

Appendix G Energy Data Sheet

Appendices

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Energy Calculations

Proposed Project Construction-Related Fuel/Energy Usage

CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	27,885	1,137	40	1	547	200
2024	48,642	1,941	68	2	1,147	419
2025	15,818	618	22	1	440	161
2026	11,542	442	15	0	357	130
2028	30,349	1,119	38	1	1,137	416
2029	50,963	1,849	62	2	2,089	764
2030	10,861	388	13	0	485	177
Total	196,060	7,494	257	8	6,203	2,266

CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	992	195	6,687	954
2024	1,210	235	8,388	1,185
2025	646	124	4,605	643
2026	283	54	2,072	286
2028	907	169	6,993	944
2029	1,115	206	8,816	1,176
2030	189	35	1,612	214
Total	5,343	1,017	39,173	5,402

CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	2	0	3,864	646
2025	1	0	2,823	459
2028	1	0	2,884	449
Total	4	1	9,571	1,555

CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2023	0	11,283
2024	0	23,016
2025	0	12,413
2026	0	21,803
2028	0	12,100
2029	0	22,911
2030	0	5,089
Total	0	108,614

CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	28,878	1,332	10,591	12,884	547	200
2024	49,853	2,175	8,456	24,203	1,147	419
2025	16,465	742	7,449	13,516	440	161
2026	11,825	496	2,088	22,090	357	130
2028	31,257	1,289	9,915	13,494	1,137	416
2029	52,079	2,055	8,877	24,088	2,089	764
2030	11,050	423	1,625	5,303	485	177
Total	201,406	8,511	49,000	115,578	6,203	2,266

Construction-Related Fuel/Energy Usage (Phase 1 Construction)

CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	27,885	1,137	40	1	547	200
2024	48,642	1,941	68	2	1,147	419
Total	76,527	3,077	108	3	1,694	618

CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	992	195	6,687	954
2024	1,210	235	8,388	1,185
Total	2,202	430	15,074	2,139

CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	2	0	3,864	646
2024	0	0	0	0
Total	2	0	3,864	646

CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2023	0	11,283
2024	0	23,016
Total	0	34,299

CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	28,878	1,332	10,591	12,884	547	200
2024	49,853	2,175	8,456	24,203	1,147	419
Total	78,731	3,508	19,047	37,087	1,694	618

Construction Worker Trips Fuel Usage Worksheet

Note: Per CalEEMod methodology, worker vehicles are "LD_Mix", which is 50% LDA, 25% LDT1, and 25% LDT2

Activity ¹	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2023				
Phase 1 Building Demolition	13	18.5	34	8,177
Phase 1 Building Demolition Debris Haul	0	18.5	34	0
Phase 1 Asphalt Demolition	0	18.5	34	0
Phase 1 Asphalt Demolition Debris Haul	0	18.5	34	0
Phase 1 Site Preparation	13	18.5	4	962
Phase 1 Rough Grading	10	18.5	7	1,295
Phase 1 Fine Grading	10	18.5	6	1,110
Phase 1 Utility Trenching	3	18.5	5	278
Phase 1 Building Construction 2023	10	18.5	90	16,650
				0
2024				
Phase 1 Building Construction 2023	10	18.5	251	46,435
Phase 1 Paving	8	18.5	17	2,516
Phase 1 Architectural Coating	2	18.5	17	629
Phase 1 Finishing/Landscaping	3	18.5	5	278
				0

¹ Based on information provided.

² Based on CalEEMod defaults.

Year	LDA VMT	LDT1 VMT	LDT2 VMT	Gasoline ²						Diesel ¹				Electricity ³							
				LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh	LDT2 m/kWh	LDT2 kWh		
2023	7,118	14,236	7,118	28.38	235	23.74	598	23.10	304	39.58	0	22.95	0	30.71	1	2.72	162	2.73	16	2.92	21
2024	12,464	24,929	12,464	28.97	398	24.21	1,025	23.75	517	40.08	1	23.02	0	31.45	1	2.71	332	2.76	38	2.90	49

Gasoline		Diesel		Electricity	
VMT	Gallons	VMT	Gallons	VMT	kWh
27,885	1,137	40	1	547	200
48,642	1,941	68	2	1,147	419
76,527	3,077	108	3	1,694	618

