

Paso Robles Solar - San Luis Obispo County, Annual

**Paso Robles Solar**  
**San Luis Obispo County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	24.60	User Defined Unit	24.60	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

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Project Characteristics -

Land Use - site size

Construction Phase - 40 days grading, 80 days construction

Off-road Equipment -

Off-road Equipment - Construction: 1 gen set, 2 loaders/backhoes, 3 welders, 3 trenchers, 2 rough terrain forklifts

Off-road Equipment - Grading: 2 graders, 1 dozer, 2 loader/backhoes

Trips and VMT - 20 worker trips grading, 70 trips construction, 40 haul trips at 130 miles round trips (within air basin)

On-road Fugitive Dust - SLO Region Values per CALEEMOD user guide

.25 mile unpaved roads

Grading -

Vehicle Trips - 2 trips per week modeled as 1 per day max

Road Dust - reflects .25 miles unpaved road and CARBs 2.0 (lb PMT/VMT) and 0.2 (lb PM2.5/VMT)

Construction Off-road Equipment Mitigation -

Fleet Mix - Pickup trucks LDT2

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.1
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	32.4
tblConstructionPhase	NumDays	370.00	80.00
tblConstructionPhase	NumDays	35.00	40.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.8720e-003	0.00
tblFleetMix	MCY	5.6300e-003	0.00
tblFleetMix	MDV	0.13	0.00

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tblFleetMix	MH	1.8520e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	2.4040e-003	0.00
tblFleetMix	SBUS	8.2500e-004	0.00
tblFleetMix	UBUS	1.3200e-003	0.00
tblLandUse	LotAcreage	0.00	24.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.80
tblOnRoadDust	HaulingPercentPave	100.00	99.80
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	VendorPercentPave	100.00	98.70
tblOnRoadDust	VendorPercentPave	100.00	98.70
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblRoadDust	RoadPercentPave	100	98

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CalEEMod Version: CalEEMod.2016.3.1

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tblTripsAndVMT	HaulingTripLength	20.00	130.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripLength	5.00	20.00
tblTripsAndVMT	VendorTripLength	5.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	70.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	2.00

## 2.0 Emissions Summary

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### 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					
2017	0.2503	2.0368	1.4153	2.5400e-003	1.8365	0.1182	1.9547	0.2445	0.1110	0.3555	0.0000	228.1641	228.1641	0.0463	0.0000	229.3209
Maximum	0.2503	2.0368	1.4153	2.5400e-003	1.8365	0.1182	1.9547	0.2445	0.1110	0.3555	0.0000	228.1641	228.1641	0.0463	0.0000	229.3209

#### 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					
2017	0.2503	2.0368	1.4153	2.5400e-003	1.8365	0.1182	1.9547	0.2445	0.1110	0.3555	0.0000	228.1639	228.1639	0.0463	0.0000	229.3207
Maximum	0.2503	2.0368	1.4153	2.5400e-003	1.8365	0.1182	1.9547	0.2445	0.1110	0.3555	0.0000	228.1639	228.1639	0.0463	0.0000	229.3207

	ROG	NOx	CO	SO2	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

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2017	4-1-2017	1.2618	1.2618
2	4-2-2017	7-1-2017	0.9926	0.9926
		Highest	1.2618	1.2618

### 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	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.1000e-004	8.1000e-004	0.0000	0.0000	8.6000e-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	0.0107	5.2600e-003	0.0535	1.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	1.1450	1.1450	2.7000e-004	0.0000	1.1517
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0108</b>	<b>5.2600e-003</b>	<b>0.0539</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1458</b>	<b>1.1458</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.1525</b>

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### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.1000e-004	8.1000e-004	0.0000	0.0000	8.6000e-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	0.0107	5.2600e-003	0.0535	1.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	1.1450	1.1450	2.7000e-004	0.0000	1.1517
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0108</b>	<b>5.2600e-003</b>	<b>0.0539</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1458</b>	<b>1.1458</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.1525</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/2/2017	2/24/2017	5	40	
2	Building Construction	Building Construction	2/25/2017	6/16/2017	5	80	

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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 40**

**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
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	6.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Trenchers	3	6.00	78	0.50
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Cranes	0	7.00	231	0.29
Grading	Excavators	0	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Grading	Scrapers	0	8.00	367	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	20.00	10.00	0.00	13.00	20.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	70.00	5.00	40.00	13.00	20.00	130.00	LD_Mix	HDT_Mix	HHDT



