vehicle volume, speed, roadway configuration, distance to the receptor, and ground attenuation factors.

³ <https://data.saccounty.gov/datasets/traffic-count-data/explore?showTable=true>

⁴ <https://dot.ca.gov/programs/traffic-operations/census>

Table 3.9-t. Summary of Modeled Levels of Existing Traffic Noise

Roadway	Segment		Distance	Noise Level, dB	Distance (feet) from Roadway Centerline to L _{dn} Contour		
	From	To			70 dB	65 dB	60 dB
State Route 16	West of Dillard Road	East of Dillard Road	50	69.1	44	94	203
Dillard Road	Meiss Road	South of Meiss Road	50	61.6	14	30	64
Meiss Road	Dillard Road	West of Dillard Road	50	49.1	2	4	9

Notes: dB = A-weighted decibels; L_{dn} = day-night average noise level.
 Source: Data modeled by AECOM in 2022

The Federal Noise Control Act of 1972 (Public Law 92-574) established a requirement that all federal agencies administer their programs to promote an environment free of noise that would jeopardize public health or welfare.⁵ Although the U.S. Environmental Protection Agency (EPA) was given a major role in disseminating information to the public and coordinating federal agencies, each federal agency retains authority to adopt noise regulations pertaining to agency programs.⁶

In 1974, in response to the requirements of the federal Noise Control Act, the EPA identified indoor and outdoor noise level limits to protect public health and welfare (communication disruption, sleep disturbance, and hearing damage). Outdoor and indoor noise exposure limits of 55 dB L_{dn} and 45 dB L_{dn}, respectively, are identified as desirable to protect against speech interference and sleep disturbance for residential, educational, and healthcare areas. The sound-level criterion identified to protect against hearing damage in commercial and industrial areas is 70 dB 24-hour L_{eq} (both outdoors and indoors).

In 1971, the State required cities and counties to include noise elements in their general plans (Government Code Section 65302 et seq.). The State of California General Plan Guidelines (Office of Planning and Research 2017) identify guidelines for the noise elements of local general plans, including a sound level/land-use compatibility chart. The noise element guidelines identify the “normally acceptable” range of noise exposure for low-density residential uses as less than 60 dB L_{dn}, and the “conditionally acceptable” range as 55-70 dB L_{dn}. Overlapping noise level ranges are intended to indicate that local conditions (existing sound levels and community attitudes toward dominant sound

⁵ The U.S. Environmental Protection Agency (EPA) was given the responsibility for providing information to the public regarding identifiable effects of noise on public health and welfare, publishing information on the levels of environmental noise that will protect the public health and welfare with an adequate margin of safety, coordinating federal research and activities related to noise control, and establishing federal noise emission standards for selected products distributed in interstate commerce. The Noise Control Act also directed that all federal agencies comply with applicable federal, State, interstate, and local noise control regulations.

⁶ The EPA can, however, require other federal agencies to justify their noise regulations in terms of the Noise Control Act policy requirements.

sources) should be considered in evaluating land use compatibility at specific locations. The State’s guidance for land use/noise compatibility is summarized in Table 3.9-u.

Table 3.9-u. Land Use Noise Compatibility Guidelines

Land Use Category	Community Noise Exposure (CNEL/L _{dn} , dBA)			
	Normally Acceptable ¹	Conditionally Acceptable ²	Normally Unacceptable ³	Clearly Unacceptable ⁴
Residential-Low Density Single Family, Duplex, Mobile Home	<60	55–70	70–75	75+
Residential-Multiple Family	<65	60–70	70–75	75+
Transient Lodging, Motel, Hotel	<65	60–70	70–80	80+
School, Library, Church, Hospital, Nursing Home	<70	60–70	70–80	80+
Auditorium, Concert Hall, Amphitheater		<70	65+	
Sports Arenas, Outdoor Spectator Sports		<75	70+	
Playground, Neighborhood Park	<70		67.5–75	72.5+
Golf Courses, Stable, Water Recreation, Cemetery	<75		70–80	80+
Office Building, Business Commercial and Professional	<70	67.5–77.5	75+	
Industrial, Manufacturing, Utilities, Agriculture	<75	70–80	75+	

Notes: CNEL = Community Noise Equivalent Level; dBA = A-weighted decibels; L_{dn} = day-night average noise level.

