

Table 1. Summary of Energy Use During Construction

Fuel Type	Quantity
Diesel	
Off-Road Construction Equipment	34,846 Gallons
On-Road Motor Vehicles	11,805 Gallons
Total	46,651 Gallons
Gasoline	
Off-Road Construction Equipment	0 Gallons
On-Road Motor Vehicles	5,940 Gallons
Total	5,940 Gallons
Electricity	
Total	1,762.5 kWh

Table 2. Summary of Annual Energy Use During Operation		
Source	Units	Buildout
Electricity		
Warehouse	kWh/yr	1,214,280
Water Conveyance	kWh/yr	218,817
<i>Total Electricity</i>	<i>kWh/yr</i>	<i>1,433,097</i>
Transportation/On-Site Sources		
Diesel	gallons	4
Gasoline	gallons	21
Total	gallons	25

Table 3. Water by Land Use				
		Project		
Land Use	Units	Indoor/Outdoor Use	Indoor Use	Outdoor Use
Buildout	Mgal	16.8049 / 0	16.8049	0

Water and Wastewater Electricity Intensity (kWh/gallon)

Supply Water	0.009727
Treat Water	0.000111
Distribute Water	0.001272
Wastewater Treatment	0.001911

Source: CalEEMod User's Guide, Appendix D, Table 9.2

Indoor Water Factor	0.013021 kWh/gallon (supply, treat, distribute, wastewater treatment)
Outdoor Water Factor	0.01111 kWh/gallon (supply, treat, and distribute)

Notes:

Electricity and Natural Gas for the Proposed Project is total operational usage.

Electricity, natural gas, and mobile usage was calculated from CalEEMod.

Table 4. Off-Road Equipment Fuel Usage During Construction

Phase Name	Off-road Equipment Type	Amount	Hours per Day	Horsepower	Load Factor	Number of Days	Diesel Fuel Usage (Gallons per Project)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	20	473
Demolition	Rubber Tired Dozers	1	8	247	0.4	20	790
Demolition	Tractors/Loaders/Backhoes	3	8	97	0.37	20	861
Grading	Graders	1	8	187	0.41	60	1,840
Grading	Rubber Tired Dozers	1	8	247	0.4	60	2,371
Grading	Tractors/Loaders/Backhoes	2	7	97	0.37	60	1,507
Building Construction	Cranes	1	6	231	0.29	292	5,868
Building Construction	Forklifts	1	6	89	0.2	292	1,559
Building Construction	Generator Sets	1	8	84	0.74	292	7,260
Building Construction	Tractors/Loaders/Backhoes	1	6	97	0.37	292	3,144
Building Construction	Welders	3	8	46	0.45	292	7,253
Architectural Coating	Air Compressors	1	6	78	0.48	44	494
Paving	Cement and Mortar Mixers	1	6	9	0.56	23	35
Paving	Pavers	1	6	130	0.42	23	377
Paving	Paving Equipment	1	8	132	0.36	23	437
Paving	Rollers	1	7	80	0.38	23	245
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	23	330
Project Total							34,846

Notes:

Equipment assumptions from CalEEMod.

Fuel usage estimate of 0.05 gallons per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3 E.

Table 5. On-Road Vehicle Fuel Usage During Construction

Sub Area 1	Days	Daily Trips		Total			Trip Length (Miles)			Total Length (Miles)			Fuel Consumption (Gallons)	
		Worker	Vendor	Worker Trips	Vendor Trips	Haul Trips	Worker	Vendor	Hauling	Worker	Vendor	Hauling	Gasoline	Diesel
Demolition	20	13	0	260	0	114	14.7	6.9	20	3,822	0	2,280	147	487
Grading	60	10	0	600	0	875	14.7	6.9	20	8,820	0	17,500	340	3,125
Building Construction	292	31	12	9,052	3,504	0	14.7	6.9	20	133,064	24,178	0	5,133	7,944
Architectural Coating	44	6	0	264	0	0	14.7	6.9	20	3,881	0	0	150	116
Paving	23	13	0	299	0	0	14.7	6.9	20	4,395	0	0	170	132
Total	439	73	12	10,475	3,504	989	n/a	n/a	n/a	153,983	24,178	19,780	5,940	11,805

Fuel Efficiency	Gas	DSL
Workers	25.92	33.34
Vendor/Haul Trucks	0	6.12

Notes:
 Fuel efficiency calculated in **Table 7: EMFAC2021 Results - Construction.**

Table 6. Water Usage for Control of Fugitive Dust During Construction			
Phase Name	Total Acres	Gallons for Project	Electricity (kWh)
Project	60.0	181,200	1,762.5

Notes:

Total acres graded based on CalEEMod output sheets.

