

Appendix B

Construction and Operation Emissions Estimate Details

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Revisions to Applicant Estimates

Revisions to the applicant's emissions estimate provided in CalEEMod and in separate spreadsheets were made to address issues found with the applicant's estimates as follows:

CalEEMod Input Revisions/Additions:

- 1) Equipment was added to address missing water truck use and missing articulated trucks listed in the Applicant's construction equipment list.
- 2) Horsepower for certain equipment items were revised based on equipment types listed by the applicant in their equipment list or to fix issues with inappropriate CalEEMod default values that do not reflect the size of equipment needed for this large construction project.
- 3) Certain equipment that are too small for this type of project, such as the listed 16 horsepower dumper/tenders and 8 horsepower plate compactors, were removed and replaced if necessary with appropriately sized equipment that better matched the applicant's construction equipment list.
- 4) Watering mitigation was revised to reflect 2 times daily to match the mitigation measure requirements.
- 5) Off-road equipment was added to include expected regular road maintenance required for the project site's unpaved roads (dozer, grader, roller) that will be needed after rain events and periodically from normal use; as well as, slope stabilization work.
- 6) CalEEMod output files (annual, summer, winter) were edited to remove unnecessary information and improve the presentation and pagination.

Applicant Spreadsheet Revisions:

- 1) All applicant spreadsheets were revised to add appropriate level of input assumptions and reference detail, correct typos, and provide improved presentation quality.
- 2) Applicant helicopter spreadsheet revisions as follows:
 - a. Revised to assume KMAX helicopter rather than Huey helicopter (which is a very old helicopter not used for this type of work).
 - b. Revised the Lift/Take-Off (LTO) calculations to be based on number of LTOs to match emissions factor basis, with assumption of 8 LTOs per day.
- 3) Concrete batching spreadsheet was corrected to calculate based on cubic yards of concrete throughput per the emissions factor basis and to add the mixer loading emissions factor.

Additional Calculations:

- 1) Onsite Fugitive Dust. Calculations to address gaps in the CalEEMod model calculations were prepared, including the following:
 - a. For Construction.
 - i. On-site unpaved road dust calculations for onsite only vehicle trips. These trips include scraper travel, concrete truck trips, and soil movement dump truck/articulate truck trips.

b. For Operation

- i. On-site unpaved road dust calculations for expected normal operation trip requirements including daily trips for security/inspection and annual WTG maintenance events.
 - ii. Equipment activity based fugitive dust, dozer and grader, for unpaved road maintenance and slope stability maintenance activity which is expected to occur regularly after each large storm and otherwise as necessary.
- 2) Onsite Mobile Emissions. Onsite mobile vehicle use for normal inspection/security and annual WTG maintenance events are calculated.
- 3) GHG Indirect Emissions.
- a. Construction water use.
 - b. Operation indirect GHG emissions reduction due to renewable energy generation.

The specific assumptions and references for these additional calculations are listed with those calculations that are presented on the following emissions calculation sheets, presented after the emissions summary sheet and prior to the CalEEMod output files.

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Emissions Summary

Project Construction Unmitigated Emissions Totals - Tons

	ROG	NOx	CO	SO2	PM10	PM2.5
CalEEMod Totals	8.83	22.81	14.16	0.04	35.49	4.33
Helicopter	0.76	3.99	0.91	0.24	0.11	0.11
Onsite Unpaved Dust	--	--	--	--	50.16	5.40
Concrete Batching	--	--	--	--	0.10	0.10
Total	9.58	26.80	15.07	0.28	85.87	9.94

Project Construction Mitigated Emissions Totals - Tons

	ROG	NOx	CO	SO2	PM10	PM2.5
CalEEMod Totals	7.73	16.33	17.62	0.04	12.19	1.81
Helicopter	0.76	3.99	0.91	0.24	0.11	0.11
Onsite Unpaved Dust	--	--	--	--	9.71	1.05
Concrete Batching	--	--	--	--	0.10	0.10
Total	8.48	20.33	18.53	0.28	22.11	3.07

Project Operation Emissions Totals

	ROG	NOx	CO	SO2	PM10	PM2.5
CalEEMod Totals lbs/day	1.27	12.57	6.85	0.01	0.65	0.55
Onsite Mobile Sources	0.00	0.00	0.01	0.00	0.00	0.00
Onsite Fugitive Dust	--	--	--	--	45.42	6.97
Project Total lbs/day	1.27	12.57	6.86	0.01	46.07	7.51
CalEEMod Totals tons/year	0.06	0.30	0.21	0.00	0.03	0.02
Onsite Mobile Sources	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Fugitive Dust	--	--	--	--	3.32	0.40
Project Total tons/year	0.06	0.30	0.22	0.00	3.35	0.42

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Emissions Summary

Project GHG Emissions

	CO ₂ e MT
CalEEMod Construction	3,482
Helicopter	1,019
Water Use	724
Construction Total	5,226
Operation	
Off-Road Equipment	27.1
Area Sources	0.0
Mobile Sources	13.9
Energy Use	6.7
Solid Waste	2.6
Water Use	3.7
CalEEMod Subtotal	54.0
Onsite Mobile Sources	2.6
SF ₆ Leakage	3.6
Project Emissions Total	60.2
Indirect Reduction	-20203
Operation Annual Total	-20142

Strauss Wind Energy Project

Construction Emissions

Onsite Unpaved Road Dust

Onsite Vehicle Travel Assumptions

1) Several on-site only trips are not included in the CalEEMod estimates including:

- a) Scraper travel which is assumed to be 40 miles per each day of use for onsite roads and 30 miles per day total for T-line construction.
- b) Concrete trucks with 1,200 round trips assumed to average 2.56 miles on unpaved roads to access WTG sites from batch plant.
- c) Dump truck/off-road articulated truck travel which is assumed 40 miles/day with 396 truck days.

Emissions Factor from USEPA AP-42 Section 13.2.1

$$E = (k)[(s/12)^{0.9}][[(W/3)^{0.45}][(365-P)/365]$$

k = constant = 1.5 lb/VMT for PM10 and 0.15 lb/VMT for PM2.5

s = Silt Content (assumed to be 8.5%, AP-42 for construction site scraper routes)

W = avg. vehicle weight = calculated below

P = Days of precipitation (40 assumed per AP-42 Figure 13.2.2-1)

Average Vehicle Weight Calculation

Assumptions:

Concrete Trucks = 27.5 tons average loaded/unloaded

Scraper = 54.3 tons (CAT 621 average loaded/unloaded weights)

Off-road Articulated Trucks = 45 tons (CAT 735 average loaded/unloaded weight)

Scrapers	Articulated Dump Trucks	Concrete Trucks	Total Unpaved VMT	Average Weight (Tons)
13,140	15,840	3,072	32,052	39.7

Uncontrolled Emission Factors and Emissions

Total Emission Factors (lb/VMT)		Emissions (Tons)	
PM10	PM2.5	PM10	PM2.5
3.13	0.34	50.16	5.40

Controlled Emissions Assumptions

- 1) 55% control with watering two times daily per SCAQMD.
- 2) 57% control for speed reduction to 15 mph per SCAQMD.
- 3) Total combined control of ~~82.45%~~ **80.65%**

Controlled Emissions (Tons)

	PM10	PM2.5	Control
Total Project	9.71	1.05	80.65%

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Operation Emissions

Onsite Unpaved Road Dust

Onsite Vehicle Travel Assumptions

- 1) On-site only trips are not included in the CalEEMod fugitive dust emissions estimates including:
 - a) Routine daily inspections.
 - b) Routine maintenance events, not including major upset work, specifically annual WTG maintenance events (2 days/year for each WTG) and road and slope maintenance that is assumed to be required regularly, up to 40 days per year.
 - c) Worst case daily assumption is one pickup (F150 class) traveling the entire WTG unpaved road route (15 miles) and two larger service vehicles (F350 class) going to a single WTG for routing maintenance (2 trips times 5 miles round trip).
 - d) Worst case annual assumption is one pickup (F150 class) traveling the entire WTG unpaved road route daily (15 miles) and two larger service vehicles (F350 class) going to a each WTG annually for routing maintenance two days each (120 trips times average of 2.5 average miles round trip).
 - e) The other wheeled maintenance equipment (grader/roller/dozer) have separate or insignificant emissions (roller).
 - f) Same emissions factor calculation (AP 42 Section 13.2.2) used with recalculated operation vehicle weights, and silt content of 4 percent for maintained gravel roads.
 - g) Daily assumes no mitigation from rain events, annual emissions factor uses 40 days per year of rain to determine annual average emissions factor.

Average Vehicle Weight Calculation

Assumptions:

F150 Pickup = 3.5 tons Loaded

F350 Pickup = 7.0 tons Loaded

	F150	F350	Total Unpaved VMT	Average Weight (Tons)
Daily	15	10	25	4.9
Annual	5,475	300	5,775	3.7

Uncontrolled Emission Factors and Emissions

	Total Emission Factors (lb/VMT)			Emissions	
	PM10	PM2.5		PM10	PM2.5
Daily	1.37	0.14	Daily lbs	34.29	3.43
Annual	1.07	0.12	Annual Tons	3.10	0.33

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Equipment Use Fugitive Dust

Emission Types

A) Dozing

B) Grading

A) Dozing (AP-42 Section 11.9 for overburden)

$$E = k \times (s)^{1.5} / (M)^{1.4} \text{ For PM10 and } k \times 5.7 \times (s)^{1.2} / (M)^{1.3} \text{ for PM2.5}$$

$$E = \text{lb/hr}$$

k = Scaling Constant (0.75 for PM10 and 0.105 for PM2.5)

s = Silt Content (assumed to be 8.5%)

M = Moisture Content = ~~10.47.9%~~ (based on AP-42 Section 11.9, **Table 11.9-3** average dozer **overburden** soil moisture **content** value)

Emission Factor, lb/hr

PM10	PM2.5
1.02923	0.53144

Maximum Daily Dozer Use

	Hrs/day
Dozer Use	6

Dozer Emissions (Lbs/day)

PM10	PM2.5
6.18	3.19

Total Dozer Use

	Hrs
Dozer Use	240

Dozer Emissions (Tons)

PM10	PM2.5
0.12	0.06

B) Grading (AP-42 Section 11.9)

$$E = k \times 0.051 \times (S)^{2.0} \text{ for PM10 and } k \times 0.040 \times (S)^{2.5} \text{ for PM2.5}$$

$$E = \text{lb/VMT}$$

k = Scaling Constant (0.60 for PM10 and 0.031 for PM2.5)

S = Mean Vehicle Speed assumed to be 3 mph

Assumes VMT = 3 x hours in use

Emission Factor, lb/VMT

PM10	PM2.5
0.27540	0.01933

Maximum Daily Grader Use

	Hrs/day	VMT/day
Daily	6	18

Grading Emissions (Lbs/day)

PM10	PM2.5
4.96	0.35

Total Grader VMT

Hrs	VMT/year
240	720

Grading Emissions (Tons/year)

PM10	PM2.5
0.10	0.01

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Onsite Fugitive Dust Emissions Totals

		Uncontrolled	
Daily Emissions lbs		PM10	PM2.5
Unpaved Road Dust		34.29	3.43
Dozing		6.18	3.19
Grading		4.96	0.35
	Total	45.42	6.97
Annual Emissions tons		PM10	PM2.5
Unpaved Road Dust		3.10	0.33
Dozing		0.12	0.06
Grading		0.10	0.01
	Total	3.32	0.40

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Construction Emissions

Helicopter Emissions

Assumptions:

- 1) Certain materials and equipment for the T-line construction are brought in by a typical medium lift helicopter (KMAX).
- 2) Helicopter use hourly operation estimate (8.7 hours/day) and operation period (16 weeks, 7 days per week) is from the project applicant.
- 3) Number of daily Landing/Take-offs (LTO) assumption is 8 LTO's per day.
- 4) Line stringing will be performed by drone (zero emissions) or other method not requiring small helicopter use.
- 5) Emissions factors are from the Swiss Federal Office of Civil Aviation (FOCA), Guidance on Determination of Helicopter Emissions (2013).
- 6) SO_x emissions based on typical Jet A sulfur content of 350 ppm and fuel use provided in FOCA reference.
- 7) PM emissions factors are assumed to be PM=PM_{2.5}=PM₁₀
- 8) GHG Emissions based on fuel use estimated using FOCA reference and GHG emissions factors from The Climate Registry (2018).
- 9) Jet A density assumed to be 6.7 lbs/gallon (3.05 kg/gallon).
- 10) Methane and Nitrous Oxide Global Warming Potential GWP conversions based on IPCC AR5.