¹ Specified land use is satisfactory, based on the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

² New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features are included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

³ New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design. Outdoor areas must be shielded.

⁴ New construction or development should generally not be undertaken.

Source: OPR 2017

The County of Sacramento General Plan Noise Element contains policies related to land use and noise compatibility. Relevant County policies are presented for context.

NO-6. Where a project would consist of or include non-transportation noise sources, the noise generation of those sources shall be mitigated so as not exceed the interior and exterior noise level standards of Table 3.9-1 at existing noise-sensitive areas in the project vicinity.

NO-8. Noise associated with construction activities shall adhere to the County Code requirements. Specifically, Section 6.68.090(e) addresses construction noise within the County.

NO-12. All noise analyses prepared to determine compliance with the noise level standards contained within this Noise Element shall be prepared in accordance with Table 3.9-r.

NO-13. Where noise mitigation measures are required to satisfy the noise level standards of this Noise Element, emphasis shall be placed on the use of setbacks and site design to the extent feasible, prior to consideration of the use of noise barriers.

**Table 3.9-a. Non-Transportation Noise Standards
Sacramento County Noise Element Median (L₅₀) / Maximum (L_{max})¹**

[Table 2 of the Sacramento County General Plan]

Receiving Land Use	Outdoor Area ²		Interior ³	
	Daytime	Nighttime	Day & Night	Notes
All Residential	55 / 75	50 / 70	35 / 55	
Transient Lodging	55 / 75	---	35 / 55	4
Hospitals & Nursing Homes	55 / 75	---	35 / 55	5, 6
Theaters & Auditoriums	---	---	30 / 50	6
Churches, Meeting Halls, Schools, Libraries, etc.	55 / 75	---	35 / 60	6
Office Buildings	60 / 75	---	45 / 65	6
Commercial Buildings	---	---	45 / 65	6
Playgrounds, Parks, etc.	65 / 75	---	---	6
Industry	60 / 80	---	50 / 70	6

Notes:

- 1 The Table 3.9-a standards shall be reduced by 5 dB for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the standards of Table 3.9-a, then the noise level standards shall be increased at 5 dB increments to encompass the ambient.
- 2 Sensitive areas are defined acoustic terminology section.
- 3 Interior noise level standards are applied within noise-sensitive areas of the various land uses, with windows and doors in closed positions.
- 4 Outdoor activity areas of transient lodging facilities are not commonly used during nighttime hours.
- 5 Hospitals are often noise-generating uses. The exterior noise level standards for hospitals are applicable only at clearly identified areas designated for outdoor relaxation by either hospital staff or patients.
- 6 The outdoor activity areas of these uses (if any), are not typically utilized during nighttime hours.
- 7 Where median (L₅₀) noise level data is not available for a particular noise source, average (L_{eq}) values may be substituted for the standards of this table provided the noise source in question operates for at least 30 minutes of an hour. If the source in question operates less than 30 minutes per hour, then the maximum noise level standards shown would apply.

Source: County of Sacramento General Plan Noise Element 2017. Table 2.

Table 3.9-r. Requirements for Acoustical Analyses Prepared in Sacramento County

[Table 3 of the Sacramento County General Plan]

An acoustical analysis prepared pursuant to the Noise Element shall:
A. Be the responsibility of the applicant.

- B. Be prepared by qualified persons experienced in the fields of environmental noise assessment and architectural acoustics.
- C. Include representative noise level measurements with sufficient sampling periods and locations to adequately describe local conditions.
- D. Estimate projected future (20-year) noise levels in terms of the Standards of Table 2, and compare those levels to the adopted policies of the Noise Element.
- E. Recommend appropriate mitigation to achieve compliance with the adopted policies and standards of the Noise Element.
- F. Estimate interior and exterior noise exposure after the prescribed mitigation measures have been implemented.