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### 3.1 Mitigation Measures Construction

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Grading - 2017

#### 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					0.1417	0.0000	0.1417	0.0685	0.0000	0.0685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0587	0.6879	0.2667	5.6000e-004		0.0320	0.0320		0.0294	0.0294	0.0000	52.1269	52.1269	0.0160	0.0000	52.5262
<b>Total</b>	<b>0.0587</b>	<b>0.6879</b>	<b>0.2667</b>	<b>5.6000e-004</b>	<b>0.1417</b>	<b>0.0320</b>	<b>0.1736</b>	<b>0.0685</b>	<b>0.0294</b>	<b>0.0979</b>	<b>0.0000</b>	<b>52.1269</b>	<b>52.1269</b>	<b>0.0160</b>	<b>0.0000</b>	<b>52.5262</b>

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### 3.2 Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3800e-003	0.0644	0.0195	1.3000e-004	0.0950	1.0200e-003	0.0961	0.0102	9.7000e-004	0.0111	0.0000	12.8640	12.8640	5.8000e-004	0.0000	12.8784
Worker	2.4500e-003	2.3800e-003	0.0207	4.0000e-005	0.1867	3.0000e-005	0.1867	0.0193	3.0000e-005	0.0193	0.0000	3.5206	3.5206	1.6000e-004	0.0000	3.5246
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0668</b>	<b>0.0403</b>	<b>1.7000e-004</b>	<b>0.2817</b>	<b>1.0500e-003</b>	<b>0.2828</b>	<b>0.0294</b>	<b>1.0000e-003</b>	<b>0.0304</b>	<b>0.0000</b>	<b>16.3845</b>	<b>16.3845</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>16.4030</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1417	0.0000	0.1417	0.0685	0.0000	0.0685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0587	0.6879	0.2667	5.6000e-004		0.0320	0.0320		0.0294	0.0294	0.0000	52.1268	52.1268	0.0160	0.0000	52.5261
<b>Total</b>	<b>0.0587</b>	<b>0.6879</b>	<b>0.2667</b>	<b>5.6000e-004</b>	<b>0.1417</b>	<b>0.0320</b>	<b>0.1736</b>	<b>0.0685</b>	<b>0.0294</b>	<b>0.0979</b>	<b>0.0000</b>	<b>52.1268</b>	<b>52.1268</b>	<b>0.0160</b>	<b>0.0000</b>	<b>52.5261</b>

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### 3.2 Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3800e-003	0.0644	0.0195	1.3000e-004	0.0950	1.0200e-003	0.0961	0.0102	9.7000e-004	0.0111	0.0000	12.8640	12.8640	5.8000e-004	0.0000	12.8784
Worker	2.4500e-003	2.3800e-003	0.0207	4.0000e-005	0.1867	3.0000e-005	0.1867	0.0193	3.0000e-005	0.0193	0.0000	3.5206	3.5206	1.6000e-004	0.0000	3.5246
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0668</b>	<b>0.0403</b>	<b>1.7000e-004</b>	<b>0.2817</b>	<b>1.0500e-003</b>	<b>0.2828</b>	<b>0.0294</b>	<b>1.0000e-003</b>	<b>0.0304</b>	<b>0.0000</b>	<b>16.3845</b>	<b>16.3845</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>16.4030</b>

### 3.3 Building Construction - 2017

#### 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	0.1637	1.1586	0.9341	1.3000e-003		0.0835	0.0835		0.0790	0.0790	0.0000	112.7654	112.7654	0.0274	0.0000	113.4510
<b>Total</b>	<b>0.1637</b>	<b>1.1586</b>	<b>0.9341</b>	<b>1.3000e-003</b>		<b>0.0835</b>	<b>0.0835</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>112.7654</b>	<b>112.7654</b>	<b>0.0274</b>	<b>0.0000</b>	<b>113.4510</b>

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### 3.3 Building Construction - 2017