Criteria Pollutant Emissions Factors

	Units	ROG	NO _x	CO	SO _x	PM
LTO	lbs/LTO	0.46	0.86	0.58	0.07	0.02
Operation	lbs/hour	1.12	7.41	1.34	0.44	0.20

Criteria Pollutant Emissions - Tons

	LTOs/Hours	ROG	NO _x	CO	SO _x	PM
LTOs	896	0.21	0.39	0.26	0.03	0.01
Operation	974.4	0.55	3.61	0.66	0.21	0.10
Totals		0.76	3.99	0.91	0.24	0.11

GHG Emissions

	CO ₂	CH ₄	N ₂ O	CO ₂ e
Jet A EFs	9.75	0.58	0.31	9.84839
	kg CO ₂ /gal	g/gallon	g/gallon	kg CO ₂ e/gal

	kg/LTO	kg/hr Op	Use/Gals
Fuel Use	43.4	284	103,481

Emissions	CO ₂ e MT
	1,019

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Construction Emissions

Concrete Batching Emissions

Assumptions

- 1) Emissions factors are from USEPA AP-42 Section 11.12, assuming plant mix batching.
- 2) A total of 12,000 CY of concrete will be batched onsite.
- 3) The process stage by stage emissions factors, lbs per CY of concrete batched, are as follows:

	PM10	
Aggregate delivery to ground storage	0.0031	
Sand delivery to ground storage	0.0007	
Aggregate transfer to conveyor	0.0031	
Sand transfer to conveyor	0.0007	
Aggregate transfer to elevated storage	0.0031	
Sand transfer to elevated storage	0.0007	
Cement delivery to silo	0.0001	
Cement supplement delivery to silo	0.0002	
Weigh hopper loading	0.0038	
Mixer loading	0.00155	
Total EF	0.01705	lbs/CY batched

Emissions

	Throughput	PM10	
Total CY	12,000	204.6	lbs total

Note: PM2.5 emissions are conservatively assumed to be the same as PM10 emissions

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Operation Emissions

Onsite Mobile Equipment Tailpipe Emissions

Assumptions

- 1) Onsite mobile vehicle use is as provided in the fugitive dust calculation assumptions.
- 2) Emissions factors are from EMFAC2014 for the vehicles assumed using 2020 aggregate factors for diesel fueled trucks.

Emissions Factors

	ROG	NOx	CO	SO2	PM10	PM2.5
F350	0.0004	0.0056	0.0019	1.37E-05	2.92E-04	1.57E-04
F150	3.22E-05	0.0001	0.0004	9.16E-06	1.17E-04	5.66E-05

Criteria Pollutant Emissions

Daily Emissions lbs

	Miles/day	ROG	NOx	CO	SO2	PM10	PM2.5
F350	10	0.004	0.056	0.019	0.000	0.003	0.002
F150	15	0.000	0.002	0.006	0.000	0.002	0.001
	Total	0.004	0.058	0.025	0.000	0.005	0.002

Annual Emissions tons

	Miles/year	ROG	NOx	CO	SO2	PM10	PM2.5
F350	300	5.99E-05	8.37E-04	2.80E-04	2.05E-06	4.38E-05	2.36E-05
F150	5,475	8.82E-05	3.94E-04	1.15E-03	2.51E-05	3.20E-04	1.55E-04
	Total	1.48E-04	1.23E-03	1.43E-03	2.71E-05	3.64E-04	1.79E-04

GHG Emissions

Assumptions

- 1) CO2 emissions factors from EMFAC2014.
- 2) CH4 and N2O emissions factors from TCR 2018, and conversion to CO2e is per TAR5 GWPs.

Emissions Factors

	CO2	CH4	N2O	CO2e
F350	1.431	0.001	0.002	1.432
F150	0.959	0.001	0.002	0.960
	lb/mile	g/mile	g/mile	lb/mile

Annual Emissions Metric Tons

	Miles/year	CO2e
F350	300	0.19
F150	5,475	2.38
	Total	2.58

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Operation Emissions

Annual GHG Emissions from SF₆ leakage

Assumptions

- 1) There is one piece of equipment at the switchyard with a total storage of 68 lbs of SF₆.
- 2) Leakage rate is 0.5 percent per year.
- 3) Global Warming Potential (GWP) for SF₆ is based on IPCC AR5.

GHG Emissions

SF ₆ Storage	Leakage Rate	GWP	Emissions
68	0.50%	23,500	3.62
lbs			CO ₂ e MT/Yr

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GHG Indirect Emissions

Construction

Assumptions:

- 1) CalEEMod does not include assessment of water use during construction.
- 2) Water use during construction will be substantial, so indirect GHG emissions from water use are calculated.
- 3) Water use estimate is based on applicant provided water truck trips with assumption of 4,000 gallons used per trip.
- 4) Estimate of CO₂e based on CalEEMod assumption of 0.041 Metric Tons of CO₂e per 1,000 gallons.

Construction Water Use Estimate

Water truck trips	8832
Water truck fill-ups (trips/2)	4416
Water per fill up (gallons)	4,000
Water use (gallons)	17,664,000

Water Use GHG Emissions	724.2	CO ₂ e MT
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Operation

Assumptions

- 1) CalEEMod does not estimate the indirect reduction in GHG emissions from renewable energy generation.
- 2) The project will generate a large amount of renewable energy during a 30-year project lifetime.
- 3) The indirect GHG emissions reductions can be calculated in many ways, but a conservatively low approach assuming a lifetime average GHG emissions reduction rate is used.
- 4) The annual generation is 303,8000 MWh per the applicant.
- 5) PG&E has a system-wide 0.133 MTCO₂e/MWh emission rate in 2016. It is assumed that the future RPS requirements will mean the project life average is one-half of that rate (0.0665 MTCO₂e/MWh).

GHG Emissions Reduction

30-year Project Life Reduction	606,081
Peak Annual Reduction	40,405
Annualized Average Reduction	20,203

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South Central Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	5.50	1000sqft	2,988.00	5,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.9	Precipitation Freq (Days)	37
Climate Zone	4			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage 2,988

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment -

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

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Off-road Equipment - Based on applicant provided information.

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Off-road Equipment - Based on applicant provided information.

Trips and VMT - Table 2.4-3 Estimated Construction Truck Trips

On-road Fugitive Dust - mod

Grading - Assumes 4 passes of 190 disturbed acres.

Architectural Coating - p

Vehicle Trips - 7 full time staff, 5.5 (1,000 Sqft) *1.28 (trip rate) = 7

Road Dust - 0.5 miles on unpaved roads. (6.4 miles *93% paved = 0.5 miles unpaved). Vehicle speed limited to 15 miles per hour.

Energy Use - Accounting for use of onsite well

Water And Wastewater - 250 gal/day *365 days/yr = 91250 gal/yr

Construction Off-road Equipment Mitigation - Offroad Equipment Engines Mitigation Level is Tier 3, Moisture content for roads mitigated to 12 percent for watering and mitigated speed reduction to 15 mph.

Energy Mitigation -

Operational Off-Road Equipment - 1 Forklift for 2 hours per day, 260 days a year at O&M buiding, and 1 grader, 1 D6 dozer, and 1 roller for road and other slope maintenance 40 days per year.

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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					
2019	8.8292	22.8064	14.1552	0.0378	34.6490	0.8419	35.4909	3.5487	0.7770	4.3257	0.0000	3,461.5986	3,461.5986	0.8324	0.0000	3,482.4080
Maximum	8.8292	22.8064	14.1552	0.0378	34.6490	0.8419	35.4909	3.5487	0.7770	4.3257	0.0000	3,461.5986	3,461.5986	0.8324	0.0000	3,482.4080

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					
2019	7.7277	16.3312	17.6210	0.0378	11.6169	0.5752	12.1921	1.2392	0.5741	1.8133	0.0000	3,461.5957	3,461.5957	0.8324	0.0000	3,482.4051
Maximum	7.7277	16.3312	17.6210	0.0378	11.6169	0.5752	12.1921	1.2392	0.5741	1.8133	0.0000	3,461.5957	3,461.5957	0.8324	0.0000	3,482.4051

	ROG	NOx	CO	SO2	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	12.48	28.39	-24.48	0.00	66.47	31.68	65.65	65.08	26.11	58.08	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational
Operational Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0279	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.0000e-004
Energy	1.0000e-004	9.4000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	6.6665	6.6665	2.7000e-004	7.0000e-005	6.6947
Mobile	3.6100e-003	0.0169	0.0503	1.5000e-004	0.0135	1.7000e-004	0.0137	3.6100e-003	1.6000e-004	3.7700e-003	0.0000	13.8372	13.8372	5.9000e-004	0.0000	13.8519
Offroad	0.0258	0.2851	0.1638	3.1000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	26.9206	26.9206	8.7100e-003	0.0000	27.1382
Waste						0.0000	0.0000		0.0000	0.0000	1.0495	0.0000	1.0495	0.0620	0.0000	2.6000
Water						0.0000	0.0000		0.0000	0.0000	0.4035	2.0021	2.4056	0.0415	1.0000e-003	3.7412
Total	0.0574	0.3030	0.2149	4.7000e-004	0.0135	0.0143	0.0278	3.6100e-003	0.0132	0.0168	1.4530	49.4264	50.8794	0.1131	1.0700e-003	54.0261

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Access Roads	Demolition	1/2/2019	1/31/2019	5	22	
2	Site Roads, Laydown, Batch Plant	Demolition	2/1/2019	8/5/2019	5	132	
3	Foundations	Site Preparation	3/1/2019	5/31/2019	5	66	
4	Collection System	Site Preparation	4/1/2019	6/28/2019	5	65	
5	WTG Deliveries	Grading	5/1/2019	7/31/2019	5	66	
6	WTG Erection	Grading	6/3/2019	9/30/2019	5	86	
7	Substation	Trenching	6/3/2019	9/30/2019	5	86	
8	T-Line	Trenching	6/3/2019	9/30/2019	5	86	
9	O&M Building 1	Building Construction	9/2/2019	10/31/2019	5	44	
10	O&M Building 2	Paving	9/2/2019	10/31/2019	5	44	
11	O&M Building 3	Architectural Coating	9/2/2019	10/31/2019	5	44	

Non-Residential Indoor: 8,250; Non-Residential Outdoor: 2,750; Striped Parking Area: 1,165,824 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Roads	Crawler Tractors	1	8.00	166	0.43
Access Roads	Excavators	2	8.00	158	0.38
Access Roads	Graders	1	8.00	238	0.41
Access Roads	Rollers	1	8.00	80	0.38
Access Roads	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Site Roads, Laydown, Batch Plant	Crawler Tractors	1	8.00	166	0.43
Site Roads, Laydown, Batch Plant	Crawler Tractors	2	8.00	405	0.43
Site Roads, Laydown, Batch Plant	Crushing/Proc. Equipment	1	8.00	85	0.78
Site Roads, Laydown, Batch Plant	Excavators	2	8.00	158	0.38
Site Roads, Laydown, Batch Plant	Graders	1	8.00	187	0.41
Site Roads, Laydown, Batch Plant	Off-Highway Trucks	9	8.00	402	0.38
Site Roads, Laydown, Batch Plant	Rollers	2	8.00	80	0.38
Site Roads, Laydown, Batch Plant	Rubber Tired Loaders	1	8.00	203	0.36
Site Roads, Laydown, Batch Plant	Scrapers	2	8.00	407	0.48
Site Roads, Laydown, Batch Plant	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations	Excavators	1	8.00	314	0.38
Foundations	Rollers	1	8.00	80	0.38
Foundations	Rough Terrain Forklifts	1	8.00	142	0.40
Foundations	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Collection System	Graders	1	8.00	238	0.41
Collection System	Other Construction Equipment	1	8.00	46	0.42
Collection System	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Collection System	Trenchers	1	8.00	78	0.50
WTG Deliveries	Cranes	2	8.00	275	0.29
WTG Deliveries	Cranes	1	8.00	332	0.29
WTG Deliveries	Off-Highway Trucks	1	8.00	402	0.38
WTG Deliveries	Rough Terrain Forklifts	1	8.00	142	0.40
WTG Erection	Cranes	2	8.00	332	0.29
WTG Erection	Cranes	2	8.00	275	0.29
WTG Erection	Rough Terrain Forklifts	1	8.00	142	0.40
Substation	Cranes	1	6.00	275	0.29
Substation	Crawler Tractors	1	6.00	166	0.43

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Substation	Excavators	1	6.00	158	0.38
Substation	Rough Terrain Forklifts	1	6.00	142	0.40
Substation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
T-Line	Crawler Tractors	3	6.00	166	0.43
T-Line	Graders	3	6.00	238	0.41
T-Line	Off-Highway Tractors	2	6.00	124	0.44
T-Line	Off-Highway Trucks	2	4.00	402	0.38
T-Line	Off-Highway Trucks	2	6.00	402	0.38
T-Line	Other General Industrial Equipment	2	8.00	88	0.34
T-Line	Rubber Tired Loaders	2	6.00	203	0.36
T-Line	Scrapers	4	6.00	407	0.48
T-Line	Skid Steer Loaders	1	6.00	65	0.37
T-Line	Tractors/Loaders/Backhoes	2	6.00	97	0.37
O&M Building 2	Crawler Tractors	1	8.00	166	0.43
O&M Building 2	Off-Highway Trucks	2	8.00	402	0.38
O&M Building 2	Rubber Tired Loaders	1	8.00	203	0.36
O&M Building 3	Air Compressors	1	6.00	78	0.48

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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
Access Roads	6	26.00	4.00	1,344.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Roads, Laydown, Batch Plant	22	100.00	48.00	2,080.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Foundations	4	50.00	18.00	302.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Collection System	4	14.00	18.00	177.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
WTG Deliveries	5	100.00	18.00	556.00	16.80	6.60	305.00	LD_Mix	HDT_Mix	HHDT
WTG Erection	5	100.00	18.00	180.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Substation	5	20.00	18.00	600.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
T-Line	23	100.00	18.00	960.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
O&M Building 1	0	6.00	18.00	960.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
O&M Building 2	4	100.00	18.00	200.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
O&M Building 3	1	2.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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3.2 Access Roads - 2019

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	0.0248	0.2760	0.1906	3.4000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	30.2643	30.2643	9.5800e-003	0.0000	30.5036
Total	0.0248	0.2760	0.1906	3.4000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	30.2643	30.2643	9.5800e-003	0.0000	30.5036