Noise control regulations in Sacramento County are specified under Chapter 6.68 of the County Code. The ordinance contains performance standards for the purpose of preventing unnecessary, excessive and offensive noise levels at sensitive receptors within the county. Table 3.9-o includes excerpts from the Noise Control Ordinance.

Table 3.9-o. Excerpts from the County of Sacramento Noise Control Ordinance

Noise Area	County Zoning Districts	Time Period	Exterior Noise Standard
1	RE-1, RD-1, RE-2, RD-2, RE-3, RD-3, RD-4, R-1-A, RD-5, R-2, RD-10, R-2A, RD-20, R-3, R-D-30, RD-40, RM-1, RM-2, A-1-B, AR-1, A-2, AR-2, A-5, AR-5	7 a.m.–10 p.m.	55 dB
		10 p.m.–7 a.m.	50 dB

- a Noise standards, unless otherwise specifically indicated in this chapter, shall apply to all properties within a designated noise area.
- b It is unlawful for any person at any location within the County to create any noise which causes the noise levels on an affected property, when measured in the designated noise area, to exceed for the duration of time set forth following, the specified exterior noise standards in any one hour by:

Cumulative Duration of the Intrusive Sound	Allowance Decibels (dB)
1. Cumulative period of 30 minutes per hour	0
2. Cumulative period of 15 minutes per hour	+ 5
3. Cumulative period of 5 minutes per hour	+10
4. Cumulative period of 1 minute per hour	+15
5. Level not to be exceeded for any time per hour	+20

- c. Each of the noise limits specified in subdivision (b) of this section shall be reduced by five dB for impulsive or simple tone noises, or for noises consisting of speech or music.
- d. If the ambient noise level exceeds that permitted by any of the first four noise-limit categories specified in subdivision (b), the allowable noise limit shall be increased in five dB increments in each category to encompass the ambient noise level. If the ambient noise level exceeds the fifth noise level category, the maximum ambient noise level shall be the noise limit for that category.

Notes: dB = A-weighted decibels

Source: County of Sacramento Code, Noise Control 1976

Table 3.9-h. Permitted Hours of Construction and Applicable Thresholds in Sacramento County

Noise Parameter	Noise Limit
Monday through Friday	between the hours of 8 p.m. and 6 a.m.
Saturdays	between the hours of 8:00 a.m. and 7:00 a.m.
Sundays and holidays	between the hours of 8:00 a.m. and 6:00 a.m.
Applicable Thresholds (Construction)	The County controls construction noise through limitations on construction hours.
Applicable Thresholds (Operation)	Residential land uses - 55 dBA L _{dn} or less in exterior noise environment, and 35 dBA L _{dn} interior noise levels attributable to exterior noise sources.

Source: County of Sacramento.

dBA = A-weighted decibels

L_{dn} = day-night average noise level.

Section 6.68.090(e) of the County of Sacramento Code establishes conditions that are considered exempt from the associated provisions, as described below:

Noise sources associated with construction, repair, remodeling, demolition, paving or grading of any real property, provided said activities do not take place between the hours of eight p.m. and six a.m. on weekdays and Friday commencing at eight p.m. through and including seven a.m. on Saturday; Saturdays commencing at eight p.m. through and including seven a.m. on the next following Sunday and on each Sunday after the hour of eight p.m. Provided, however, when an unforeseen or unavoidable condition occurs during a construction project and the nature of the project necessitates that work in process be continued until a specific phase is completed, the contractor or owner shall be allowed to continue work after eight p.m. and to operate machinery and equipment necessary until completion of the specific work in progress can be brought to conclusion under conditions which will not jeopardize inspection acceptance or create undue financial hardships for the contractor or owner.