Water Usage

3,020 gallons per acre per day

Source: Air & Waste Management Association, Air Pollution Engineering Manual, 1992 Edition

Supply Water Electricity Intensity

0.009727 kWh/gallons (CalEEMod default)

Table 7. EMFAC2021 Results - Construction								
Vehicle Class	Fuel	VMT (miles per day)	Fuel (1,000 gal per day)	Fuel Efficiency (miles per gallon)	Fuel	VMT (miles per day)	Fuel (1,000 gal per day)	Fuel Efficiency (miles per gallon)
LDA	GAS	137,073,184	4,822.80	28.42	DSL	293,631	7.38	39.79
LDT1	GAS	11,785,010	496.19	23.75	DSL	2,742	0.12	23.02
LDT2	GAS	64,432,894	2,789.86	23.10	DSL	207,450	6.74	30.76
Average (LDA, LDT1, LDT2)				25.92				33.34
T7 Tractor Construction	DSL	1,094,115	178.87	6.12				

Construction Worker Fleet Mix

LDA	50%
LDT1	25%
LDT2	25%

Vendor and Delivery/Haul Truck Fleet Mix

HHDT	100%
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Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2023	LDA	Aggregate	Aggregate	Gasoline	3441156.829	137073184.4	16009114.8	4822.80171
Los Angeles	2023	LDA	Aggregate	Aggregate	Diesel	9775.319042	293630.7483	40275.14162	7.379568678
Los Angeles	2023	LDA	Aggregate	Aggregate	Electricity	151623.2415	7061879.328	760271.3308	0
Los Angeles	2023	LDT1	Aggregate	Aggregate	Gasoline	323318.13	11785009.61	1422834.476	496.1919658
Los Angeles	2023	LDT1	Aggregate	Aggregate	Diesel	135.0073317	2742.331596	393.0172363	0.119110541
Los Angeles	2023	LDT1	Aggregate	Aggregate	Electricity	742.9947618	27278.16669	3426.926275	0
Los Angeles	2023	LDT2	Aggregate	Aggregate	Gasoline	1558892.967	64432893.96	7331379.819	2789.861614
Los Angeles	2023	LDT2	Aggregate	Aggregate	Diesel	4736.11341	207450.1233	22903.15484	6.743871515
Los Angeles	2023	T7 Tractor Class	Aggregate	Aggregate	Diesel	13663.14728	1094114.733	198525.53	178.8678766
									8301.965717
									8301965.717
		Gas		8108.85529	8108855.29	2959732181	35,378,625.00		
		Diesel		193.1104274	193110.4274	70485305.98	10,548,851.00	3,030,217,486.81	
							45,927,476.00		

Table 8. On road Vehicles - Operational				
Scenario	Net Daily VMT	Fuel Consumption (gal)		
		Gasoline	Diesel	Total
Project	580	21	4	25

Table 9. Fuel Consumption Summary		
Fuel	Fuel Efficiency (MPG)	%Fleet
Gasoline	25.5	94.0%
Diesel	8.8	6.0%

Notes:

Percent fleet and fuel efficiency based on

Table 10: EMFAC2021 Emissions

Inventory-Operations

Daily VMT obtained from the Project's transportation study

Table 10. EMFAC2021 Emissions Inventory - Operations				
Fuel	VMT (miles/day)	Fuel Consumption (1,000 gal/day)	Fuel Efficiency (miles per gallon)	Fuel Percentage
GAS	254,430,680	9,969	25.5	94
DSL	14,920,274	1,702	8.8	6

Note: Fuel percentage based on VMT.

Fuel efficiency calculated using fuel consumption and VMT from EMFAC2021.