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	6.1600e-003	0.2167	0.0507	5.2000e-004	0.3668	1.1800e-003	0.3680	0.0386	1.1300e-003	0.0397	0.0000	51.6644	51.6644	4.3500e-003	0.0000	51.7730
Vendor	2.0000e-004	5.3100e-003	1.6200e-003	1.0000e-005	0.0271	4.0000e-005	0.0272	2.7600e-003	4.0000e-005	2.8000e-003	0.0000	1.0347	1.0347	8.0000e-005	0.0000	1.0367
Worker	1.6600e-003	1.4000e-003	0.0129	3.0000e-005	0.3211	2.0000e-005	0.3212	0.0326	2.0000e-005	0.0326	0.0000	3.0721	3.0721	1.0000e-004	0.0000	3.0746
Total	8.0200e-003	0.2234	0.0652	5.6000e-004	0.7151	1.2400e-003	0.7163	0.0740	1.1900e-003	0.0752	0.0000	55.7712	55.7712	4.5300e-003	0.0000	55.8843

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3.2 Access Roads - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2700e-003	0.1653	0.2342	3.4000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003	0.0000	30.2642	30.2642	9.5800e-003	0.0000	30.5036
Total	8.2700e-003	0.1653	0.2342	3.4000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003	0.0000	30.2642	30.2642	9.5800e-003	0.0000	30.5036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.1600e-003	0.2167	0.0507	5.2000e-004	0.1265	1.1800e-003	0.1277	0.0146	1.1300e-003	0.0157	0.0000	51.6644	51.6644	4.3500e-003	0.0000	51.7730
Vendor	2.0000e-004	5.3100e-003	1.6200e-003	1.0000e-005	8.9600e-003	4.0000e-005	9.0100e-003	9.4000e-004	4.0000e-005	9.8000e-004	0.0000	1.0347	1.0347	8.0000e-005	0.0000	1.0367
Worker	1.6600e-003	1.4000e-003	0.0129	3.0000e-005	0.1064	2.0000e-005	0.1064	0.0111	2.0000e-005	0.0112	0.0000	3.0721	3.0721	1.0000e-004	0.0000	3.0746
Total	8.0200e-003	0.2234	0.0652	5.6000e-004	0.2419	1.2400e-003	0.2431	0.0266	1.1900e-003	0.0278	0.0000	55.7712	55.7712	4.5300e-003	0.0000	55.8843

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3.3 Site Roads, Laydown, Batch Plant - 2019

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	0.9280	10.0336	6.0899	0.0150		0.4063	0.4063		0.3753	0.3753	0.0000	1,345.8069	1,345.8069	0.4164	0.0000	1,356.2177
Total	0.9280	10.0336	6.0899	0.0150		0.4063	0.4063		0.3753	0.3753	0.0000	1,345.8069	1,345.8069	0.4164	0.0000	1,356.2177

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5400e-003	0.3354	0.0784	8.1000e-004	0.5677	1.8300e-003	0.5695	0.0597	1.7500e-003	0.0615	0.0000	79.9568	79.9568	6.7300e-003	0.0000	80.1249
Vendor	0.0145	0.3822	0.1165	7.7000e-004	1.9537	3.0600e-003	1.9568	0.1984	2.9300e-003	0.2013	0.0000	74.4983	74.4983	5.7100e-003	0.0000	74.6411
Worker	0.0382	0.0324	0.2985	7.8000e-004	7.4108	5.6000e-004	7.4113	0.7527	5.1000e-004	0.7532	0.0000	70.8951	70.8951	2.2800e-003	0.0000	70.9520
Total	0.0623	0.7500	0.4934	2.3600e-003	9.9321	5.4500e-003	9.9376	1.0108	5.1900e-003	1.0160	0.0000	225.3501	225.3501	0.0147	0.0000	225.7179

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3.3 Site Roads, Laydown, Batch Plant - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3657	7.1499	8.3774	0.0150		0.2933	0.2933		0.2933	0.2933	0.0000	1,345.8053	1,345.8053	0.4164	0.0000	1,356.2161
Total	0.3657	7.1499	8.3774	0.0150		0.2933	0.2933		0.2933	0.2933	0.0000	1,345.8053	1,345.8053	0.4164	0.0000	1,356.2161

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5400e-003	0.3354	0.0784	8.1000e-004	0.1958	1.8300e-003	0.1976	0.0225	1.7500e-003	0.0243	0.0000	79.9568	79.9568	6.7300e-003	0.0000	80.1249
Vendor	0.0145	0.3822	0.1165	7.7000e-004	0.6454	3.0600e-003	0.6485	0.0676	2.9300e-003	0.0705	0.0000	74.4983	74.4983	5.7100e-003	0.0000	74.6411
Worker	0.0382	0.0324	0.2985	7.8000e-004	2.4552	5.6000e-004	2.4557	0.2571	5.1000e-004	0.2576	0.0000	70.8951	70.8951	2.2800e-003	0.0000	70.9520
Total	0.0623	0.7500	0.4934	2.3600e-003	3.2964	5.4500e-003	3.3018	0.3472	5.1900e-003	0.3524	0.0000	225.3501	225.3501	0.0147	0.0000	225.7179

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3.4 Foundations - 2019

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					0.5631	0.0000	0.5631	0.0676	0.0000	0.0676	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0314	0.3427	0.3102	6.9000e-004		0.0165	0.0165		0.0152	0.0152	0.0000	61.7584	61.7584	0.0195	0.0000	62.2469
Total	0.0314	0.3427	0.3102	6.9000e-004	0.5631	0.0165	0.5796	0.0676	0.0152	0.0828	0.0000	61.7584	61.7584	0.0195	0.0000	62.2469

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	1.3800e-003	0.0487	0.0114	1.2000e-004	0.0824	2.7000e-004	0.0827	8.6700e-003	2.5000e-004	8.9200e-003	0.0000	11.6091	11.6091	9.8000e-004	0.0000	11.6335
Vendor	2.7100e-003	0.0717	0.0219	1.4000e-004	0.3663	5.7000e-004	0.3669	0.0372	5.5000e-004	0.0378	0.0000	13.9684	13.9684	1.0700e-003	0.0000	13.9952
Worker	9.5600e-003	8.0900e-003	0.0746	2.0000e-004	1.8527	1.4000e-004	1.8528	0.1882	1.3000e-004	0.1883	0.0000	17.7238	17.7238	5.7000e-004	0.0000	17.7380
Total	0.0137	0.1285	0.1079	4.6000e-004	2.3014	9.8000e-004	2.3024	0.2340	9.3000e-004	0.2350	0.0000	43.3013	43.3013	2.6200e-003	0.0000	43.3667

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3.4 Foundations - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2534	0.0000	0.2534	0.0304	0.0000	0.0304	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.3435	0.4456	6.9000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	61.7583	61.7583	0.0195	0.0000	62.2468
Total	0.0169	0.3435	0.4456	6.9000e-004	0.2534	0.0172	0.2706	0.0304	0.0172	0.0476	0.0000	61.7583	61.7583	0.0195	0.0000	62.2468

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3800e-003	0.0487	0.0114	1.2000e-004	0.0284	2.7000e-004	0.0287	3.2700e-003	2.5000e-004	3.5200e-003	0.0000	11.6091	11.6091	9.8000e-004	0.0000	11.6335
Vendor	2.7100e-003	0.0717	0.0219	1.4000e-004	0.1210	5.7000e-004	0.1216	0.0127	5.5000e-004	0.0132	0.0000	13.9684	13.9684	1.0700e-003	0.0000	13.9952
Worker	9.5600e-003	8.0900e-003	0.0746	2.0000e-004	0.6138	1.4000e-004	0.6139	0.0643	1.3000e-004	0.0644	0.0000	17.7238	17.7238	5.7000e-004	0.0000	17.7380
Total	0.0137	0.1285	0.1079	4.6000e-004	0.7632	9.8000e-004	0.7642	0.0802	9.3000e-004	0.0811	0.0000	43.3013	43.3013	2.6200e-003	0.0000	43.3667

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3.5 Collection System - 2019

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					0.0172	0.0000	0.0172	1.8600e-003	0.0000	1.8600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.5331	0.2980	5.5000e-004		0.0283	0.0283		0.0260	0.0260	0.0000	49.0101	49.0101	0.0155	0.0000	49.3977
Total	0.0546	0.5331	0.2980	5.5000e-004	0.0172	0.0283	0.0455	1.8600e-003	0.0260	0.0279	0.0000	49.0101	49.0101	0.0155	0.0000	49.3977

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	8.1000e-004	0.0285	6.6700e-003	7.0000e-005	0.0483	1.6000e-004	0.0485	5.0800e-003	1.5000e-004	5.2300e-003	0.0000	6.8040	6.8040	5.7000e-004	0.0000	6.8183
Vendor	2.6700e-003	0.0706	0.0215	1.4000e-004	0.3608	5.6000e-004	0.3613	0.0366	5.4000e-004	0.0372	0.0000	13.7568	13.7568	1.0500e-003	0.0000	13.7832
Worker	2.6400e-003	2.2300e-003	0.0206	5.0000e-005	0.5109	4.0000e-005	0.5109	0.0519	4.0000e-005	0.0519	0.0000	4.8875	4.8875	1.6000e-004	0.0000	4.8914
Total	6.1200e-003	0.1013	0.0488	2.6000e-004	0.9200	7.6000e-004	0.9207	0.0936	7.3000e-004	0.0943	0.0000	25.4483	25.4483	1.7800e-003	0.0000	25.4929

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3.5 Collection System - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.7500e-003	0.0000	7.7500e-003	8.4000e-004	0.0000	8.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.2987	0.3497	5.5000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	49.0100	49.0100	0.0155	0.0000	49.3977
Total	0.0151	0.2987	0.3497	5.5000e-004	7.7500e-003	0.0163	0.0240	8.4000e-004	0.0163	0.0171	0.0000	49.0100	49.0100	0.0155	0.0000	49.3977

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.1000e-004	0.0285	6.6700e-003	7.0000e-005	0.0167	1.6000e-004	0.0168	1.9200e-003	1.5000e-004	2.0700e-003	0.0000	6.8040	6.8040	5.7000e-004	0.0000	6.8183
Vendor	2.6700e-003	0.0706	0.0215	1.4000e-004	0.1192	5.6000e-004	0.1198	0.0125	5.4000e-004	0.0130	0.0000	13.7568	13.7568	1.0500e-003	0.0000	13.7832
Worker	2.6400e-003	2.2300e-003	0.0206	5.0000e-005	0.1693	4.0000e-005	0.1693	0.0177	4.0000e-005	0.0178	0.0000	4.8875	4.8875	1.6000e-004	0.0000	4.8914
Total	6.1200e-003	0.1013	0.0488	2.6000e-004	0.3051	7.6000e-004	0.3059	0.0321	7.3000e-004	0.0329	0.0000	25.4483	25.4483	1.7800e-003	0.0000	25.4929

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3.6 WTG Deliveries - 2019

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	0.0803	0.9449	0.6678	1.3200e-003		0.0369	0.0369		0.0339	0.0339	0.0000	118.8579	118.8579	0.0376	0.0000	119.7980
Total	0.0803	0.9449	0.6678	1.3200e-003	0.0000	0.0369	0.0369	0.0000	0.0339	0.0339	0.0000	118.8579	118.8579	0.0376	0.0000	119.7980

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	0.0303	0.9960	0.2492	2.9500e-003	0.0723	6.8800e-003	0.0792	0.0198	6.5800e-003	0.0264	0.0000	292.8123	292.8123	0.0211	0.0000	293.3386
Vendor	2.7100e-003	0.0717	0.0219	1.4000e-004	0.3663	5.7000e-004	0.3669	0.0372	5.5000e-004	0.0378	0.0000	13.9684	13.9684	1.0700e-003	0.0000	13.9952
Worker	0.0191	0.0162	0.1492	3.9000e-004	3.7054	2.8000e-004	3.7057	0.3763	2.6000e-004	0.3766	0.0000	35.4475	35.4475	1.1400e-003	0.0000	35.4760
Total	0.0521	1.0839	0.4203	3.4800e-003	4.1440	7.7300e-003	4.1518	0.4334	7.3900e-003	0.4407	0.0000	342.2282	342.2282	0.0233	0.0000	342.8098

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.6 WTG Deliveries - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0325	0.6283	0.7405	1.3200e-003		0.0246	0.0246		0.0246	0.0246	0.0000	118.8577	118.8577	0.0376	0.0000	119.7979
Total	0.0325	0.6283	0.7405	1.3200e-003	0.0000	0.0246	0.0246	0.0000	0.0246	0.0246	0.0000	118.8577	118.8577	0.0376	0.0000	119.7979

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0303	0.9960	0.2492	2.9500e-003	0.0723	6.8800e-003	0.0792	0.0198	6.5800e-003	0.0264	0.0000	292.8123	292.8123	0.0211	0.0000	293.3386
Vendor	2.7100e-003	0.0717	0.0219	1.4000e-004	0.1210	5.7000e-004	0.1216	0.0127	5.5000e-004	0.0132	0.0000	13.9684	13.9684	1.0700e-003	0.0000	13.9952
Worker	0.0191	0.0162	0.1492	3.9000e-004	1.2276	2.8000e-004	1.2279	0.1286	2.6000e-004	0.1288	0.0000	35.4475	35.4475	1.1400e-003	0.0000	35.4760
Total	0.0521	1.0839	0.4203	3.4800e-003	1.4209	7.7300e-003	1.4287	0.1611	7.3900e-003	0.1684	0.0000	342.2282	342.2282	0.0233	0.0000	342.8098