METHODOLOGY

To assess potential short-term, temporary (i.e., construction-related) noise impacts, sensitive receptors and their relative exposure were identified. Noise levels of specific construction equipment were determined and resultant noise levels at those receptors (at given distances from the source) were calculated. Potential long-term (i.e., operational) noise was assessed based on reconnaissance data and documented noise levels. Predicted noise levels during construction and decommissioning are shown in Table 3.9-c that were compared with applicable County standards shown in Table 3.9-h for determination of significance. Table 3.9-c shows the estimated construction noise levels at the residential uses surrounding the project site with their respective distances from the project site boundaries in the north, south, east and west directions.

Table 3.9-c. Construction and Decommissioning Noise Levels, dBA

Phase	Anticipated Type of Equipment that May Be Utilized by the Contractor	Est Noise Level at 50 ft (L_{max} , dBA / L_{eq} , dBA)		North 200 ft (L_{eq} , dBA)	North 290 ft (L_{eq} , dBA)	West 1400 ft (L_{eq} , dBA)	Southwest 450 ft (L_{eq} , dBA)	South 750 ft (L_{eq} , dBA)
		L_{max} , dBA	L_{eq} , dBA					
Construction								
Perimeter Fence Installation	Front End Loader	79	75	65	62	48	58	54
	Pickup Truck	75	71					
	Man Lift	75	68					
	Max. and Combined Noise Level	79	77					
Site Preparation	Grader	85	81	73	70	56	66	61
	Dozer	82	78					
	Roller	80	73					
	Tractor	84	80					
	Max. and Combined Noise Level	85	85					
Grading	Excavator	81	77	74	71	58	67	63
	Grader	85	81					
	Dozer	82	78					
	Scraper	84	80					
	Tractor	84	80					
	Max. and Combined Noise Level	85	86					
Demolition	Dozer	82	78	70	67	53	63	59
	Tractor	84	80					
	Max. and Combined Noise Level	84	82					
Underground Work (Trenching)	Excavator	81	77	69	65	52	62	57
	Roller	80	73					
	Compactor (ground)	83	76					

Phase	Anticipated Type of Equipment that May Be Utilized by the Contractor	Est Noise Level at 50 ft (L_{max} , dBA / L_{eq} , dBA)		North 200 ft (L_{eq} , dBA)	North 290 ft (L_{eq} , dBA)	West 1400 ft (L_{eq} , dBA)	Southwest 450 ft (L_{eq} , dBA)	South 750 ft (L_{eq} , dBA)
		L_{max} , dBA	L_{eq} , dBA					
	Man Lift	75	68					
	Max. and Combined Noise Level	83	81					
PV System Installation	Crane	81	73	82	79	65	75	71
	Man Lift	75	68					
	Flat Bed Truck	74	70					
	Impact Pile Driver	101	94					
	Pickup Truck	75	71					
	Max. and Combined Noise Level	101	94					
Substation/ Switchyard	Man Lift	75	68	74	70	57	67	62
	Crane	81	73					
	Excavator	81	77					
	Front End Loader	79	75					
	Pneumatic Tools	85	82					
	Man Lift	75	68					
	Tractor	84	80					
	Max. and Combined Noise Level	85	86					
Energy Storage System	Crane	81	73	70	67	53	63	58
	Grader	85	81					
	Man Lift	75	68					
	Max. and Combined Noise Level	85	82					
Gen-Tie Construction	Auger Drill Rig	84	77	68	65	51	61	57
	Crane	81	73					
	Front End Loader	79	75					