Buildout

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2026	All Other Buses	Aggregate	Aggregate	Diesel	1577.144606	83653.61317	14036.587	8.89033752
Los Angeles	2026	LDA	Aggregate	Aggregate	Diesel	7603.82603	223728.0428	31267.413	5.40671081
Los Angeles	2026	LDT1	Aggregate	Aggregate	Diesel	91.71661292	1779.504876	253.83915	0.07660966
Los Angeles	2026	LDT2	Aggregate	Aggregate	Diesel	5511.92684	235022.5645	26496.849	7.1413275
Los Angeles	2026	LHD1	Aggregate	Aggregate	Diesel	63748.10011	2790671.571	801870.9	134.845621
Los Angeles	2026	LHD2	Aggregate	Aggregate	Diesel	29198.61098	1249447.658	367281.79	71.3199123
Los Angeles	2026	MDV	Aggregate	Aggregate	Diesel	11515.11795	444014.2179	54011.976	18.0957471
Los Angeles	2026	MH	Aggregate	Aggregate	Diesel	5962.368848	62775.38193	596.23688	6.29895358
Los Angeles	2026	Motor Coach	Aggregate	Aggregate	Diesel	673.3734339	86910.04962	15474.122	15.3944672
Los Angeles	2026	PTO	Aggregate	Aggregate	Diesel	0	112134.0316	0	22.0658858
Los Angeles	2026	SBUS	Aggregate	Aggregate	Diesel	1845.327618	37526.5397	26720.344	5.05759178
Los Angeles	2026	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	34.59804293	2272.669244	795.06303	0.24193448
Los Angeles	2026	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	45.54217138	3125.517655	1046.5591	0.33320713
Los Angeles	2026	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	158.291874	8086.997172	3637.5473	0.84830839
Los Angeles	2026	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	257.2839646	51501.71979	5912.3855	5.00143553
Los Angeles	2026	T6 Instate Delivery	Aggregate	Aggregate	Diesel	3978.752841	133078.5822	56776.803	14.8678341
Los Angeles	2026	T6 Instate Delivery	Aggregate	Aggregate	Diesel	4091.422189	137573.5555	58384.595	15.4905566
Los Angeles	2026	T6 Instate Delivery	Aggregate	Aggregate	Diesel	12526.71442	420265.3257	178756.21	47.1380538
Los Angeles	2026	T6 Instate Delivery	Aggregate	Aggregate	Diesel	3173.477822	170453.9473	45285.529	18.7329728
Los Angeles	2026	T6 Instate Other Cl	Aggregate	Aggregate	Diesel	5062.018398	207768.8421	58516.933	23.2684227