#### 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	1.5300e-003	0.0423	9.5700e-003	1.0000e-004	0.0114	4.8000e-004	0.0118	1.5200e-003	4.6000e-004	1.9800e-003	0.0000	9.3793	9.3793	4.2000e-004	0.0000	9.3899
Vendor	3.3800e-003	0.0644	0.0195	1.3000e-004	0.0950	1.0200e-003	0.0961	0.0102	9.7000e-004	0.0111	0.0000	12.8640	12.8640	5.8000e-004	0.0000	12.8784
Worker	0.0171	0.0167	0.1451	2.7000e-004	1.3067	2.0000e-004	1.3069	0.1349	1.8000e-004	0.1351	0.0000	24.6440	24.6440	1.1400e-003	0.0000	24.6724
<b>Total</b>	<b>0.0220</b>	<b>0.1234</b>	<b>0.1742</b>	<b>5.0000e-004</b>	<b>1.4131</b>	<b>1.7000e-003</b>	<b>1.4148</b>	<b>0.1466</b>	<b>1.6100e-003</b>	<b>0.1482</b>	<b>0.0000</b>	<b>46.8872</b>	<b>46.8872</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>46.9407</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1637	1.1586	0.9341	1.3000e-003		0.0835	0.0835		0.0790	0.0790	0.0000	112.7653	112.7653	0.0274	0.0000	113.4509
<b>Total</b>	<b>0.1637</b>	<b>1.1586</b>	<b>0.9341</b>	<b>1.3000e-003</b>		<b>0.0835</b>	<b>0.0835</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>112.7653</b>	<b>112.7653</b>	<b>0.0274</b>	<b>0.0000</b>	<b>113.4509</b>

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### 3.3 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5300e-003	0.0423	9.5700e-003	1.0000e-004	0.0114	4.8000e-004	0.0118	1.5200e-003	4.6000e-004	1.9800e-003	0.0000	9.3793	9.3793	4.2000e-004	0.0000	9.3899
Vendor	3.3800e-003	0.0644	0.0195	1.3000e-004	0.0950	1.0200e-003	0.0961	0.0102	9.7000e-004	0.0111	0.0000	12.8640	12.8640	5.8000e-004	0.0000	12.8784
Worker	0.0171	0.0167	0.1451	2.7000e-004	1.3067	2.0000e-004	1.3069	0.1349	1.8000e-004	0.1351	0.0000	24.6440	24.6440	1.1400e-003	0.0000	24.6724
<b>Total</b>	<b>0.0220</b>	<b>0.1234</b>	<b>0.1742</b>	<b>5.0000e-004</b>	<b>1.4131</b>	<b>1.7000e-003</b>	<b>1.4148</b>	<b>0.1466</b>	<b>1.6100e-003</b>	<b>0.1482</b>	<b>0.0000</b>	<b>46.8872</b>	<b>46.8872</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>46.9407</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0107	5.2600e-003	0.0535	1.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	1.1450	1.1450	2.7000e-004	0.0000	1.1517
Unmitigated	0.0107	5.2600e-003	0.0535	1.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	4.0000e-005	4.0000e-005	0.0000	1.1450	1.1450	2.7000e-004	0.0000	1.1517

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	49.20	0.00	0.00		
Total	49.20	0.00	0.00		

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	13.00	5.00	5.00	100.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

### 5.0 Energy Detail

Historical Energy Use: N

# Paso Robles Airport Solar Project

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### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	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	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.1000e-004	8.1000e-004	0.0000	0.0000	8.6000e-004
Unmitigated	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.1000e-004	8.1000e-004	0.0000	0.0000	8.6000e-004

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### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.1000e-004	8.1000e-004	0.0000	0.0000	8.6000e-004
<b>Total</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.6000e-004</b>

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.1000e-004	8.1000e-004	0.0000	0.0000	8.6000e-004
<b>Total</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.6000e-004</b>

### 7.0 Water Detail

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Annual

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined	0	0.0000	0.0000	0.0000	0.0000
Industrial					
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined	0	0.0000	0.0000	0.0000	0.0000
Industrial					
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

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

Equipment Type	Number
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## 11.0 Vegetation

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# Paso Robles Airport Solar Project

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Paso Robles Solar - San Luis Obispo County, Winter

## Paso Robles Solar San Luis Obispo County, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	24.60	User Defined Unit	24.60	0.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

Project Characteristics -

Land Use - site size

Construction Phase - 40 days grading, 80 days construction

Off-road Equipment -

Off-road Equipment - Construction: 1 gen set, 2 loaders/backhoes, 3 welders, 3 trenchers, 2 rough terrain forklifts