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline			VMT from diesel			VMT from electricity		
	LDA	LDT1	LDT2	LDA	LDT1	LDT2	LDA	LDT1	LDT2
2023	93.61%	89.67%	88.80%	0.19%	0.02%	0.32%	6.20%	0.31%	0.88%
2024	92.60%	89.56%	88.54%	0.18%	0.02%	0.33%	7.22%	0.42%	1.13%

Appendix C: Evidence Used to Define the Average Number of KWH Required to Displace a Gallon of Gasoline

Table A 3: Evidence from U.S. Department of Energy and U.S. Environmental Protection Agency's fuel economy website^[32]

Vehicle	Model year	Electric consumption	Gasoline fuel economy	Number of kWh that are equivalent to 1 gallon
Ford Fusion Energi & Ford C-Max Energi	2013	0.34 kWh per mile	43 mpg	14.6
Chevrolet Volt	2013	0.35 kWh per mile	37 mpg	12.9
Chevrolet Volt	2012	0.36 kWh per mile	37 mpg	13.3
Fisker Karma	2012	0.62 kWh per mile	20 mpg	12.4
Toyota Prius	2013	0.29 kWh per mile & 0.2 gal	50 mpg	13.1
Average for five models	-	-	-	13.3 +/- 0.8

0.34 14.6
0.35 12.9
0.36 13.3
0.34 13.3

Year Estimated Electric Consumption

2013	0.34
2014	0.34
2015	0.34
2016	0.34
2017	0.34
2018	0.34
2019	0.34
2020	0.33
2021	0.33
2022	0.33
2023	0.33
2024	0.32
2025	0.32
2026	0.32
2027	0.32
2028	0.31
2029	0.31
2030	0.31
2031	0.31
2032	0.30
2033	0.30
2034	0.30
2035	0.29

Table A 5: Average power consumption per mile traveled over time for different PEV categories

Year range	2012-2020	2020-2030	2030-2040	2040-2050	2050
Efficiency improvement per year	0.3%	0.8%	0.9%	0.9%	
Year	2012	2020	2030	2040	2050
Relative energy efficiency	1.000	0.976	0.901	0.823	0.752

https://www.fhwa.dot.gov/environment/climate_change/mitigation/publications_and_tools/ev_deployment/page08.cfm

Vendor Trips Fuel Usage Worksheet

Note: Based on CalEEMod methodology, vendor vehicles are 50% HHDT (T7) and 50% MHDT (T6).

Activity ¹	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2023				
Phase 1 Building Demolition	8	10.2	34	2,774
Phase 1 Building Demolition Debris Haul	0	10.2	34	0
Phase 1 Asphalt Demolition	0	10.2	34	0
Phase 1 Asphalt Demolition Debris Haul	0	10.2	34	0
Phase 1 Site Preparation	10	10.2	4	408
Phase 1 Rough Grading	10	10.2	7	714
Phase 1 Fine Grading	10	10.2	6	612
Phase 1 Utility Trenching	0	10.2	5	0
Phase 1 Building Construction 2023	4	10.2	90	3,672
2024				
Phase 1 Building Construction 2023	4	10.2	251	10,241
Phase 1 Paving	0	10.2	17	0
Phase 1 Architectural Coating	0	10.2	17	0
Phase 1 Finishing/Landscaping	0	10.2	5	0

¹ Based on information provided.

² Based on CalEEMod defaults.

Year	HHDT (T7) VMT	MHDT (T6) VMT	Gasoline ¹				Diesel ¹			
			HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons
2023	4,090	4,090	3.95	0	5.09	194	5.98	616	8.87	339
2024	5,120	5,120	4.05	1	5.15	234	6.06	760	8.90	425

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline		VMT from diesel	
	HHDT (T7)	MHDT (T6)	HHDT (T7)	MHDT (T6)
2023	0.05%	24.20%	90.06%	73.41%
2024	0.04%	23.60%	89.89%	73.92%

VENDOR

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
991.82	194.78	6,687	954
1,210.43	234.97	8,388	1,185
2,202.25	429.75	15,074	2,139

Truck Haul Trips Fuel Usage Worksheet

Note: Hauling vehicles are HHDT (T7)

Activity	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2023				
Phase 1 Building Demolition Debris Haul	4	20	34	2,720
Phase 1 Asphalt Demolition Debris Haul	2	20	34	1,360

Year	VMT	Gasoline ¹		Diesel ¹	
		HHDT (T7) mpg	HHDT (T7) gallons	HHDT (T7) mpg	HHDT (T7) gallons
2023	4,080	3.95	0	5.98	646