Los Angeles	2026 T6 Instate Other Cl:	Aggregate	Aggregate	Diesel	11325.96197	479965.5922	130928.12	54.0013959
Los Angeles	2026 T6 Instate Other Cl:	Aggregate	Aggregate	Diesel	10172.15265	426950.326	117590.08	47.9022041
Los Angeles	2026 T6 Instate Other Cl:	Aggregate	Aggregate	Diesel	4822.681993	215295.0228	55750.204	23.7447966
Los Angeles	2026 T6 Instate Tractor C	Aggregate	Aggregate	Diesel	139.1601528	7049.325919	1608.6914	0.78498264
Los Angeles	2026 T6 Instate Tractor C	Aggregate	Aggregate	Diesel	1841.285398	105168.7544	21285.259	10.9413838
Los Angeles	2026 T6 OOS Class 4	Aggregate	Aggregate	Diesel	20.39803861	1331.900132	468.74693	0.13920726
Los Angeles	2026 T6 OOS Class 5	Aggregate	Aggregate	Diesel	26.70913906	1827.127474	613.77602	0.19150917
Los Angeles	2026 T6 OOS Class 6	Aggregate	Aggregate	Diesel	93.77124532	4774.336365	2154.8632	0.48929702
Los Angeles	2026 T6 OOS Class 7	Aggregate	Aggregate	Diesel	138.0050024	34715.36221	3171.355	3.33622228
Los Angeles	2026 T6 Public Class 4	Aggregate	Aggregate	Diesel	698.804686	24579.85621	3584.868	2.85206611
Los Angeles	2026 T6 Public Class 5	Aggregate	Aggregate	Diesel	483.1625134	17067.28997	2478.6237	2.00467492
Los Angeles	2026 T6 Public Class 6	Aggregate	Aggregate	Diesel	585.5581219	20560.03119	3003.9132	2.40702829
Los Angeles	2026 T6 Public Class 7	Aggregate	Aggregate	Diesel	2542.346313	113185.1106	13042.237	12.966377
Los Angeles	2026 T6 Utility Class 5	Aggregate	Aggregate	Diesel	633.6903187	25515.55993	8111.2361	2.73037784
Los Angeles	2026 T6 Utility Class 6	Aggregate	Aggregate	Diesel	119.7073324	4803.131778	1532.2539	0.51201054
Los Angeles	2026 T6 Utility Class 7	Aggregate	Aggregate	Diesel	134.8505481	6648.870836	1726.087	0.70373018
Los Angeles	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	7164.42061	1452147.735	164638.39	227.114559
Los Angeles	2026 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	6469.640099	1758708.031	148672.33	264.70955
Los Angeles	2026 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	2759.1369	638605.6948	63404.966	99.0488045
Los Angeles	2026 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.467440829	114.8389514	24.007332	0.02062566
Los Angeles	2026 T7 POLA Class 8	Aggregate	Aggregate	Diesel	9748.08525	1223613.077	159478.67	204.546284
Los Angeles	2026 T7 Public Class 8	Aggregate	Aggregate	Diesel	3464.555029	138989.6266	17773.167	24.0403104
Los Angeles	2026 T7 Single Concrete/	Aggregate	Aggregate	Diesel	740.3115566	50186.22349	6973.7349	8.0925253
Los Angeles	2026 T7 Single Dump Cla	Aggregate	Aggregate	Diesel	2205.733424	121844.1282	20778.009	20.1525272
Los Angeles	2026 T7 Single Other Cla:	Aggregate	Aggregate	Diesel	6771.598521	353090.2917	63788.458	57.9041627
Los Angeles	2026 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	932.3017304	60438.46505	4288.588	23.0528395
Los Angeles	2026 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	16040.13921	1144773.551	233063.22	183.332634
Los Angeles	2026 T7 Utility Class 8	Aggregate	Aggregate	Diesel	476.5394965	20591.8263	6099.7056	3.31096267
Los Angeles	2026 UBUS	Aggregate	Aggregate	Diesel	35.57256882	5942.457129	142.29028	0.92576695
Los Angeles	2026 LDA	Aggregate	Aggregate	Gasoli	3294447.498	129517421.6	15284837	4284.20819
Los Angeles	2026 LDT1	Aggregate	Aggregate	Gasoli	309046.7436	11251577.56	1361991.8	447.25663
Los Angeles	2026 LDT2	Aggregate	Aggregate	Gasoli	1657464.48	68121909.84	7802413.8	2727.36541
Los Angeles	2026 LHD1	Aggregate	Aggregate	Gasoli	126346.3684	5055907.749	1882372.6	358.037346
Los Angeles	2026 LHD2	Aggregate	Aggregate	Gasoli	19134.01081	715698.1352	285068.25	58.2571282
Los Angeles	2026 MCY	Aggregate	Aggregate	Gasoli	157749.9446	1027979.189	315499.89	24.7771202
Los Angeles	2026 MDV	Aggregate	Aggregate	Gasoli	983860.2365	37575422.26	4569222.5	1849.07572
Los Angeles	2026 MH	Aggregate	Aggregate	Gasoli	15047.24922	152784.2483	1505.3268	31.5365887
Los Angeles	2026 OBUS	Aggregate	Aggregate	Gasoli	3514.032099	134349.5692	70308.754	26.1697175
Los Angeles	2026 SBUS	Aggregate	Aggregate	Gasoli	1491.018675	68409.30414	5964.0747	7.54119207
Los Angeles	2026 T6TS	Aggregate	Aggregate	Gasoli	14163.44321	775953.526	283382.17	147.173934
Los Angeles	2026 T7IS	Aggregate	Aggregate	Gasoli	31.764346	2555.60335	635.54103	0.59989912
Los Angeles	2026 UBUS	Aggregate	Aggregate	Gasoli	435.2433216	30711.79502	1740.9733	6.64548497

	VMT Sum	Fuel Sum	Fuel Sum/Year
Diesel	14920273.88	1702.474706	621,403,268
Gas	254430680.4	9968.644354	3,638,555,189
			4,259,958,457