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.7 WTG Erection - 2019

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	0.0996	1.2358	0.9151	1.5100e-003		0.0495	0.0495		0.0455	0.0455	0.0000	135.8658	135.8658	0.0430	0.0000	136.9405
Total	0.0996	1.2358	0.9151	1.5100e-003	0.0000	0.0495	0.0495	0.0000	0.0455	0.0455	0.0000	135.8658	135.8658	0.0430	0.0000	136.9405

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	8.3000e-004	0.0290	6.7900e-003	7.0000e-005	0.0491	1.6000e-004	0.0493	5.1700e-003	1.5000e-004	5.3200e-003	0.0000	6.9193	6.9193	5.8000e-004	0.0000	6.9339
Vendor	3.5400e-003	0.0934	0.0285	1.9000e-004	0.4773	7.5000e-004	0.4781	0.0485	7.1000e-004	0.0492	0.0000	18.2013	18.2013	1.4000e-003	0.0000	18.2362
Worker	0.0249	0.0211	0.1945	5.1000e-004	4.8282	3.6000e-004	4.8286	0.4904	3.3000e-004	0.4907	0.0000	46.1892	46.1892	1.4800e-003	0.0000	46.2263
Total	0.0293	0.1435	0.2297	7.7000e-004	5.3547	1.2700e-003	5.3560	0.5440	1.1900e-003	0.5452	0.0000	71.3098	71.3098	3.4600e-003	0.0000	71.3963

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3.7 WTG Erection - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0372	0.7194	0.8536	1.5100e-003		0.0283	0.0283		0.0283	0.0283	0.0000	135.8657	135.8657	0.0430	0.0000	136.9403
Total	0.0372	0.7194	0.8536	1.5100e-003	0.0000	0.0283	0.0283	0.0000	0.0283	0.0283	0.0000	135.8657	135.8657	0.0430	0.0000	136.9403

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3000e-004	0.0290	6.7900e-003	7.0000e-005	0.0169	1.6000e-004	0.0171	1.9500e-003	1.5000e-004	2.1000e-003	0.0000	6.9193	6.9193	5.8000e-004	0.0000	6.9339
Vendor	3.5400e-003	0.0934	0.0285	1.9000e-004	0.1577	7.5000e-004	0.1584	0.0165	7.1000e-004	0.0172	0.0000	18.2013	18.2013	1.4000e-003	0.0000	18.2362
Worker	0.0249	0.0211	0.1945	5.1000e-004	1.5996	3.6000e-004	1.6000	0.1675	3.3000e-004	0.1678	0.0000	46.1892	46.1892	1.4800e-003	0.0000	46.2263
Total	0.0293	0.1435	0.2297	7.7000e-004	1.7742	1.2700e-003	1.7755	0.1860	1.1900e-003	0.1872	0.0000	71.3098	71.3098	3.4600e-003	0.0000	71.3963

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.8 Substation - 2019

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	0.0576	0.6418	0.5431	8.4000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	75.7028	75.7028	0.0240	0.0000	76.3016
Total	0.0576	0.6418	0.5431	8.4000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	75.7028	75.7028	0.0240	0.0000	76.3016

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	2.7500e-003	0.0968	0.0226	2.3000e-004	0.1637	5.3000e-004	0.1643	0.0172	5.0000e-004	0.0177	0.0000	23.0645	23.0645	1.9400e-003	0.0000	23.1130
Vendor	3.5400e-003	0.0934	0.0285	1.9000e-004	0.4773	7.5000e-004	0.4781	0.0485	7.1000e-004	0.0492	0.0000	18.2013	18.2013	1.4000e-003	0.0000	18.2362
Worker	4.9800e-003	4.2200e-003	0.0389	1.0000e-004	0.9657	7.0000e-005	0.9657	0.0981	7.0000e-005	0.0981	0.0000	9.2378	9.2378	3.0000e-004	0.0000	9.2453
Total	0.0113	0.1944	0.0900	5.2000e-004	1.6067	1.3500e-003	1.6081	0.1638	1.2800e-003	0.1651	0.0000	50.5036	50.5036	3.6400e-003	0.0000	50.5944

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.8 Substation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0207	0.4096	0.5896	8.4000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	75.7027	75.7027	0.0240	0.0000	76.3015
Total	0.0207	0.4096	0.5896	8.4000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	75.7027	75.7027	0.0240	0.0000	76.3015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7500e-003	0.0968	0.0226	2.3000e-004	0.0565	5.3000e-004	0.0570	6.5000e-003	5.0000e-004	7.0000e-003	0.0000	23.0645	23.0645	1.9400e-003	0.0000	23.1130
Vendor	3.5400e-003	0.0934	0.0285	1.9000e-004	0.1577	7.5000e-004	0.1584	0.0165	7.1000e-004	0.0172	0.0000	18.2013	18.2013	1.4000e-003	0.0000	18.2362
Worker	4.9800e-003	4.2200e-003	0.0389	1.0000e-004	0.3199	7.0000e-005	0.3200	0.0335	7.0000e-005	0.0336	0.0000	9.2378	9.2378	3.0000e-004	0.0000	9.2453
Total	0.0113	0.1944	0.0900	5.2000e-004	0.5341	1.3500e-003	0.5354	0.0565	1.2800e-003	0.0578	0.0000	50.5036	50.5036	3.6400e-003	0.0000	50.5944

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3.9 T-Line - 2019

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	0.4360	4.9876	2.8956	6.1900e-003		0.2106	0.2106		0.1937	0.1937	0.0000	556.0509	556.0509	0.1759	0.0000	560.4491
Total	0.4360	4.9876	2.8956	6.1900e-003		0.2106	0.2106		0.1937	0.1937	0.0000	556.0509	556.0509	0.1759	0.0000	560.4491

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	4.4000e-003	0.1548	0.0362	3.7000e-004	0.2620	8.4000e-004	0.2628	0.0276	8.1000e-004	0.0284	0.0000	36.9031	36.9031	3.1000e-003	0.0000	36.9807
Vendor	3.5400e-003	0.0934	0.0285	1.9000e-004	0.4773	7.5000e-004	0.4781	0.0485	7.1000e-004	0.0492	0.0000	18.2013	18.2013	1.4000e-003	0.0000	18.2362
Worker	0.0249	0.0211	0.1945	5.1000e-004	4.8282	3.6000e-004	4.8286	0.4904	3.3000e-004	0.4907	0.0000	46.1892	46.1892	1.4800e-003	0.0000	46.2263
Total	0.0329	0.2693	0.2591	1.0700e-003	5.5676	1.9500e-003	5.5695	0.5664	1.8500e-003	0.5683	0.0000	101.2936	101.2936	5.9800e-003	0.0000	101.4432

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3.9 T-Line - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1521	2.9826	3.6077	6.1900e-003		0.1263	0.1263		0.1263	0.1263	0.0000	556.0502	556.0502	0.1759	0.0000	560.4484
Total	0.1521	2.9826	3.6077	6.1900e-003		0.1263	0.1263		0.1263	0.1263	0.0000	556.0502	556.0502	0.1759	0.0000	560.4484

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-003	0.1548	0.0362	3.7000e-004	0.0904	8.4000e-004	0.0912	0.0104	8.1000e-004	0.0112	0.0000	36.9031	36.9031	3.1000e-003	0.0000	36.9807
Vendor	3.5400e-003	0.0934	0.0285	1.9000e-004	0.1577	7.5000e-004	0.1584	0.0165	7.1000e-004	0.0172	0.0000	18.2013	18.2013	1.4000e-003	0.0000	18.2362
Worker	0.0249	0.0211	0.1945	5.1000e-004	1.5996	3.6000e-004	1.6000	0.1675	3.3000e-004	0.1678	0.0000	46.1892	46.1892	1.4800e-003	0.0000	46.2263
Total	0.0329	0.2693	0.2591	1.0700e-003	1.8476	1.9500e-003	1.8496	0.1944	1.8500e-003	0.1963	0.0000	101.2936	101.2936	5.9800e-003	0.0000	101.4432

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3.10 O&M Building 1 - 2019

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	4.4000e-003	0.1548	0.0362	3.7000e-004	0.2620	8.4000e-004	0.2628	0.0276	8.1000e-004	0.0284	0.0000	36.9031	36.9031	3.1000e-003	0.0000	36.9807
Vendor	1.8100e-003	0.0478	0.0146	1.0000e-004	0.2442	3.8000e-004	0.2446	0.0248	3.7000e-004	0.0252	0.0000	9.3123	9.3123	7.1000e-004	0.0000	9.3301
Worker	7.6000e-004	6.5000e-004	5.9700e-003	2.0000e-005	0.1482	1.0000e-005	0.1482	0.0151	1.0000e-005	0.0151	0.0000	1.4179	1.4179	5.0000e-005	0.0000	1.4190
Total	6.9700e-003	0.2032	0.0567	4.9000e-004	0.6544	1.2300e-003	0.6557	0.0674	1.1900e-003	0.0686	0.0000	47.6333	47.6333	3.8600e-003	0.0000	47.7299

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3.10 O&M Building 1 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	4.4000e-003	0.1548	0.0362	3.7000e-004	0.0904	8.4000e-004	0.0912	0.0104	8.1000e-004	0.0112	0.0000	36.9031	36.9031	3.1000e-003	0.0000	36.9807
Vendor	1.8100e-003	0.0478	0.0146	1.0000e-004	0.0807	3.8000e-004	0.0811	8.4500e-003	3.7000e-004	8.8100e-003	0.0000	9.3123	9.3123	7.1000e-004	0.0000	9.3301
Worker	7.6000e-004	6.5000e-004	5.9700e-003	2.0000e-005	0.0491	1.0000e-005	0.0491	5.1400e-003	1.0000e-005	5.1500e-003	0.0000	1.4179	1.4179	5.0000e-005	0.0000	1.4190
Total	6.9700e-003	0.2032	0.0567	4.9000e-004	0.2202	1.2300e-003	0.2214	0.0240	1.1900e-003	0.0252	0.0000	47.6333	47.6333	3.8600e-003	0.0000	47.7299

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.11 O&M Building 2 - 2019

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	0.0543	0.5716	0.3064	8.5000e-004		0.0234	0.0234		0.0215	0.0215	0.0000	76.6509	76.6509	0.0243	0.0000	77.2572
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0543	0.5716	0.3064	8.5000e-004		0.0234	0.0234		0.0215	0.0215	0.0000	76.6509	76.6509	0.0243	0.0000	77.2572

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0323	7.5400e-003	8.0000e-005	0.0546	1.8000e-004	0.0548	5.7400e-003	1.7000e-004	5.9100e-003	0.0000	7.6882	7.6882	6.5000e-004	0.0000	7.7043
Vendor	1.8100e-003	0.0478	0.0146	1.0000e-004	0.2442	3.8000e-004	0.2446	0.0248	3.7000e-004	0.0252	0.0000	9.3123	9.3123	7.1000e-004	0.0000	9.3301
Worker	0.0128	0.0108	0.0995	2.6000e-004	2.4703	1.9000e-004	2.4705	0.2509	1.7000e-004	0.2511	0.0000	23.6317	23.6317	7.6000e-004	0.0000	23.6507
Total	0.0155	0.0908	0.1216	4.4000e-004	2.7691	7.5000e-004	2.7698	0.2814	7.1000e-004	0.2821	0.0000	40.6321	40.6321	2.1200e-003	0.0000	40.6851

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.11 O&M Building 2 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0210	0.4051	0.4844	8.5000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	76.6508	76.6508	0.0243	0.0000	77.2571
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0210	0.4051	0.4844	8.5000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	76.6508	76.6508	0.0243	0.0000	77.2571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0323	7.5400e-003	8.0000e-005	0.0188	1.8000e-004	0.0190	2.1700e-003	1.7000e-004	2.3300e-003	0.0000	7.6882	7.6882	6.5000e-004	0.0000	7.7043
Vendor	1.8100e-003	0.0478	0.0146	1.0000e-004	0.0807	3.8000e-004	0.0811	8.4500e-003	3.7000e-004	8.8100e-003	0.0000	9.3123	9.3123	7.1000e-004	0.0000	9.3301
Worker	0.0128	0.0108	0.0995	2.6000e-004	0.8184	1.9000e-004	0.8186	0.0857	1.7000e-004	0.0859	0.0000	23.6317	23.6317	7.6000e-004	0.0000	23.6507
Total	0.0155	0.0908	0.1216	4.4000e-004	0.9179	7.5000e-004	0.9186	0.0963	7.1000e-004	0.0970	0.0000	40.6321	40.6321	2.1200e-003	0.0000	40.6851

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.12 O&M Building 3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.8182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8600e-003	0.0404	0.0405	7.0000e-005		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6290
Total	6.8241	0.0404	0.0405	7.0000e-005		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6290

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	4.0000e-004	0.0106	3.2400e-003	2.0000e-005	0.0543	8.0000e-005	0.0544	5.5100e-003	8.0000e-005	5.5900e-003	0.0000	2.0694	2.0694	1.6000e-004	0.0000	2.0734
Worker	2.5000e-004	2.2000e-004	1.9900e-003	1.0000e-005	0.0494	0.0000	0.0494	5.0200e-003	0.0000	5.0200e-003	0.0000	0.4726	0.4726	2.0000e-005	0.0000	0.4730
Total	6.5000e-004	0.0108	5.2300e-003	3.0000e-005	0.1037	8.0000e-005	0.1038	0.0105	8.0000e-005	0.0106	0.0000	2.5420	2.5420	1.8000e-004	0.0000	2.5464