Off-road Equipment - Grading: 2 graders, 1 dozer, 2 loader/backhoes

Trips and VMT - 20 worker trips grading, 70 trips construction, 40 haul trips at 130 miles round trips (within air basin)

On-road Fugitive Dust - SLO Region Values per CALEEMOD user guide  
.25 mile unpaved roads

Grading -

Vehicle Trips - 2 trips per week modeled as 1 per day max

Road Dust - reflects .25 miles unpaved road and CARBs 2.0 (lb PMT/VMT) and 0.2 (lb PM2.5/VMT)

Construction Off-road Equipment Mitigation -

Fleet Mix - Pickup trucks LDT2

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.1
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	32.4
tblConstructionPhase	NumDays	370.00	80.00
tblConstructionPhase	NumDays	35.00	40.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.8720e-003	0.00
tblFleetMix	MCY	5.6300e-003	0.00
tblFleetMix	MDV	0.13	0.00



# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

tblFleetMix	MH	1.8520e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	2.4040e-003	0.00
tblFleetMix	SBUS	8.2500e-004	0.00
tblFleetMix	UBUS	1.3200e-003	0.00
tblLandUse	LotAcreage	0.00	24.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.80
tblOnRoadDust	HaulingPercentPave	100.00	99.80
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	VendorPercentPave	100.00	98.70
tblOnRoadDust	VendorPercentPave	100.00	98.70
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblRoadDust	RoadPercentPave	100	98

# Paso Robles Airport Solar Project

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## Paso Robles Solar - San Luis Obispo County, Winter

tblTripsAndVMT	HaulingTripLength	20.00	130.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripLength	5.00	20.00
tblTripsAndVMT	VendorTripLength	5.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	70.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	2.00

## 2.0 Emissions Summary

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# Paso Robles Airport Solar Project

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Paso Robles Solar - San Luis Obispo County, Winter

## 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					
2017	4.6913	37.7048	27.7584	0.0450	40.0808	2.1287	42.2095	5.0863	2.0145	6.6079	0.0000	4,392.188 7	4,392.188 7	0.9215	0.0000	4,412.561 2
<b>Maximum</b>	<b>4.6913</b>	<b>37.7048</b>	<b>27.7584</b>	<b>0.0450</b>	<b>40.0808</b>	<b>2.1287</b>	<b>42.2095</b>	<b>5.0863</b>	<b>2.0145</b>	<b>6.6079</b>	<b>0.0000</b>	<b>4,392.188 7</b>	<b>4,392.188 7</b>	<b>0.9215</b>	<b>0.0000</b>	<b>4,412.561 2</b>

### 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					
2017	4.6913	37.7048	27.7584	0.0450	40.0808	2.1287	42.2095	5.0863	2.0145	6.6079	0.0000	4,392.188 7	4,392.188 7	0.9215	0.0000	4,412.561 2
<b>Maximum</b>	<b>4.6913</b>	<b>37.7048</b>	<b>27.7584</b>	<b>0.0450</b>	<b>40.0808</b>	<b>2.1287</b>	<b>42.2095</b>	<b>5.0863</b>	<b>2.0145</b>	<b>6.6079</b>	<b>0.0000</b>	<b>4,392.188 7</b>	<b>4,392.188 7</b>	<b>0.9215</b>	<b>0.0000</b>	<b>4,412.561 2</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 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	2.4000e-004	2.0000e-005	2.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3800e-003	5.3800e-003	1.0000e-005		5.7500e-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	0.0862	0.0423	0.4454	1.1000e-004	0.0000	3.0000e-004	3.0000e-004	0.0000	2.8000e-004	2.8000e-004		9.7202	9.7202	2.4000e-003		9.7803
<b>Total</b>	<b>0.0864</b>	<b>0.0424</b>	<b>0.4480</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>9.7256</b>	<b>9.7256</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>9.7861</b>

#### 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	2.4000e-004	2.0000e-005	2.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3800e-003	5.3800e-003	1.0000e-005		5.7500e-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	0.0862	0.0423	0.4454	1.1000e-004	0.0000	3.0000e-004	3.0000e-004	0.0000	2.8000e-004	2.8000e-004		9.7202	9.7202	2.4000e-003		9.7803
<b>Total</b>	<b>0.0864</b>	<b>0.0424</b>	<b>0.4480</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>9.7256</b>	<b>9.7256</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>9.7861</b>