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
2	0	3,864	646
2	0	3,864	646

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline	VMT from diesel
2023	0.05%	94.71%

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2023	0	11,283	0
2024	0	23,016	0
Total	0	34,299	0

Equipment Type ¹	Number of Equipment ²	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	2023		Total Hours of Operation	Total Gasoline		Total Diesel		Total Natural Gas	
					Working days ³	Hours Per Day		Gasoline Gal/Hr ²	gallons	Diesel Gal/Hr ²	gallons	Natural Gas Gal/Hr ²	Total Natural Gas gallons
2023													
Phase 1 Building Demolition													
Tractors/Loaders/Backhoes	1	84	100	Diesel	34	8	272	0.00	0	1.59	433	0.00	0
Forklifts	2	82	100	Diesel	34	8	544	0.00	0	0.98	534	0.00	0
Skid Steer Loaders	2	71	75	Diesel	34	8	544	0.00	0	1.37	747	0.00	0
Phase 1 Site Preparation													
Tractors/Loaders/Backhoes	1	84	100	Diesel	4	8	32	0.00	0	1.59	51	0.00	0
Rollers	1	36	50	Diesel	4	8	32	0.00	0	0.77	25	0.00	0
Tractors/Loaders/Backhoes	3	84	100	Diesel	4	8	96	0.00	0	1.59	153	0.00	0
Phase 1 Rough Grading													
Graders	1	148	175	Diesel	7	8	56	0.00	0	3.16	177	0.00	0
Rubber Tired Dozers	1	367	600	Diesel	7	8	56	0.00	0	7.57	424	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	7	7	98	0.00	0	1.59	156	0.00	0
Phase 1 Fine Grading													
Graders	1	148	175	Diesel	6	8	48	0.00	0	3.16	151	0.00	0
Rubber Tired Dozers	1	367	600	Diesel	6	8	48	0.00	0	7.57	363	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	6	7	84	0.00	0	1.59	134	0.00	0
Phase 1 Utility Trenching													
Excavators	1	36	50	Diesel	5	4	20	0.00	0	0.79	16	0.00	0
Phase 1 Building Construction													
Cranes	1	367	600	Diesel	90	6	540	0.00	0	5.47	2,954	0.00	0
Forklifts	1	82	100	Diesel	90	6	540	0.00	0	0.98	530	0.00	0
Generator Sets	1	14	50	Diesel	90	8	720	0.00	0	3.40	1,006	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	90	6	540	0.00	0	1.59	860	0.00	0
Welders	3	46	50	Diesel	90	8	2,160	0.00	0	1.19	2,568	0.00	0
TOTAL								0	0	11,283	0	0	0
2024													
Phase 1 Building Construction													
Cranes	1	367	600	Diesel	251	6	1,506	0.00	0	5.46	8,224	0.00	0
Forklifts	1	82	100	Diesel	251	6	1,506	0.00	0	0.98	1,478	0.00	0
Generator Sets	1	14	50	Diesel	251	8	2,008	0.00	0	3.40	2,806	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	251	6	1,506	0.00	0	1.59	2,399	0.00	0
Welders	3	46	50	Diesel	251	8	6,024	0.00	0	1.19	7,159	0.00	0
Phase 1 Paving													
Rollers	1	36	50	Diesel	17	8	136	0.00	0	0.77	105	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	17	8	272	0.00	0	1.59	433	0.00	0
Phase 1 Architectural Coating													
Generator Sets	2	14	50	Diesel	17	8	272	0.00	0	1.40	380	0.00	0
Phase 1 Finishing/Landscaping													
Excavators	1	36	50	Diesel	5	8	40	0.00	0	0.79	31	0.00	0
TOTAL								0	0	23,016	0	0	0

¹ Based on information provided.