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

3.12 O&M Building 3 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.8182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6290
Total	6.8195	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	4.7000e-004	0.0000	5.6290

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	4.0000e-004	0.0106	3.2400e-003	2.0000e-005	0.0179	8.0000e-005	0.0180	1.8800e-003	8.0000e-005	1.9600e-003	0.0000	2.0694	2.0694	1.6000e-004	0.0000	2.0734
Worker	2.5000e-004	2.2000e-004	1.9900e-003	1.0000e-005	0.0164	0.0000	0.0164	1.7100e-003	0.0000	1.7200e-003	0.0000	0.4726	0.4726	2.0000e-005	0.0000	0.4730
Total	6.5000e-004	0.0108	5.2300e-003	3.0000e-005	0.0343	8.0000e-005	0.0344	3.5900e-003	8.0000e-005	3.6800e-003	0.0000	2.5420	2.5420	1.8000e-004	0.0000	2.5464

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

4.0 Operational Detail - Mobile

4.1 Mobile Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	3.6100e-003	0.0169	0.0503	1.5000e-004	0.0135	1.7000e-004	0.0137	3.6100e-003	1.6000e-004	3.7700e-003	0.0000	13.8372	13.8372	5.9000e-004	0.0000	13.8519

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	9.24	9.24	9.24	35,698	35,698
Total	9.24	9.24	9.24	35,698	35,698

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	14.70	6.60	6.60	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	0.566358	0.037171	0.195804	0.123346	0.024195	0.006655	0.017175	0.018049	0.001869	0.001464	0.005229	0.001126	0.001556

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

5.0 Energy Detail

Historical Energy Use: N

Energy by Land Use - NaturalGas

	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					
Unrefrigerated Warehouse-No Rail	19085	1.0000e-004	9.4000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0185	1.0185	2.0000e-005	2.0000e-005	1.0245
Total		1.0000e-004	9.4000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0185	1.0185	2.0000e-005	2.0000e-005	1.0245

Energy by Land Use - Electricity

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	19415	5.6481	2.6000e-004	5.0000e-005	5.6702
Total		5.6481	2.6000e-004	5.0000e-005	5.6702

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

6.0 Area Detail

Area by SubCategory

	ROG	NOx	CO	SO2	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	6.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.0000e-004
Total	0.0279	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.0000e-004

7.0 Water Detail

Water by Land Use

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	1.27188 / 0	2.4056	0.0415	1.0000e-003	3.7412
Total		2.4056	0.0415	1.0000e-003	3.7412

8.0 Waste Detail

Waste by Land Use

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	5.17	1.0495	0.0620	0.0000	2.6000
Total		1.0495	0.0620	0.0000	2.6000

Strauss Wind Energy Project - South Central Coast Air Basin, Annual

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	2.00	260	89	0.20	Diesel
Graders	1	6.00	40	238	0.41	Diesel
Crawler Tractors	1	6.00	40	166	0.43	Diesel
Rollers	1	6.00	40	80	0.38	Diesel

Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Crawler Tractors	8.9700e-003	0.0918	0.0629	9.0000e-005		5.1300e-003	5.1300e-003		4.7200e-003	4.7200e-003	0.0000	8.0465	8.0465	2.6000e-003	0.0000	8.1116
Forklifts	4.6800e-003	0.0422	0.0384	5.0000e-005		3.1400e-003	3.1400e-003		2.8900e-003	2.8900e-003	0.0000	4.3645	4.3645	1.4100e-003	0.0000	4.3998
Graders	9.0600e-003	0.1204	0.0345	1.3000e-004		3.8500e-003	3.8500e-003		3.5400e-003	3.5400e-003	0.0000	11.0959	11.0959	3.5900e-003	0.0000	11.1857
Rollers	3.0800e-003	0.0308	0.0280	4.0000e-005		1.9700e-003	1.9700e-003		1.8100e-003	1.8100e-003	0.0000	3.4136	3.4136	1.1000e-003	0.0000	3.4412
Total	0.0258	0.2851	0.1638	3.1000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	26.9206	26.9206	8.7000e-003	0.0000	27.1382

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

Summer Worst-Case Daily Emissions

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					
2019	329.1307	416.2911	258.4417	0.6899	662.6648	15.3699	678.0347	67.6684	14.1778	81.8462	0.0000	69,817.0056	69,817.0056	16.3748	0.0000	70,226.3752
Maximum	329.1307	416.2911	258.4417	0.6899	662.6648	15.3699	678.0347	67.6684	14.1778	81.8462	0.0000	69,817.0056	69,817.0056	16.3748	0.0000	70,226.3752

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					
2019	318.4963	291.7562	313.1037	0.6899	220.9234	10.1939	231.1172	23.4919	10.1734	33.6652	0.0000	69,817.0055	69,817.0055	16.3748	0.0000	70,226.3751
Maximum	318.4963	291.7562	313.1037	0.6899	220.9234	10.1939	231.1172	23.4919	10.1734	33.6652	0.0000	69,817.0055	69,817.0055	16.3748	0.0000	70,226.3751

	ROG	NOx	CO	SO2	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	3.23	29.92	-21.15	0.00	66.66	33.68	65.91	65.28	28.24	58.87	0.00	0.00	0.00	0.00	0.00	0.00

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

2.2 Overall Operational
Operational Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1527	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
Energy	5.6000e-004	5.1300e-003	4.3100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1515	6.1515	1.2000e-004	1.1000e-004	6.1881
Mobile	0.0206	0.0887	0.2786	8.6000e-004	0.0758	9.3000e-004	0.0767	0.0203	8.7000e-004	0.0211		86.3719	86.3719	3.5900e-003		86.4616
Offroad	1.0912	12.4719	6.5684	0.0132		0.5711	0.5711		0.5254	0.5254		1,280.1987	1,280.1987	0.4140		1,290.5498
Total	1.2650	12.5657	6.8518	0.0141	0.0758	0.5724	0.6482	0.0203	0.5267	0.5470		1,372.7233	1,372.7233	0.4178	1.1000e-004	1,383.2007

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

(CalEEMod input data/assumptions are the same as shown in the annual output)

3.2 Access Roads - 2019

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	2.2510	25.0915	17.3294	0.0306		1.2080	1.2080		1.1113	1.1113		3,032.7843	3,032.7843	0.9595		3,056.7728
Total	2.2510	25.0915	17.3294	0.0306		1.2080	1.2080		1.1113	1.1113		3,032.7843	3,032.7843	0.9595		3,056.7728

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	0.5533	19.2563	4.4798	0.0477	37.0099	0.1062	37.1161	3.8758	0.1016	3.9774		5,208.6648	5,208.6648	0.4297		5,219.4062
Vendor	0.0179	0.4759	0.1392	9.8000e-004	2.7429	3.8200e-003	2.7467	0.2781	3.6600e-003	0.2818		104.7532	104.7532	7.7400e-003		104.9467
Worker	0.1457	0.1133	1.2156	3.2100e-003	32.4591	2.2000e-003	32.4613	3.2918	2.0200e-003	3.2939		319.2626	319.2626	0.0102		319.5166
Total	0.7169	19.8454	5.8345	0.0519	72.2119	0.1122	72.3242	7.4458	0.1073	7.5531		5,632.6806	5,632.6806	0.4476		5,643.8695

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.2 Access Roads - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7520	15.0304	21.2946	0.0306		0.7541	0.7541		0.7541	0.7541	0.0000	3,032.7843	3,032.7843	0.9595		3,056.7728
Total	0.7520	15.0304	21.2946	0.0306		0.7541	0.7541		0.7541	0.7541	0.0000	3,032.7843	3,032.7843	0.9595		3,056.7728

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5533	19.2563	4.4798	0.0477	12.7030	0.1062	12.8092	1.4451	0.1016	1.5467		5,208.6648	5,208.6648	0.4297		5,219.4062
Vendor	0.0179	0.4759	0.1392	9.8000e-004	0.9047	3.8200e-003	0.9085	0.0943	3.6600e-003	0.0980		104.7532	104.7532	7.7400e-003		104.9467
Worker	0.1457	0.1133	1.2156	3.2100e-003	10.7348	2.2000e-003	10.7370	1.1194	2.0200e-003	1.1214		319.2626	319.2626	0.0102		319.5166
Total	0.7169	19.8454	5.8345	0.0519	24.3425	0.1122	24.4548	2.6588	0.1073	2.7661		5,632.6806	5,632.6806	0.4476		5,643.8695

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.3 Site Roads, Laydown, Batch Plant - 2019

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	14.0604	152.0244	92.2711	0.2274		6.1555	6.1555		5.6856	5.6856		22,477.24 48	22,477.24 48	6.9551		22,651.12 24
Total	14.0604	152.0244	92.2711	0.2274		6.1555	6.1555		5.6856	5.6856		22,477.24 48	22,477.24 48	6.9551		22,651.12 24

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	0.1427	4.9669	1.1555	0.0123	9.5462	0.0274	9.5736	0.9997	0.0262	1.0259		1,343.504 8	1,343.504 8	0.1108		1,346.275 4
Vendor	0.2145	5.7104	1.6700	0.0117	32.9147	0.0459	32.9605	3.3375	0.0439	3.3814		1,257.038 7	1,257.038 7	0.0929		1,259.360 0
Worker	0.5604	0.4356	4.6752	0.0123	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.9177	11.1129	7.5007	0.0363	167.3037	0.0817	167.3854	16.9981	0.0779	17.0760		3,828.476 6	3,828.476 6	0.2428		3,834.545 5

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.3 Site Roads, Laydown, Batch Plant - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.5410	108.3326	126.9307	0.2274		4.4434	4.4434		4.4434	4.4434	0.0000	22,477.24 48	22,477.24 48	6.9551		22,651.12 23
Total	5.5410	108.3326	126.9307	0.2274		4.4434	4.4434		4.4434	4.4434	0.0000	22,477.24 48	22,477.24 48	6.9551		22,651.12 23

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1427	4.9669	1.1555	0.0123	3.2766	0.0274	3.3040	0.3728	0.0262	0.3990		1,343.504 8	1,343.504 8	0.1108		1,346.275 4
Vendor	0.2145	5.7104	1.6700	0.0117	10.8562	0.0459	10.9020	1.1316	0.0439	1.1755		1,257.038 7	1,257.038 7	0.0929		1,259.360 0
Worker	0.5604	0.4356	4.6752	0.0123	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.9177	11.1129	7.5007	0.0363	55.4206	0.0817	55.5023	5.8098	0.0779	5.8877		3,828.476 6	3,828.476 6	0.2428		3,834.545 5

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.4 Foundations - 2019

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					17.0634	0.0000	17.0634	2.0480	0.0000	2.0480			0.0000			0.0000
Off-Road	0.9500	10.3851	9.3992	0.0209		0.5005	0.5005		0.4604	0.4604		2,062.9375	2,062.9375	0.6527		2,079.2548
Total	0.9500	10.3851	9.3992	0.0209	17.0634	0.5005	17.5639	2.0480	0.4604	2.5085		2,062.9375	2,062.9375	0.6527		2,079.2548

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	0.0415	1.4423	0.3355	3.5700e-003	2.7721	7.9600e-003	2.7800	0.2903	7.6100e-003	0.2979		390.1331	390.1331	0.0322		390.9377
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.2802	0.2178	2.3376	6.1700e-003	62.4214	4.2200e-003	62.4256	6.3305	3.8900e-003	6.3344		613.9665	613.9665	0.0195		614.4551
Total	0.4021	3.8015	3.2994	0.0141	77.5365	0.0294	77.5658	7.8723	0.0280	7.9003		1,475.4892	1,475.4892	0.0865		1,477.6527

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.4 Foundations - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6786	0.0000	7.6786	0.9216	0.0000	0.9216			0.0000			0.0000
Off-Road	0.5131	10.4099	13.5040	0.0209		0.5219	0.5219		0.5219	0.5219	0.0000	2,062.9375	2,062.9375	0.6527		2,079.2548
Total	0.5131	10.4099	13.5040	0.0209	7.6786	0.5219	8.2004	0.9216	0.5219	1.4435	0.0000	2,062.9375	2,062.9375	0.6527		2,079.2548

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0415	1.4423	0.3355	3.5700e-003	0.9515	7.9600e-003	0.9594	0.1082	7.6100e-003	0.1159		390.1331	390.1331	0.0322		390.9377
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.2802	0.2178	2.3376	6.1700e-003	20.6439	4.2200e-003	20.6481	2.1527	3.8900e-003	2.1566		613.9665	613.9665	0.0195		614.4551
Total	0.4021	3.8015	3.2994	0.0141	25.6665	0.0294	25.6958	2.6853	0.0280	2.7133		1,475.4892	1,475.4892	0.0865		1,477.6527

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.5 Collection System - 2019

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.6791	16.4018	9.1693	0.0168		0.8700	0.8700		0.8004	0.8004		1,662.288 2	1,662.288 2	0.5259		1,675.436 4
Total	1.6791	16.4018	9.1693	0.0168	0.5303	0.8700	1.4002	0.0573	0.8004	0.8576		1,662.288 2	1,662.288 2	0.5259		1,675.436 4