# Paso Robles Airport Solar Project

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## Paso Robles Solar - San Luis Obispo County, Winter

	ROG	NOx	CO	SO2	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	Grading	Grading	1/2/2017	2/24/2017	5	40	
2	Building Construction	Building Construction	2/25/2017	6/16/2017	5	80	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 40**

**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

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	6.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Trenchers	3	6.00	78	0.50
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Cranes	0	7.00	231	0.29
Grading	Excavators	0	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Grading	Scrapers	0	8.00	367	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	20.00	10.00	0.00	13.00	20.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	70.00	5.00	40.00	13.00	20.00	130.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

# Paso Robles Airport Solar Project

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## Paso Robles Solar - San Luis Obispo County, Winter

### 3.2 Grading - 2017

#### 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	2.9360	34.3962	13.3333	0.0281		1.5994	1.5994		1.4714	1.4714		2,873.0036	2,873.0036	0.8803		2,895.0107
<b>Total</b>	<b>2.9360</b>	<b>34.3962</b>	<b>13.3333</b>	<b>0.0281</b>	<b>7.0826</b>	<b>1.5994</b>	<b>8.6820</b>	<b>3.4247</b>	<b>1.4714</b>	<b>4.8962</b>		<b>2,873.0036</b>	<b>2,873.0036</b>	<b>0.8803</b>		<b>2,895.0107</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1717	3.1874	0.9991	6.6600e-003	5.3821	0.0510	5.4332	0.5718	0.0488	0.6206		705.6169	705.6169	0.0322		706.4229
Worker	0.1356	0.1213	1.0473	1.9400e-003	10.5924	1.4200e-003	10.5938	1.0898	1.3200e-003	1.0911		192.4768	192.4768	8.9700e-003		192.7010
<b>Total</b>	<b>0.3073</b>	<b>3.3086</b>	<b>2.0464</b>	<b>8.6000e-003</b>	<b>15.9745</b>	<b>0.0525</b>	<b>16.0270</b>	<b>1.6616</b>	<b>0.0502</b>	<b>1.7117</b>		<b>898.0937</b>	<b>898.0937</b>	<b>0.0412</b>		<b>899.1239</b>

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 3.2 Grading - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	2.9360	34.3962	13.3333	0.0281		1.5994	1.5994		1.4714	1.4714	0.0000	2,873.0036	2,873.0036	0.8803		2,895.0107
<b>Total</b>	<b>2.9360</b>	<b>34.3962</b>	<b>13.3333</b>	<b>0.0281</b>	<b>7.0826</b>	<b>1.5994</b>	<b>8.6820</b>	<b>3.4247</b>	<b>1.4714</b>	<b>4.8962</b>	<b>0.0000</b>	<b>2,873.0036</b>	<b>2,873.0036</b>	<b>0.8803</b>		<b>2,895.0107</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1717	3.1874	0.9991	6.6600e-003	5.3821	0.0510	5.4332	0.5718	0.0488	0.6206		705.6169	705.6169	0.0322		706.4229
Worker	0.1356	0.1213	1.0473	1.9400e-003	10.5924	1.4200e-003	10.5938	1.0898	1.3200e-003	1.0911		192.4768	192.4768	8.9700e-003		192.7010
<b>Total</b>	<b>0.3073</b>	<b>3.3086</b>	<b>2.0464</b>	<b>8.6000e-003</b>	<b>15.9745</b>	<b>0.0525</b>	<b>16.0270</b>	<b>1.6616</b>	<b>0.0502</b>	<b>1.7117</b>		<b>898.0937</b>	<b>898.0937</b>	<b>0.0412</b>		<b>899.1239</b>



# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 3.3 Building Construction - 2017