² OFFROAD2021 v.1.0.1

EMFAC Fuel Usage: Year 2023

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses		0	0.00	82,728	8,978	9.21	19,541	2,271	8.61	0	0	0.00
LDA	135,140,035	4,761,455	28.38	279,606	7,064	39.58	0	0	0.00	8,943,527	3,286,871	2.72
LD1	11,506,129	484,689	23.74	2,650	115	22.95	0	0	0.00	35,577	1,301.9	2.73
LD2	63,471,961	2,747,424	23.10	203,904	6,640	30.71	0	0	0.00	564,075	193,216	2.92
LHD1	4,875,651	371,234	13.13	2,309,885	114,116	20.24	0	0	0.00	0	0	0.00
LHD2	707,424	61,525	11.50	1,017,094	59,769	17.02	0	0	0.00	0	0	0.00
MCY	942,493	23,017	40.95	0	0	0.00	0	0	0.00	0	0	0.00
MDV	35,435,034	1,881,595	18.83	417,109	18,090	23.06	0	0	0.00	435,516	156,136	2.79
MH	150,959	31,219	4.84	54,121	5,435	9.96	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	83,894	15,253	5.50	0	0	0.00	0	0	0.00
OBUS	153,202	30,680	4.99	0	0	0.00	0	0	0.00	0	0	0.00
PTO	0	0	0.00	105,926	21,634	4.90	0	0	0.00	49	101	0.48
SBUS	59,009	6,627	8.90	33,210	4,551	7.30	36,139	8,685	4.16	19	22	0.86
T6	818,409	160,636	5.09	2,482,453	279,926	8.87	40,273	4,978	8.09	586	613	0.96
T7	3,231	818	3.95	6,385,711	1,067,307	5.98	350,605	60,950	5.75	2,510	4,442	0.57
UBUS	31,153	6,805	4.58	1,269	217	5.85	417,623	137,130	3.05	2,416	5,071	0.48
Total	253,294,692	10,567,724	23.97	13,459,561	1,609,097	8.36	864,182	214,013	4.04	9,984,275	3,659,491	2.73