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	0.0247	0.8583	0.1997	2.1200e-003	1.6497	4.7300e-003	1.6544	0.1728	4.5300e-003	0.1773		232.1719	232.1719	0.0192		232.6507
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.0785	0.0610	0.6545	1.7300e-003	17.4780	1.1800e-003	17.4792	1.7725	1.0900e-003	1.7736		171.9106	171.9106	5.4700e-003		172.0474
Total	0.1836	3.0607	1.4804	8.2400e-003	31.4707	0.0231	31.4938	3.1969	0.0221	3.2189		875.4721	875.4721	0.0594		876.9581

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.5 Collection System - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.4638	9.1895	10.7588	0.0168		0.5005	0.5005		0.5005	0.5005	0.0000	1,662.288 2	1,662.288 2	0.5259		1,675.436 4
Total	0.4638	9.1895	10.7588	0.0168	0.2386	0.5005	0.7391	0.0258	0.5005	0.5262	0.0000	1,662.288 2	1,662.288 2	0.5259		1,675.436 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0247	0.8583	0.1997	2.1200e-003	0.5662	4.7300e-003	0.5710	0.0644	4.5300e-003	0.0689		232.1719	232.1719	0.0192		232.6507
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.0785	0.0610	0.6545	1.7300e-003	5.7803	1.1800e-003	5.7815	0.6028	1.0900e-003	0.6039		171.9106	171.9106	5.4700e-003		172.0474
Total	0.1836	3.0607	1.4804	8.2400e-003	10.4176	0.0231	10.4407	1.0915	0.0221	1.1136		875.4721	875.4721	0.0594		876.9581

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.6 WTG Deliveries - 2019

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	2.4342	28.6333	20.2361	0.0401		1.1175	1.1175		1.0281	1.0281		3,970.2536	3,970.2536	1.2562		4,001.6572
Total	2.4342	28.6333	20.2361	0.0401	0.0000	1.1175	1.1175	0.0000	1.0281	1.0281		3,970.2536	3,970.2536	1.2562		4,001.6572

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	0.9164	29.0667	7.5823	0.0895	2.2342	0.2083	2.4425	0.6114	0.1993	0.8107		9,785.2434	9,785.2434	0.7029		9,802.8146
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,227.9331	1,227.9331	0.0391		1,228.9101
Total	1.5573	31.6437	12.8837	0.1062	139.4200	0.2340	139.6539	14.5239	0.2236	14.7474		11,484.5659	11,484.5659	0.7768		11,503.9847

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.6 WTG Deliveries - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9849	19.0407	22.4407	0.0401		0.7463	0.7463		0.7463	0.7463	0.0000	3,970.2536	3,970.2536	1.2562		4,001.6572
Total	0.9849	19.0407	22.4407	0.0401	0.0000	0.7463	0.7463	0.0000	0.7463	0.7463	0.0000	3,970.2536	3,970.2536	1.2562		4,001.6572

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9164	29.0667	7.5823	0.0895	2.2342	0.2083	2.4425	0.6114	0.1993	0.8107		9,785.2434	9,785.2434	0.7029		9,802.8146
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,227.9331	1,227.9331	0.0391		1,228.9101
Total	1.5573	31.6437	12.8837	0.1062	47.5931	0.2340	47.8271	5.3412	0.2236	5.5647		11,484.5659	11,484.5659	0.7768		11,503.9847

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.7 WTG Erection - 2019

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	2.3171	28.7396	21.2809	0.0352		1.1499	1.1499		1.0579	1.0579		3,482.940 3	3,482.940 3	1.1020		3,510.489 4
Total	2.3171	28.7396	21.2809	0.0352	0.0000	1.1499	1.1499	0.0000	1.0579	1.0579		3,482.940 3	3,482.940 3	1.1020		3,510.489 4

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	0.0190	0.6597	0.1535	1.6300e-003	1.2680	3.6400e-003	1.2716	0.1328	3.4800e-003	0.1363		178.4530	178.4530	0.0147		178.8210
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.6598	3.2368	5.4549	0.0184	138.4538	0.0293	138.4830	14.0453	0.0277	14.0730		1,877.775 6	1,877.775 6	0.0886		1,879.991 1

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.7 WTG Erection - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8653	16.7297	19.8507	0.0352		0.6586	0.6586		0.6586	0.6586	0.0000	3,482.940 3	3,482.940 3	1.1020		3,510.489 4
Total	0.8653	16.7297	19.8507	0.0352	0.0000	0.6586	0.6586	0.0000	0.6586	0.6586	0.0000	3,482.940 3	3,482.940 3	1.1020		3,510.489 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0190	0.6597	0.1535	1.6300e-003	0.4352	3.6400e-003	0.4389	0.0495	3.4800e-003	0.0530		178.4530	178.4530	0.0147		178.8210
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.6598	3.2368	5.4549	0.0184	45.7941	0.0293	45.8234	4.7793	0.0277	4.8070		1,877.775 6	1,877.775 6	0.0886		1,879.991 1

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.8 Substation - 2019

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	1.3387	14.9244	12.6312	0.0196		0.7361	0.7361		0.6772	0.6772		1,940.6516	1,940.6516	0.6140		1,956.0016
Total	1.3387	14.9244	12.6312	0.0196		0.7361	0.7361		0.6772	0.6772		1,940.6516	1,940.6516	0.6140		1,956.0016

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	0.0632	2.1991	0.5116	5.4400e-003	4.2266	0.0121	4.2388	0.4426	0.0116	0.4542		594.8434	594.8434	0.0491		596.0701
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.1121	0.0871	0.9351	2.4700e-003	24.9686	1.6900e-003	24.9702	2.5322	1.5600e-003	2.5337		245.5866	245.5866	7.8200e-003		245.7820
Total	0.2557	4.4276	2.0729	0.0123	41.5382	0.0310	41.5692	4.2264	0.0296	4.2560		1,311.8195	1,311.8195	0.0917		1,314.1121

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.8 Substation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4823	9.5244	13.7113	0.0196		0.4628	0.4628		0.4628	0.4628	0.0000	1,940.6516	1,940.6516	0.6140		1,956.0016
Total	0.4823	9.5244	13.7113	0.0196		0.4628	0.4628		0.4628	0.4628	0.0000	1,940.6516	1,940.6516	0.6140		1,956.0016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0632	2.1991	0.5116	5.4400e-003	1.4507	0.0121	1.4629	0.1650	0.0116	0.1766		594.8434	594.8434	0.0491		596.0701
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.1121	0.0871	0.9351	2.4700e-003	8.2576	1.6900e-003	8.2593	0.8611	1.5600e-003	0.8626		245.5866	245.5866	7.8200e-003		245.7820
Total	0.2557	4.4276	2.0729	0.0123	13.7794	0.0310	13.8104	1.4505	0.0296	1.4801		1,311.8195	1,311.8195	0.0917		1,314.1121

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.9 T-Line - 2019

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	10.1396	115.9904	67.3406	0.1440		4.8967	4.8967		4.5050	4.5050		14,254.4455	14,254.4455	4.5100		14,367.1944
Total	10.1396	115.9904	67.3406	0.1440		4.8967	4.8967		4.5050	4.5050		14,254.4455	14,254.4455	4.5100		14,367.1944

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	0.1011	3.5186	0.8186	8.7100e-003	6.7626	0.0194	6.7820	0.7082	0.0186	0.7268		951.7494	951.7494	0.0785		953.7121
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,227.9331	1,227.9331	0.0391		1,228.9101
Total	0.7420	6.0956	6.1200	0.0254	143.9484	0.0451	143.9934	14.6207	0.0428	14.6635		2,651.0720	2,651.0720	0.1524		2,654.8822

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.9 T-Line - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5372	69.3621	83.8989	0.1440		2.9382	2.9382		2.9382	2.9382	0.0000	14,254.44 55	14,254.44 55	4.5100		14,367.19 44
Total	3.5372	69.3621	83.8989	0.1440		2.9382	2.9382		2.9382	2.9382	0.0000	14,254.44 55	14,254.44 55	4.5100		14,367.19 44

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1011	3.5186	0.8186	8.7100e-003	2.3212	0.0194	2.3406	0.2641	0.0186	0.2826		951.7494	951.7494	0.0785		953.7121
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.7420	6.0956	6.1200	0.0254	47.6801	0.0451	47.7251	4.9938	0.0428	5.0366		2,651.072 0	2,651.072 0	0.1524		2,654.882 2

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.10 O&M Building 1 - 2019

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

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	0.1976	6.8773	1.5999	0.0170	13.2178	0.0379	13.2558	1.3842	0.0363	1.4205		1,860.2374	1,860.2374	0.1535		1,864.0736
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.0336	0.0261	0.2805	7.4000e-004	7.4906	5.1000e-004	7.4911	0.7597	4.7000e-004	0.7601		73.6760	73.6760	2.3400e-003		73.7346
Total	0.3117	9.0448	2.5067	0.0222	33.0514	0.0556	33.1070	3.3954	0.0532	3.4486		2,405.3029	2,405.3029	0.1906		2,410.0682

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.10 O&M Building 1 - 2019

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1976	6.8773	1.5999	0.0170	4.5368	0.0379	4.5747	0.5161	0.0363	0.5524		1,860.2374	1,860.2374	0.1535		1,864.0736
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.0336	0.0261	0.2805	7.4000e-004	2.4773	5.1000e-004	2.4778	0.2583	4.7000e-004	0.2588		73.6760	73.6760	2.3400e-003		73.7346
Total	0.3117	9.0448	2.5067	0.0222	11.0851	0.0556	11.1408	1.1988	0.0532	1.2520		2,405.3029	2,405.3029	0.1906		2,410.0682

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.11 O&M Building 2 - 2019

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	2.4693	25.9809	13.9261	0.0388		1.0619	1.0619		0.9769	0.9769		3,840.596 1	3,840.596 1	1.2151		3,870.974 2
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.4693	25.9809	13.9261	0.0388		1.0619	1.0619		0.9769	0.9769		3,840.596 1	3,840.596 1	1.2151		3,870.974 2

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	0.0412	1.4328	0.3333	3.5500e-003	2.7537	7.9000e-003	2.7616	0.2884	7.5600e-003	0.2959		387.5495	387.5495	0.0320		388.3487
Vendor	0.0804	2.1414	0.6262	4.3900e-003	12.3430	0.0172	12.3602	1.2516	0.0165	1.2680		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.6820	4.0098	5.6348	0.0203	139.9395	0.0335	139.9730	14.2009	0.0318	14.2326		2,086.872 1	2,086.872 1	0.1059		2,089.518 8

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.11 O&M Building 2 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9524	18.4122	22.0192	0.0388		0.7286	0.7286		0.7286	0.7286	0.0000	3,840.596 1	3,840.596 1	1.2151		3,870.974 2
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9524	18.4122	22.0192	0.0388		0.7286	0.7286		0.7286	0.7286	0.0000	3,840.596 1	3,840.596 1	1.2151		3,870.974 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0412	1.4328	0.3333	3.5500e-003	0.9452	7.9000e-003	0.9531	0.1075	7.5600e-003	0.1151		387.5495	387.5495	0.0320		388.3487
Vendor	0.0804	2.1414	0.6262	4.3900e-003	4.0711	0.0172	4.0883	0.4244	0.0165	0.4408		471.3895	471.3895	0.0348		472.2600
Worker	0.5604	0.4356	4.6752	0.0123	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,227.933 1	1,227.933 1	0.0391		1,228.910 1
Total	0.6820	4.0098	5.6348	0.0203	46.3041	0.0335	46.3376	4.8373	0.0318	4.8691		2,086.872 1	2,086.872 1	0.1059		2,089.518 8

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.12 O&M Building 3 - 2019

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					
Archit. Coating	309.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	310.1857	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0179	0.4759	0.1392	9.8000e-004	2.7429	3.8200e-003	2.7467	0.2781	3.6600e-003	0.2818		104.7532	104.7532	7.7400e-003		104.9467
Worker	0.0112	8.7100e-003	0.0935	2.5000e-004	2.4969	1.7000e-004	2.4970	0.2532	1.6000e-004	0.2534		24.5587	24.5587	7.8000e-004		24.5782
Total	0.0291	0.4846	0.2327	1.2300e-003	5.2398	3.9900e-003	5.2437	0.5313	3.8200e-003	0.5352		129.3119	129.3119	8.5200e-003		129.5249

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

3.12 O&M Building 3 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	309.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	309.9787	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0179	0.4759	0.1392	9.8000e-004	0.9047	3.8200e-003	0.9085	0.0943	3.6600e-003	0.0980		104.7532	104.7532	7.7400e-003		104.9467
Worker	0.0112	8.7100e-003	0.0935	2.5000e-004	0.8258	1.7000e-004	0.8259	0.0861	1.6000e-004	0.0863		24.5587	24.5587	7.8000e-004		24.5782
Total	0.0291	0.4846	0.2327	1.2300e-003	1.7304	3.9900e-003	1.7344	0.1804	3.8200e-003	0.1842		129.3119	129.3119	8.5200e-003		129.5249

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

4.0 Operational Detail - Mobile

4.1 Mobile Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	0.0206	0.0887	0.2786	8.6000e-004	0.0758	9.3000e-004	0.0767	0.0203	8.7000e-004	0.0211		86.3719	86.3719	3.5900e-003		86.4616

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	9.24	9.24	9.24	35,698	35,698
Total	9.24	9.24	9.24	35,698	35,698

