

Updated Regional Peak Daily Uncontrolled Construction Emissions

Year	Regional Peak Daily Emissions (Pounds per Day)					
	PM _{2.5}	PM ₁₀	NO _x	SO _x	CO	VOCs
2016	63.35	164.89	1,167.62	1.39	687.57	104.58
2017	60.74	180.10	1,029.54	1.38	626.22	91.47
2018	24.73	52.28	497.91	0.72	335.25	57.13
2019	28.48	94.15	501.94	0.86	358.68	45.31
2020	9.90	34.58	198.01	0.32	162.27	30.56
2021	4.05	24.18	35.61	0.10	35.79	3.70
Threshold	55	150	100	150	550	75
Threshold Exceeded?	Yes	Yes	Yes	No	Yes	Yes

Notes: 1. Shaded cells indicate emissions that exceed the threshold.

2. PM_{2.5} = particulate matter less than 2.5 microns in diameter; PM₁₀ = particulate matter less than 10 microns in diameter; NO_x = nitrogen oxide; SO_x = sulfur oxide; CO = carbon monoxide; VOCs = volatile organic compounds.

Updated Regional Peak Daily Controlled Construction Emissions

Year	Regional Peak Daily Emissions (Pounds per Day)					
	PM _{2.5}	PM ₁₀	NO _x	SO _x	CO	VOCs
2016	32.80	68.07	601.12	1.39	741.45	32.39
2017	32.91	74.36	574.66	1.38	689.56	30.98
2018	16.54	27.26	320.63	0.72	406.72	29.00
2019	19.71	41.85	366.85	0.86	437.86	19.45
2020	8.18	16.46	140.31	0.32	195.67	19.39
2021	2.69	9.37	29.89	0.10	43.39	2.35
Threshold	55	150	100	150	550	75
Threshold Exceeded?	No	No	Yes	No	Yes	No

Note: Shaded cells indicate emissions that exceed the threshold.

Updated Localized Significance Threshold Analysis Results

Activity	Approximate Construction Emissions (Pounds per Day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Mesa Substation	242.49	300.16	12.23	12.18
South Coast Air Quality Management District's (SCAQMD) Localized Significance Threshold	181.27	2,325.52	54.15	16.73
Exceeds Threshold?	Yes	No	No	No
Transmission/Subtransmission				
Lattice Steel Tower (LST) Foundations	35.57	40.29	1.49	1.49
Tubular Steel Pole (TSP) Foundations	25.52	31.62	1.17	1.17
LST Erection	32.29	36.49	1.44	1.43
TSP Erection	15.69	17.64	0.69	0.69
TSP Foundation Removal	19.78	25.70	1.07	1.07
Duct Bank Installation	18.87	23.58	1.07	1.07
SCAQMD Localized Significance Threshold	181.52	1,850.06	20.15	9.64
Exceeds Threshold?	No	No	No	No

Notes: 1. Shaded cell indicates emissions that exceed the threshold.

2. SCAQMD's Localized Significance Thresholds are based on a 5-acre site. A distance of 280 feet to the receptor was used for Mesa Substation, and a distance of 100 feet to the receptor was used for the transmission and subtransmission lines. Linear interpolation was used to develop site-specific thresholds.

Updated Greenhouse Gas Construction Emissions

Category	GHG Emissions (Metric Tons per Year)			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
GWP	1	21	310	N/A
Annual Construction Equipment and Vehicle Emissions				
2016	8,862.8	2.0	0.0	8,904.4
2017	5,998.5	1.5	0.0	6,030.6
2018	4,419.3	1.2	0.0	4,444.2
2019	7,082.0	1.8	0.0	7,119.7
2020	1,912.6	0.5	0.0	1,922.4
2021	279.4	0.1	0.0	280.6
Subtotal	28,554.4	7.0	0.0	28,701.90
Annual Helicopter Emissions				
2016	--	--	--	50.9
2017	--	--	--	26.7
2018	--	--	--	36.4
2019	--	--	--	--
2020	--	--	--	36.4
2021	--	--	--	--
Subtotal	--	--	--	150.3
Total CO₂e	28,852.2			
Amortized Construction Emissions (Amortized CO₂e over 30 Years)	961.74			

Note: "N/A" = Not Applicable