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2023	All Other Buses	Aggregate	Aggregate	Diesel	1475.194739	82728.49796	82728.49796	0	13129.23318	8.978276931	0
Los Angeles (SC)	2023	All Other Buses	Aggregate	Aggregate	Natural Gas	319.8885181	19541.02621	19541.02621	0	2847.007811	2.270823151	0
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	Gasoline	3363325.814	133132108	133132108	0	15650234.76	4688.007701	0
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	Diesel	9465.936918	279606.0153	279606.0153	0	38923.81519	7.064261604	0
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	Electricity	149786.3595	6967760.765	0	6967760.765	750975.1138	0	2690130.736
Los Angeles (SC)	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	84855.72006	3983693.819	2007927.363	1975766.456	350878.4521	73.44775691	596740.3568
Los Angeles (SC)	2023	LD1	Aggregate	Aggregate	Gasoline	316618.4734	11498860.94	11498860.94	0	1394223.797	484.4224711	0
Los Angeles (SC)	2023	LD1	Aggregate	Aggregate	Diesel	130.6972397	2649.862279	2649.862279	0	380.5267117	0.115446626	0
Los Angeles (SC)	2023	LD1	Aggregate	Aggregate	Electricity	737.9430578	27045.91094	3402.440206	27045.91094	3402.440206	0	10441.95384
Los Angeles (SC)	2023	LD1	Aggregate	Aggregate	Plug-in Hybrid	305.3619056	15799.36792	7268.198583	8531.16934	1262.67148	0.66805952	2576.66741
Los Angeles (SC)	2023	LD2	Aggregate	Aggregate	Gasoline	1534013.272	63204640.7	63204640.7	0	7216719.715	2737.584197	0
Los Angeles (SC)	2023	LD2	Aggregate	Aggregate	Diesel	4672.025415	203904.1794	203904.1794	0	22591.39192	6.6400753	0
Los Angeles (SC)	2023	LD2	Aggregate	Aggregate	Electricity	7316.504913	271839.3938	0	271839.3938	37572.13556	0	104952.4421
Los Angeles (SC)	2023	LD2	Aggregate	Aggregate	Plug-in Hybrid	11176.08817	559555.6037	267320.0773	292235.5263	46213.1246	9.840078762	88263.83897
Los Angeles (SC)	2023	LHD1	Aggregate	Aggregate	Gasoline	123582.2629	4875651.462	4875651.462	0	184191.58	371.233764	0
Los Angeles (SC)	2023	LHD1	Aggregate	Aggregate	Diesel	52370.85258	2309885.271	2309885.271	0	658759.4429	114.1155095	0
Los Angeles (SC)	2023	LHD2	Aggregate	Aggregate	Gasoline	18992.20879	707424.2091	707424.2091	0	282955.6126	61.52516871	0
Los Angeles (SC)	2023	LHD2	Aggregate	Aggregate	Diesel	23383.97043	1017094.138	1017094.138	0	294140.931	59.67930672	0
Los Angeles (SC)	2023	MCY	Aggregate	Aggregate	Gasoline	143314.4155	942493.4885	942493.4885	0	286288.8309	23.0171675	0
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	Gasoline	930000.0312	35296866.04	35296866.04	0	4305992.452	1876.436347	0
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	Diesel	10587.09868	417108.5847	417108.5847	0	50133.20648	18.0942921	0
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	Electricity	7870.579333	292645.8028	0	292645.8028	40427.05271	0	112985.4333
Los Angeles (SC)	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	6232.488765	281038.1518	138168.2151	142869.9367	25771.34105	5.15879783	43150.9791
Los Angeles (SC)	2023	MH	Aggregate	Aggregate	Gasoline	15543.05122	150599.242	150599.242	0	1554.926844	31.21883005	0
Los Angeles (SC)	2023	MH	Aggregate	Aggregate	Diesel	5175.528798	54121.46359	54121.46359	0	517.5528798	5.43523898	0
Los Angeles (SC)	2023	Motor Coach	Aggregate	Aggregate	Diesel	588.8354422	83893.72533	83893.72533	0	13531.43486	15.25330866	0
Los Angeles (SC)	2023	OBUS	Aggregate	Aggregate	Gasoline	3808.788003	153201.689	153201.689	0	76206.23037	30.6795829	0
Los Angeles (SC)	2023	PTO	Aggregate	Aggregate	Diesel	0	105925.7735	105925.7735	0	0	21.63440519	0
Los Angeles (SC)	2023	PTO	Aggregate	Aggregate	Electricity	0	48.8251688	0	48.8251688	0	0	101.1422535
Los Angeles (SC)	2023	SBUS	Aggregate	Aggregate	Gasoline	1333.830023	59008.65529	59008.65529	0	5335.320093	6.62652175	0
Los Angeles (SC)	2023	SBUS	Aggregate	Aggregate	Diesel	1641.865076	33210.41415	33210.41415	0	27374.2063	4.550703273	0
Los Angeles (SC)	2023	SBUS	Aggregate	Aggregate	Electricity	1.644084418	19.09632517	0	19.09632517	23.80634238	0	22.08110642
Los Angeles (SC)	2023	SBUS	Aggregate	Aggregate	Natural Gas	1447.068317	36139.19841	36139.19841	0	20953.54924	8.685035105	0
Los Angeles (SC)	2023	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	26.65154111	1790.703118	1790.703118	0	612.4524418	0.196586528	0
Los Angeles (SC)	2023	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.033161573	1.223583518	0	1.223583518	0.76205295	0	1.282388103
Los Angeles (SC)	2023	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	35.75830225	2456.776702	2456.776702	0	821.7257857	0.269374438	0
Los Angeles (SC)	2023	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.037301746	1.424502151	0	1.424502151	0.857194116	0	1.492962747
Los Angeles (SC)	2023	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	112.9342461	6415.644096	6415.644096	0	2595.228976	0.693277012	0
Los Angeles (SC)	2023	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	0.261949426	7.705978424	6.01959799	7.705978424	6.01959799	0	8.07632246
Los Angeles (SC)	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	194.6886565	40229.91644	40229.91644	0	4473.945327	4.09381301	0
Los Angeles (SC)	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	0.215824961	22.56156156	0	22.56156156	4.959657609	0	23.64585473
Los Angeles (SC)	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.191111078	38.02037272	38.02037272	0	4.391732566	0.003937761	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3774.976897	127730.108	127730.108	0	53868.92032	14.476886219	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	2.446208079	44.76302906	0	44.76302906	34.9078928	0	46.76886219
Los Angeles (SC)	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	13.27297117	471.347353	471.347353	0	189.4052986	0.05990266	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	3826.469277	132608.0345	132608.0345	0	54603.71659	15.09669253	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	1.865894219	34.01962767	0	34.01962767	26.62631051	0	35.54404855
Los Angeles (SC)	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	10.58451437	376.0415507	376.0415507	0	151.0410201	0.04374435	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	11772.40959	405510.7394	405510.7394	0	167992.2849	45.97419937	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	7.51666475	137.1273199	0	137.1273199	107.262806	0	134.2720006
Los Angeles (SC)	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	35.36133975	1241.582046	1241.582046	0	504.6063182	0.156845307	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	2931.591762	161949.4146	161949.4146	0	41833.81444	17.9017285	0
Los Angeles (SC)	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	0.93840441	20.21344545	0	20.21344545	13.39103093	0	21.11921075
Los Angeles (SC)	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	86.03903782	4781.035313	4781.035313	0	1227.77707	0.58420098	0
Los Angeles (SC)	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	4707.887806	194317.3213	194317.3213	0	54423.18304	22.0358212	0
Los Angeles (SC)	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	0.73972177	15.39192516	0	15.39192516	8.551188639	0	16.0837245
Los Angeles (SC)	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	14.4899031	638.637223	638.637223	0	167.5032799	0.080622677	0
Los Angeles (SC)	2023	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	10314.00608	453243.291	453243.291	0	119229.9103	51.54124645	0
Los Angeles (SC)	2											