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	14.70	6.60	6.60	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	0.566358	0.037171	0.195804	0.123346	0.024195	0.006655	0.017175	0.018049	0.001869	0.001464	0.005229	0.001126	0.001556

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

5.0 Energy Detail

Historical Energy Use: N

Energy by Land Use - NaturalGas

	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	52.2877	5.6000e-004	5.1300e-003	4.3100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1515	6.1515	1.2000e-004	1.1000e-004	6.1881
Total		5.6000e-004	5.1300e-003	4.3100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1515	6.1515	1.2000e-004	1.1000e-004	6.1881

6.0 Area Detail

Area by SubCategory

	ROG	NOx	CO	SO2	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	0.0349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
Total	0.1527	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003

Strauss Wind Energy Project - South Central Coast Air Basin, Summer

7.0 Water Detail

8.0 Waste Detail

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	2.00	260	89	0.20	Diesel
Graders	1	6.00	40	238	0.41	Diesel
Crawler Tractors	1	6.00	40	166	0.43	Diesel
Rollers	1	6.00	40	80	0.38	Diesel

Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Crawler Tractors	0.4483	4.5875	3.1447	4.5800e-003		0.2563	0.2563		0.2358	0.2358		443.4892	443.4892	0.1434		447.0751
Forklifts	0.0360	0.3244	0.2951	3.8000e-004		0.0242	0.0242		0.0222	0.0222		37.0077	37.0077	0.0120		37.3069
Graders	0.4528	6.0189	1.7265	6.3100e-003		0.1924	0.1924		0.1770	0.1770		611.5589	611.5589	0.1978		616.5037
Rollers	0.1541	1.5411	1.4021	1.9400e-003		0.0983	0.0983		0.0904	0.0904		188.1429	188.1429	0.0609		189.6641
Total	1.0912	12.4719	6.5684	0.0132		0.5711	0.5711		0.5254	0.5254		1,280.1987	1,280.1987	0.4140		1,290.5498

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

Winter Worst-Case Daily Emissions

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					
2019	329.4695	417.5462	258.6285	0.6864	662.6648	15.3752	678.0401	67.6684	14.1830	81.8513	0.0000	69,448.8455	69,448.8455	16.3954	0.0000	69,858.7306
Maximum	329.4695	417.5462	258.6285	0.6864	662.6648	15.3752	678.0401	67.6684	14.1830	81.8513	0.0000	69,448.8455	69,448.8455	16.3954	0.0000	69,858.7306

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					
2019	318.8351	293.0113	313.2905	0.6864	220.9234	10.1993	231.1226	23.4919	10.1785	33.6704	0.0000	69,448.8455	69,448.8455	16.3954	0.0000	69,858.7306
Maximum	318.8351	293.0113	313.2905	0.6864	220.9234	10.1993	231.1226	23.4919	10.1785	33.6704	0.0000	69,448.8455	69,448.8455	16.3954	0.0000	69,858.7306

	ROG	NOx	CO	SO2	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	3.23	29.83	-21.14	0.00	66.66	33.66	65.91	65.28	28.23	58.86	0.00	0.00	0.00	0.00	0.00	0.00

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

2.2 Overall Operational
Operational Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1527	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
Energy	5.6000e-004	5.1300e-003	4.3100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1515	6.1515	1.2000e-004	1.1000e-004	6.1881
Mobile	0.0201	0.0931	0.2816	8.3000e-004	0.0758	9.4000e-004	0.0767	0.0203	8.8000e-004	0.0211		83.3751	83.3751	3.6100e-003		83.4653
Offroad	1.0912	12.4719	6.5684	0.0132		0.5711	0.5711		0.5254	0.5254		1,280.1987	1,280.1987	0.4140		1,290.5498
Total	1.2645	12.5702	6.8549	0.0141	0.0758	0.5725	0.6482	0.0203	0.5267	0.5470		1,369.7266	1,369.7266	0.4178	1.1000e-004	1,380.2044

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

(CalEEMod input data/assumptions are the same as shown in the annual output)

3.2 Access Roads - 2019

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	2.2510	25.0915	17.3294	0.0306		1.2080	1.2080		1.1113	1.1113		3,032.7843	3,032.7843	0.9595		3,056.7728
Total	2.2510	25.0915	17.3294	0.0306		1.2080	1.2080		1.1113	1.1113		3,032.7843	3,032.7843	0.9595		3,056.7728

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	0.5694	19.4464	4.7716	0.0470	37.0099	0.1089	37.1188	3.8758	0.1042	3.9799		5,133.9726	5,133.9726	0.4428		5,145.0424
Vendor	0.0188	0.4761	0.1553	9.5000e-004	2.7429	3.9200e-003	2.7468	0.2781	3.7500e-003	0.2819		102.2168	102.2168	8.2100e-003		102.4219
Worker	0.1699	0.1308	1.1845	3.0700e-003	32.4591	2.2000e-003	32.4613	3.2918	2.0200e-003	3.2939		305.9019	305.9019	9.8600e-003		306.1484
Total	0.7581	20.0532	6.1114	0.0510	72.2119	0.1150	72.3269	7.4458	0.1099	7.5557		5,542.0913	5,542.0913	0.4609		5,553.6127

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.2 Access Roads - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7520	15.0304	21.2946	0.0306		0.7541	0.7541		0.7541	0.7541	0.0000	3,032.7843	3,032.7843	0.9595		3,056.7728
Total	0.7520	15.0304	21.2946	0.0306		0.7541	0.7541		0.7541	0.7541	0.0000	3,032.7843	3,032.7843	0.9595		3,056.7728

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5694	19.4464	4.7716	0.0470	12.7030	0.1089	12.8119	1.4451	0.1042	1.5493		5,133.9726	5,133.9726	0.4428		5,145.0424
Vendor	0.0188	0.4761	0.1553	9.5000e-004	0.9047	3.9200e-003	0.9086	0.0943	3.7500e-003	0.0981		102.2168	102.2168	8.2100e-003		102.4219
Worker	0.1699	0.1308	1.1845	3.0700e-003	10.7348	2.2000e-003	10.7370	1.1194	2.0200e-003	1.1214		305.9019	305.9019	9.8600e-003		306.1484
Total	0.7581	20.0532	6.1114	0.0510	24.3425	0.1150	24.4575	2.6588	0.1099	2.7687		5,542.0913	5,542.0913	0.4609		5,553.6127

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.3 Site Roads, Laydown, Batch Plant - 2019

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	14.0604	152.0244	92.2711	0.2274		6.1555	6.1555		5.6856	5.6856		22,477.24 48	22,477.24 48	6.9551		22,651.12 24
Total	14.0604	152.0244	92.2711	0.2274		6.1555	6.1555		5.6856	5.6856		22,477.24 48	22,477.24 48	6.9551		22,651.12 24

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	0.1469	5.0159	1.2308	0.0121	9.5462	0.0281	9.5743	0.9997	0.0269	1.0266		1,324.239 0	1,324.239 0	0.1142		1,327.094 3
Vendor	0.2256	5.7128	1.8630	0.0114	32.9147	0.0470	32.9617	3.3375	0.0450	3.3825		1,226.601 5	1,226.601 5	0.0985		1,229.063 3
Worker	0.6533	0.5029	4.5559	0.0118	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,176.545 8	1,176.545 8	0.0379		1,177.493 8
Total	1.0258	11.2316	7.6497	0.0354	167.3037	0.0835	167.3872	16.9981	0.0796	17.0777		3,727.386 2	3,727.386 2	0.2506		3,733.651 3

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.3 Site Roads, Laydown, Batch Plant - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.5410	108.3326	126.9307	0.2274		4.4434	4.4434		4.4434	4.4434	0.0000	22,477.24 48	22,477.24 48	6.9551		22,651.12 23
Total	5.5410	108.3326	126.9307	0.2274		4.4434	4.4434		4.4434	4.4434	0.0000	22,477.24 48	22,477.24 48	6.9551		22,651.12 23

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1469	5.0159	1.2308	0.0121	3.2766	0.0281	3.3047	0.3728	0.0269	0.3996		1,324.239 0	1,324.239 0	0.1142		1,327.094 3
Vendor	0.2256	5.7128	1.8630	0.0114	10.8562	0.0470	10.9032	1.1316	0.0450	1.1766		1,226.601 5	1,226.601 5	0.0985		1,229.063 3
Worker	0.6533	0.5029	4.5559	0.0118	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,176.545 8	1,176.545 8	0.0379		1,177.493 8
Total	1.0258	11.2316	7.6497	0.0354	55.4206	0.0835	55.5041	5.8098	0.0796	5.8894		3,727.386 2	3,727.386 2	0.2506		3,733.651 3

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.4 Foundations - 2019

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					17.0634	0.0000	17.0634	2.0480	0.0000	2.0480			0.0000			0.0000
Off-Road	0.9500	10.3851	9.3992	0.0209		0.5005	0.5005		0.4604	0.4604		2,062.9375	2,062.9375	0.6527		2,079.2548
Total	0.9500	10.3851	9.3992	0.0209	17.0634	0.5005	17.5639	2.0480	0.4604	2.5085		2,062.9375	2,062.9375	0.6527		2,079.2548

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	0.0427	1.4566	0.3574	3.5200e-003	2.7721	8.1500e-003	2.7802	0.2903	7.8000e-003	0.2981		384.5386	384.5386	0.0332		385.3678
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.3267	0.2514	2.2780	5.9100e-003	62.4214	4.2200e-003	62.4256	6.3305	3.8900e-003	6.3344		588.2729	588.2729	0.0190		588.7469
Total	0.4539	3.8503	3.3340	0.0137	77.5365	0.0300	77.5665	7.8723	0.0286	7.9009		1,432.7871	1,432.7871	0.0891		1,435.0134

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.4 Foundations - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6786	0.0000	7.6786	0.9216	0.0000	0.9216			0.0000			0.0000
Off-Road	0.5131	10.4099	13.5040	0.0209		0.5219	0.5219		0.5219	0.5219	0.0000	2,062.9375	2,062.9375	0.6527		2,079.2548
Total	0.5131	10.4099	13.5040	0.0209	7.6786	0.5219	8.2004	0.9216	0.5219	1.4435	0.0000	2,062.9375	2,062.9375	0.6527		2,079.2548

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0427	1.4566	0.3574	3.5200e-003	0.9515	8.1500e-003	0.9596	0.1082	7.8000e-003	0.1160		384.5386	384.5386	0.0332		385.3678
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.3267	0.2514	2.2780	5.9100e-003	20.6439	4.2200e-003	20.6481	2.1527	3.8900e-003	2.1566		588.2729	588.2729	0.0190		588.7469
Total	0.4539	3.8503	3.3340	0.0137	25.6665	0.0300	25.6965	2.6853	0.0286	2.7139		1,432.7871	1,432.7871	0.0891		1,435.0134

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.5 Collection System - 2019

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.6791	16.4018	9.1693	0.0168		0.8700	0.8700		0.8004	0.8004		1,662.288 2	1,662.288 2	0.5259		1,675.436 4
Total	1.6791	16.4018	9.1693	0.0168	0.5303	0.8700	1.4002	0.0573	0.8004	0.8576		1,662.288 2	1,662.288 2	0.5259		1,675.436 4

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	0.0254	0.8668	0.2127	2.0900e-003	1.6497	4.8500e-003	1.6545	0.1728	4.6400e-003	0.1774		228.8426	228.8426	0.0197		229.3360
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.0915	0.0704	0.6378	1.6500e-003	17.4780	1.1800e-003	17.4792	1.7725	1.0900e-003	1.7736		164.7164	164.7164	5.3100e-003		164.8491
Total	0.2015	3.0795	1.5491	8.0300e-003	31.4707	0.0237	31.4944	3.1969	0.0226	3.2195		853.5346	853.5346	0.0620		855.0839

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.5 Collection System - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.4638	9.1895	10.7588	0.0168		0.5005	0.5005		0.5005	0.5005	0.0000	1,662.288 2	1,662.288 2	0.5259		1,675.436 4
Total	0.4638	9.1895	10.7588	0.0168	0.2386	0.5005	0.7391	0.0258	0.5005	0.5262	0.0000	1,662.288 2	1,662.288 2	0.5259		1,675.436 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0254	0.8668	0.2127	2.0900e-003	0.5662	4.8500e-003	0.5711	0.0644	4.6400e-003	0.0691		228.8426	228.8426	0.0197		229.3360
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.0915	0.0704	0.6378	1.6500e-003	5.7803	1.1800e-003	5.7815	0.6028	1.0900e-003	0.6039		164.7164	164.7164	5.3100e-003		164.8491
Total	0.2015	3.0795	1.5491	8.0300e-003	10.4176	0.0237	10.4413	1.0915	0.0226	1.1141		853.5346	853.5346	0.0620		855.0839

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.6 WTG Deliveries - 2019

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	2.4342	28.6333	20.2361	0.0401		1.1175	1.1175		1.0281	1.0281		3,970.2536	3,970.2536	1.2562		4,001.6572
Total	2.4342	28.6333	20.2361	0.0401	0.0000	1.1175	1.1175	0.0000	1.0281	1.0281		3,970.2536	3,970.2536	1.2562		4,001.6572

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	0.9181	29.9025	7.5469	0.0894	2.2342	0.2087	2.4429	0.6114	0.1997	0.8110		9,774.9435	9,774.9435	0.7040		9,792.5442
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,176.5458	1,176.5458	0.0379		1,177.4938
Total	1.6561	32.5477	12.8014	0.1055	139.4200	0.2348	139.6547	14.5239	0.2243	14.7482		11,411.4649	11,411.4649	0.7789		11,430.9367