Phase	Anticipated Type of Equipment that May Be Utilized by the Contractor	Est Noise Level at 50 ft (L _{max} , dBA / L _{eq} , dBA)		North 200 ft (L _{eq} , dBA)	North 290 ft (L _{eq} , dBA)	West 1400 ft (L _{eq} , dBA)	Southwest 450 ft (L _{eq} , dBA)	South 750 ft (L _{eq} , dBA)
	Max. and Combined Noise Level	84	80					
Testing, Commissioning, Site Clean Up	Pickup Truck	75	71	70	67	53	63	59
	Grader	85	81					
	Front End Loader	79	75					
	Max. and Combined Noise Level	85	82					
Decommissioning								
Perimeter Fence Removal	Front End Loader	79	75	65	62	48	58	54
	Pickup Truck	75	71					
	Man Lift	75	68					
	Max. and Combined Noise Level	79	77					
PV System Removal	Crane	81	73	65	62	48	58	54
	Man Lift	75	68					
	Dump Truck	76	72					
	Pickup Truck	75	71					
	Max. and Combined Noise Level	81	77					
Substation & Switchyard demolition	Man Lift	75	68	73	69	56	66	61
	Crane	81	73					
	Excavator	81	77					
	Flat Bed Truck	74	70					
	Pneumatic Tools	85	82					
	Compactor (ground)	83	76					
	Man Lift	75	68					

Phase	Anticipated Type of Equipment that May Be Utilized by the Contractor	Est Noise Level at 50 ft (L _{max} , dBA / L _{eq} , dBA)		North 200 ft (L _{eq} , dBA)	North 290 ft (L _{eq} , dBA)	West 1400 ft (L _{eq} , dBA)	Southwest 450 ft (L _{eq} , dBA)	South 750 ft (L _{eq} , dBA)
		L _{max} , dBA	L _{eq} , dBA					
	Max. and Combined Noise Level	85	85					
Energy Storage System Removal	Crane	81	73	70	67	54	63	59
	Grader	85	81					
	Front End Loader	79	75					
	Max. and Combined Noise Level	85	83					
Site Cleanup and Restoration	Pickup Truck	75	71	70	67	53	63	59
	Grader	85	81					
	Front End Loader	79	75					
	Max. and Combined Noise Level	85	82					

Notes: CNEL = Community Noise Equivalent Level; dBA = A-weighted decibels; L_{dn} = day-night average noise level.
Source: FHWA 2006, Data Compiled by AECOM, 2022.

Major noise-generating construction activities could include site grading and excavation, installation of infrastructure, pile driving, paving, and landscaping. The highest construction noise levels are typically generated during pile driving and during grading and excavation and lower noise levels typically occur during fence installation.

In addition, during the approximately 8-month construction period, daily trip generation would occur for the delivery of equipment and supplies and the commuting of the construction workforce. The number of workers expected on-site during the construction of the project would vary over the construction period and would likely average 150 construction workers (300 total trips per day) that would be employed at the project site during peak construction phases, PV System Installation and PV System Removal. Deliveries of equipment and supplies to the site would also vary over the construction period but have the potential to range from 5 to 40 round trips, averaging approximately 10 daily round trips. During the approximately 2 months of grading activity, an additional 217 truck trips per day would be generated to haul off excess grading material, resulting in an estimated peak of 597 trips per day during construction (300 worker trips, 80 delivery trips, and 217 haul trips). As shown in Table 3.9-m, these trips added to existing traffic volumes along the existing nearby roadways would result in a noise increase of up to 3 dB at the nearest noise-sensitive uses from Dillard Road centerlines. However,

construction traffic noise would result in a peak noise increase of 14 dB at the nearest noise-sensitive uses from the Meiss Road centerline during the 2-month grading period.

Table 3.9-m. Summary of Modeled Levels of Existing plus Construction Traffic Noise

Roadway	Segment From	Segment To	Distance	Existing Traffic Noise Level, dB	Construction Traffic Noise Level, dB	Combined Noise Level, dB	Increase Over Existing, dB
State Route 16	West of Dillard Road	East of Dillard Road	50	69.1	62.9	70.1	0.3
Dillard Road	Meiss Road	South of Meiss Road	50	61.6	62.4	65.0	3.4
Meiss Road	Dillard Road	West of Dillard Road	50	49.1	62.4	62.6	13.5

Notes: dB = A-weighted decibels; L_{dn} = day-night average noise level.