#### 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	4.0925	28.9661	23.3532	0.0324		2.0862	2.0862		1.9740	1.9740		3,107.5655	3,107.5655	0.7557		3,126.4577
<b>Total</b>	<b>4.0925</b>	<b>28.9661</b>	<b>23.3532</b>	<b>0.0324</b>		<b>2.0862</b>	<b>2.0862</b>		<b>1.9740</b>	<b>1.9740</b>		<b>3,107.5655</b>	<b>3,107.5655</b>	<b>0.7557</b>		<b>3,126.4577</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0384	1.0486	0.2403	2.4100e-003	0.3165	0.0120	0.3284	0.0414	0.0114	0.0529		258.1460	258.1460	0.0117		258.4387
Vendor	0.0858	1.5937	0.4996	3.3300e-003	2.6911	0.0255	2.7166	0.2859	0.0244	0.3103		352.8085	352.8085	0.0161		353.2115
Worker	0.4746	0.4244	3.6654	6.7900e-003	37.0733	4.9800e-003	37.0783	3.8142	4.6100e-003	3.8188		673.6687	673.6687	0.0314		674.4533
<b>Total</b>	<b>0.5988</b>	<b>3.0667</b>	<b>4.4052</b>	<b>0.0125</b>	<b>40.0808</b>	<b>0.0425</b>	<b>40.1233</b>	<b>4.1415</b>	<b>0.0405</b>	<b>4.1820</b>		<b>1,284.6232</b>	<b>1,284.6232</b>	<b>0.0592</b>		<b>1,286.1035</b>

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 3.3 Building Construction - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0925	28.9661	23.3532	0.0324		2.0862	2.0862		1.9740	1.9740	0.0000	3,107.5655	3,107.5655	0.7557		3,126.4577
<b>Total</b>	<b>4.0925</b>	<b>28.9661</b>	<b>23.3532</b>	<b>0.0324</b>		<b>2.0862</b>	<b>2.0862</b>		<b>1.9740</b>	<b>1.9740</b>	<b>0.0000</b>	<b>3,107.5655</b>	<b>3,107.5655</b>	<b>0.7557</b>		<b>3,126.4577</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0384	1.0486	0.2403	2.4100e-003	0.3165	0.0120	0.3284	0.0414	0.0114	0.0529		258.1460	258.1460	0.0117		258.4387
Vendor	0.0858	1.5937	0.4996	3.3300e-003	2.6911	0.0255	2.7166	0.2859	0.0244	0.3103		352.8085	352.8085	0.0161		353.2115
Worker	0.4746	0.4244	3.6654	6.7900e-003	37.0733	4.9800e-003	37.0783	3.8142	4.6100e-003	3.8188		673.6687	673.6687	0.0314		674.4533
<b>Total</b>	<b>0.5988</b>	<b>3.0667</b>	<b>4.4052</b>	<b>0.0125</b>	<b>40.0808</b>	<b>0.0425</b>	<b>40.1233</b>	<b>4.1415</b>	<b>0.0405</b>	<b>4.1820</b>		<b>1,284.6232</b>	<b>1,284.6232</b>	<b>0.0592</b>		<b>1,286.1035</b>

### 4.0 Operational Detail - Mobile

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 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	0.0862	0.0423	0.4454	1.1000e-004	0.0000	3.0000e-004	3.0000e-004	0.0000	2.8000e-004	2.8000e-004		9.7202	9.7202	2.4000e-003		9.7803
Unmitigated	0.0862	0.0423	0.4454	1.1000e-004	0.0000	3.0000e-004	3.0000e-004	0.0000	2.8000e-004	2.8000e-004		9.7202	9.7202	2.4000e-003		9.7803

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	49.20	0.00	0.00		
Total	49.20	0.00	0.00		

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	13.00	5.00	5.00	100.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

**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

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 5.2 Energy by Land Use - Natural Gas

#### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4000e-004	2.0000e-005	2.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3800e-003	5.3800e-003	1.0000e-005		5.7500e-003
Unmitigated	2.4000e-004	2.0000e-005	2.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3800e-003	5.3800e-003	1.0000e-005		5.7500e-003

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3800e-003	5.3800e-003	1.0000e-005		5.7500e-003
<b>Total</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>	<b>1.0000e-005</b>		<b>5.7500e-003</b>

# Paso Robles Airport Solar Project

## Paso Robles Solar - San Luis Obispo County, Winter

### 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3800e-003	5.3800e-003	1.0000e-005		5.7500e-003
<b>Total</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>	<b>1.0000e-005</b>		<b>5.7500e-003</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

### 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

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## Paso Robles Solar - San Luis Obispo County, Winter

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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