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.6 WTG Deliveries - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9849	19.0407	22.4407	0.0401		0.7463	0.7463		0.7463	0.7463	0.0000	3,970.2536	3,970.2536	1.2562		4,001.6572
Total	0.9849	19.0407	22.4407	0.0401	0.0000	0.7463	0.7463	0.0000	0.7463	0.7463	0.0000	3,970.2536	3,970.2536	1.2562		4,001.6572

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9181	29.9025	7.5469	0.0894	2.2342	0.2087	2.4429	0.6114	0.1997	0.8110		9,774.9435	9,774.9435	0.7040		9,792.5442
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,176.5458	1,176.5458	0.0379		1,177.4938
Total	1.6561	32.5477	12.8014	0.1055	47.5931	0.2348	47.8279	5.3412	0.2243	5.5655		11,411.4649	11,411.4649	0.7789		11,430.9367

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.7 WTG Erection - 2019

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	2.3171	28.7396	21.2809	0.0352		1.1499	1.1499		1.0579	1.0579		3,482.9403	3,482.9403	1.1020		3,510.4894
Total	2.3171	28.7396	21.2809	0.0352	0.0000	1.1499	1.1499	0.0000	1.0579	1.0579		3,482.9403	3,482.9403	1.1020		3,510.4894

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	0.0195	0.6663	0.1635	1.6100e-003	1.2680	3.7300e-003	1.2717	0.1328	3.5700e-003	0.1364		175.8940	175.8940	0.0152		176.2733
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,176.5458	1,176.5458	0.0379		1,177.4938
Total	0.7575	3.3114	5.4180	0.0177	138.4538	0.0298	138.4836	14.0453	0.0282	14.0735		1,812.4153	1,812.4153	0.0900		1,814.6658

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.7 WTG Erection - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8653	16.7297	19.8507	0.0352		0.6586	0.6586		0.6586	0.6586	0.0000	3,482.9403	3,482.9403	1.1020		3,510.4894
Total	0.8653	16.7297	19.8507	0.0352	0.0000	0.6586	0.6586	0.0000	0.6586	0.6586	0.0000	3,482.9403	3,482.9403	1.1020		3,510.4894

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0195	0.6663	0.1635	1.6100e-003	0.4352	3.7300e-003	0.4390	0.0495	3.5700e-003	0.0531		175.8940	175.8940	0.0152		176.2733
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,176.5458	1,176.5458	0.0379		1,177.4938
Total	0.7575	3.3114	5.4180	0.0177	45.7941	0.0298	45.8239	4.7793	0.0282	4.8075		1,812.4153	1,812.4153	0.0900		1,814.6658

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.8 Substation - 2019

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	1.3387	14.9244	12.6312	0.0196		0.7361	0.7361		0.6772	0.6772		1,940.6516	1,940.6516	0.6140		1,956.0016
Total	1.3387	14.9244	12.6312	0.0196		0.7361	0.7361		0.6772	0.6772		1,940.6516	1,940.6516	0.6140		1,956.0016

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	0.0650	2.2208	0.5449	5.3700e-003	4.2266	0.0124	4.2391	0.4426	0.0119	0.4545		586.3133	586.3133	0.0506		587.5775
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.1307	0.1006	0.9112	2.3600e-003	24.9686	1.6900e-003	24.9702	2.5322	1.5600e-003	2.5337		235.3092	235.3092	7.5800e-003		235.4988
Total	0.2803	4.4637	2.1547	0.0120	41.5382	0.0318	41.5699	4.2264	0.0303	4.2567		1,281.5980	1,281.5980	0.0951		1,283.9750

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.8 Substation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4823	9.5244	13.7113	0.0196		0.4628	0.4628		0.4628	0.4628	0.0000	1,940.6516	1,940.6516	0.6140		1,956.0016
Total	0.4823	9.5244	13.7113	0.0196		0.4628	0.4628		0.4628	0.4628	0.0000	1,940.6516	1,940.6516	0.6140		1,956.0016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0650	2.2208	0.5449	5.3700e-003	1.4507	0.0124	1.4632	0.1650	0.0119	0.1769		586.3133	586.3133	0.0506		587.5775
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.1307	0.1006	0.9112	2.3600e-003	8.2576	1.6900e-003	8.2593	0.8611	1.5600e-003	0.8626		235.3092	235.3092	7.5800e-003		235.4988
Total	0.2803	4.4637	2.1547	0.0120	13.7794	0.0318	13.8111	1.4505	0.0303	1.4808		1,281.5980	1,281.5980	0.0951		1,283.9750

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.9 T-Line - 2019

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	10.1396	115.9904	67.3406	0.1440		4.8967	4.8967		4.5050	4.5050		14,254.4455	14,254.4455	4.5100		14,367.1944
Total	10.1396	115.9904	67.3406	0.1440		4.8967	4.8967		4.5050	4.5050		14,254.4455	14,254.4455	4.5100		14,367.1944

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	0.1040	3.5533	0.8719	8.5900e-003	6.7626	0.0199	6.7825	0.7082	0.0190	0.7272		938.1013	938.1013	0.0809		940.1240
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,176.5458	1,176.5458	0.0379		1,177.4938
Total	0.8420	6.1985	6.1264	0.0247	143.9484	0.0460	143.9944	14.6207	0.0437	14.6644		2,574.6226	2,574.6226	0.1558		2,578.5165

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.9 T-Line - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5372	69.3621	83.8989	0.1440		2.9382	2.9382		2.9382	2.9382	0.0000	14,254.4455	14,254.4455	4.5100		14,367.1944
Total	3.5372	69.3621	83.8989	0.1440		2.9382	2.9382		2.9382	2.9382	0.0000	14,254.4455	14,254.4455	4.5100		14,367.1944

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1040	3.5533	0.8719	8.5900e-003	2.3212	0.0199	2.3410	0.2641	0.0190	0.2831		938.1013	938.1013	0.0809		940.1240
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,176.5458	1,176.5458	0.0379		1,177.4938
Total	0.8420	6.1985	6.1264	0.0247	47.6801	0.0460	47.7260	4.9938	0.0437	5.0375		2,574.6226	2,574.6226	0.1558		2,578.5165

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.10 O&M Building 1 - 2019

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

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	0.2034	6.9451	1.7042	0.0168	13.2178	0.0389	13.2567	1.3842	0.0372	1.4214		1,833.5616	1,833.5616	0.1581		1,837.5152
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.0392	0.0302	0.2734	7.1000e-004	7.4906	5.1000e-004	7.4911	0.7597	4.7000e-004	0.7601		70.5928	70.5928	2.2800e-003		70.6496
Total	0.3272	9.1176	2.6761	0.0218	33.0514	0.0570	33.1084	3.3954	0.0545	3.4500		2,364.1300	2,364.1300	0.1974		2,369.0635

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.10 O&M Building 1 - 2019

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2034	6.9451	1.7042	0.0168	4.5368	0.0389	4.5757	0.5161	0.0372	0.5533		1,833.5616	1,833.5616	0.1581		1,837.5152
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.0392	0.0302	0.2734	7.1000e-004	2.4773	5.1000e-004	2.4778	0.2583	4.7000e-004	0.2588		70.5928	70.5928	2.2800e-003		70.6496
Total	0.3272	9.1176	2.6761	0.0218	11.0851	0.0570	11.1422	1.1988	0.0545	1.2533		2,364.1300	2,364.1300	0.1974		2,369.0635

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.11 O&M Building 2 - 2019

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	2.4693	25.9809	13.9261	0.0388		1.0619	1.0619		0.9769	0.9769		3,840.596 1	3,840.596 1	1.2151		3,870.974 2
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.4693	25.9809	13.9261	0.0388		1.0619	1.0619		0.9769	0.9769		3,840.596 1	3,840.596 1	1.2151		3,870.974 2

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	0.0424	1.4469	0.3550	3.5000e-003	2.7537	8.1000e-003	2.7618	0.2884	7.7500e-003	0.2961		381.9920	381.9920	0.0330		382.8157
Vendor	0.0846	2.1423	0.6986	4.2900e-003	12.3430	0.0176	12.3606	1.2516	0.0169	1.2684		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	124.8428	8.4400e-003	124.8512	12.6609	7.7900e-003	12.6687		1,176.545 8	1,176.545 8	0.0379		1,177.493 8
Total	0.7803	4.0921	5.6096	0.0196	139.9395	0.0342	139.9737	14.2009	0.0324	14.2333		2,018.513 3	2,018.513 3	0.1078		2,021.208 2

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.11 O&M Building 2 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9524	18.4122	22.0192	0.0388		0.7286	0.7286		0.7286	0.7286	0.0000	3,840.596 ₁	3,840.596 ₁	1.2151		3,870.974 ₂
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9524	18.4122	22.0192	0.0388		0.7286	0.7286		0.7286	0.7286	0.0000	3,840.596₁	3,840.596₁	1.2151		3,870.974₂

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0424	1.4469	0.3550	3.5000e-003	0.9452	8.1000e-003	0.9533	0.1075	7.7500e-003	0.1153		381.9920	381.9920	0.0330		382.8157
Vendor	0.0846	2.1423	0.6986	4.2900e-003	4.0711	0.0176	4.0887	0.4244	0.0169	0.4412		459.9756	459.9756	0.0369		460.8987
Worker	0.6533	0.5029	4.5559	0.0118	41.2878	8.4400e-003	41.2963	4.3054	7.7900e-003	4.3132		1,176.545 ₈	1,176.545 ₈	0.0379		1,177.493 ₈
Total	0.7803	4.0921	5.6096	0.0196	46.3041	0.0342	46.3382	4.8373	0.0324	4.8697		2,018.513₃	2,018.513₃	0.1078		2,021.208₂

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.12 O&M Building 3 - 2019

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					
Archit. Coating	309.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	310.1857	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0188	0.4761	0.1553	9.5000e-004	2.7429	3.9200e-003	2.7468	0.2781	3.7500e-003	0.2819		102.2168	102.2168	8.2100e-003		102.4219
Worker	0.0131	0.0101	0.0911	2.4000e-004	2.4969	1.7000e-004	2.4970	0.2532	1.6000e-004	0.2534		23.5309	23.5309	7.6000e-004		23.5499
Total	0.0319	0.4861	0.2464	1.1900e-003	5.2398	4.0900e-003	5.2438	0.5313	3.9100e-003	0.5352		125.7477	125.7477	8.9700e-003		125.9718

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

3.12 O&M Building 3 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	309.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	309.9787	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0188	0.4761	0.1553	9.5000e-004	0.9047	3.9200e-003	0.9086	0.0943	3.7500e-003	0.0981		102.2168	102.2168	8.2100e-003		102.4219
Worker	0.0131	0.0101	0.0911	2.4000e-004	0.8258	1.7000e-004	0.8259	0.0861	1.6000e-004	0.0863		23.5309	23.5309	7.6000e-004		23.5499
Total	0.0319	0.4861	0.2464	1.1900e-003	1.7304	4.0900e-003	1.7345	0.1804	3.9100e-003	0.1843		125.7477	125.7477	8.9700e-003		125.9718

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

4.0 Operational Detail - Mobile

4.1 Mobile Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	0.0201	0.0931	0.2816	8.3000e-004	0.0758	9.4000e-004	0.0767	0.0203	8.8000e-004	0.0211		83.3751	83.3751	3.6100e-003		83.4653

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	9.24	9.24	9.24	35,698	35,698
Total	9.24	9.24	9.24	35,698	35,698

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	14.70	6.60	6.60	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	0.566358	0.037171	0.195804	0.123346	0.024195	0.006655	0.017175	0.018049	0.001869	0.001464	0.005229	0.001126	0.001556

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

5.0 Energy Detail

Historical Energy Use: N

Energy by Land Use - NaturalGas

	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	52.2877	5.6000e-004	5.1300e-003	4.3100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1515	6.1515	1.2000e-004	1.1000e-004	6.1881
Total		5.6000e-004	5.1300e-003	4.3100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1515	6.1515	1.2000e-004	1.1000e-004	6.1881

6.0 Area Detail

Area by SubCategory

	ROG	NOx	CO	SO2	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	0.0349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
Total	0.1527	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003

Strauss Wind Energy Project - South Central Coast Air Basin, Winter

7.0 Water Detail

8.0 Waste Detail

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	2.00	260	89	0.20	Diesel
Graders	1	6.00	40	238	0.41	Diesel
Crawler Tractors	1	6.00	40	166	0.43	Diesel
Rollers	1	6.00	40	80	0.38	Diesel

Emissions

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Crawler Tractors	0.4483	4.5875	3.1447	4.5800e-003		0.2563	0.2563		0.2358	0.2358		443.4892	443.4892	0.1434		447.0751
Forklifts	0.0360	0.3244	0.2951	3.8000e-004		0.0242	0.0242		0.0222	0.0222		37.0077	37.0077	0.0120		37.3069
Graders	0.4528	6.0189	1.7265	6.3100e-003		0.1924	0.1924		0.1770	0.1770		611.5589	611.5589	0.1978		616.5037
Rollers	0.1541	1.5411	1.4021	1.9400e-003		0.0983	0.0983		0.0904	0.0904		188.1429	188.1429	0.0609		189.6641
Total	1.0912	12.4719	6.5684	0.0132		0.5711	0.5711		0.5254	0.5254		1,280.1987	1,280.1987	0.4140		1,290.5498