Source: Data modeled by AECOM in 2022

Construction activities that occur within the hours prescribed by the County Noise ordinance (refer to Table 3.9-h) are exempt from the County noise standards, and as a result would not violate County standards. Thus, the impact of construction noise, including that resulting from construction-related traffic, which occurs during daytime hours conforming to the County Noise ordinance, would be minimal.

However, project construction could expose existing off-site sensitive receptors to equipment noise levels that exceed the ambient noise conditions during evening and nighttime hours (i.e., outside the hours prescribed in the Noise Ordinance). As noted previously, the nearest sensitive receptor to the project site approximately 50 feet north along Meiss Road would be subject to noise levels ranging from 77 to 94 dBA. As a result, nighttime construction could substantially exceed the measured ambient noise levels shown in Table 3.9-b, as well as the applicable exterior nighttime noise standard of 50 dB provided on Table 3.9-a. Moreover, with the assumption that closed windows would reduce interior noise levels by 25 dB, the resulting interior noise level of 52 to 68 dBA would exceed the interior nighttime noise standard of 35 dB provided on Table 3.9-a as well as the EPA sleep disturbance criteria of 45 dB L_{dn}. Therefore, construction activities occurring during the evening and nighttime hours would result in a moderate noise impact.

While noise would attenuate with distance, as shown on Table 3.9-c at a distance of 750 feet most project construction activities would still exceed the ambient levels and the County's exterior nighttime noise standard. However, portions of the project site are sufficiently distant from adjacent receptors to attenuate construction noise to levels below the County's standards, as reflected in the recommended mitigation measures including

pile driving shall be limited to the hours between 7 a.m. and 8 p.m. Monday through Friday, and between 8 a.m. and 6 p.m. the following Saturdays and Sundays.

During operation of the proposed project, noise results from both maintenance and operational activities. While maintenance activities for the proposed project, including periodic inspections and as-needed repair or replacement of panels, power distribution facilities, and fencing along with ongoing sheep grazing, weed management, and periodic panel washing, result in noise, the limited scale, intensity, and periodicity of these maintenance activities would result in minimal noise impact.

On the other hand, daily operational activities would result in noise impacts. As shown on Table 3.9-d, the highest operational noise levels would occur from the inverter and HVAC system (i.e., 58 dBA at 75 feet). Because the project would provide backup battery power, the inverter/HVAC facilities would be operational during evening and nighttime hours. To comply with the County’s exterior nighttime noise limitation of 50 dB as provided in 3.9-a, based on a noise rating of 58 dBA at 75 feet from the inverter and HVAC system, such facilities would need to be located approximately 200 feet from the nearest noise-sensitive land use. Since the nearest residences along Meiss Road are approximately 50 feet north of the project site (refer to Figure 3.9-1, Sensitive Land Use and Noise Monitoring Locations for the location of nearby residences and Figure 1.2-2, Conceptual Site Layout for the proposed site plan and layout), noise levels from the inverter and HVAC system would be moderate.

Table 3.9-d. Estimated Noise Rating of Project Facilities

Equipment	Reference Noise Level (dBA L_{eq})	Distance from Source (feet)
Gen-Tie 1	20	50
PV Panel	44	50
Inverter (unenclosed)	52	75
Inverter (enclosed with HVAC system)	58	75
Transformer	58	3.3
Solar Panel Tracking Motors	58	1

Sources: U.S. Department of Energy 2011; San Luis Obispo County 2011; Illingworth and Rodkin 2009; Kern County 2014; Monterey County 2014

Because County noise standards, as prescribed by the County General Plan Noise Element, include the nighttime standard of 50 dB L₅₀, the site building plan would be modified to result in nighttime operation of the proposed project facilities not exceeding nighttime standards of 50 dBA. Mitigation measures would be implemented ensuring noise-generating facilities are designed and sited in a manner (i.e., distanced or enclosed) to reduce noise levels below the applicable County noise standards. With implementation of these mitigation measures, the noise impact resulting from operational activities of the proposed project facilities would be minimal.