Los Angeles (SC)	2023 T6 Utility Class 5	Aggregate	Aggregate	Diesel	640.1812675	26023.60966	26023.60966	0	8194.320224	2.813014437	0
Los Angeles (SC)	2023 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	3.880549317	155.7462229	155.7462229	0	49.67103125	0.018355797	0
Los Angeles (SC)	2023 T6 Utility Class 6	Aggregate	Aggregate	Diesel	121.1336603	4889.490714	4889.490714	0	1550.510851	0.52626879	0
Los Angeles (SC)	2023 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	1.46334689	57.87760757	57.87760757	0	18.7308402	0.00679256	0
Los Angeles (SC)	2023 T6 Utility Class 7	Aggregate	Aggregate	Diesel	138.1520634	6789.727125	6789.727125	0	1768.346412	0.728764721	0
Los Angeles (SC)	2023 T6 Utility Class 7	Aggregate	Aggregate	Electricity	0.217899452	6.218835044	0	6.218835044	2.789112986	0	6.508795997
Los Angeles (SC)	2023 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	1.966822801	87.48677629	87.48677629	0	25.17533185	0.010141222	0
Los Angeles (SC)	2023 T6T5	Aggregate	Aggregate	Gasoline	15094.86549	818409.0416	818409.0416	0	302018.0688	160.6355235	0
Los Angeles (SC)	2023 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6435.828117	1323608.7	1323608.7	0	147895.3301	216.3914574	0
Los Angeles (SC)	2023 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	14.53463948	1531.582599	0	1531.582599	334.0060152	0	2712.073822
Los Angeles (SC)	2023 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	27.63052145	5633.680626	5633.680626	0	634.949383	1.03243525	0
Los Angeles (SC)	2023 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	5773.529562	1572770.608	1572770.608	0	132675.7093	254.4510404	0
Los Angeles (SC)	2023 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	2417.432288	571074.6236	571074.6236	0	55552.59399	93.53136811	0
Los Angeles (SC)	2023 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.163143668	108.5424559	108.5424559	0	19.0290304	0.019311768	0
Los Angeles (SC)	2023 T7 POLA Class 8	Aggregate	Aggregate	Diesel	8313.558238	1084548.738	1084548.738	0	136009.8128	181.1303929	0
Los Angeles (SC)	2023 T7 POLA Class 8	Aggregate	Aggregate	Electricity	3.12794898	170.7967038	0	170.7967038	51.17301494	0	302.0216528
Los Angeles (SC)	2023 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	104.2847166	13464.97476	13464.97476	0	1706.097964	2.441309708	0
Los Angeles (SC)	2023 T7 Public Class 8	Aggregate	Aggregate	Diesel	3741.056562	149663.9061	149663.9061	0	19191.62016	26.30419602	0
Los Angeles (SC)	2023 T7 Public Class 8	Aggregate	Aggregate	Electricity	1.668389431	47.86777059	0	47.86777059	8.558837782	0	84.637816
Los Angeles (SC)	2023 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1171.95601	58685.39317	58685.39317	0	6012.134329	10.9490464	0
Los Angeles (SC)	2023 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	704.453817	48752.06151	48752.06151	0	6635.954956	8.120377548	0
Los Angeles (SC)	2023 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	1.001087833	38.08470649	0	38.08470649	9.430247389	0	67.21755441
Los Angeles (SC)	2023 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	65.8062684	4808.107512	4808.107512	0	619.8950483	0.847905659	0
Los Angeles (SC)	2023 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1911.450598	113250.6944	113250.6944	0	18005.86463	18.94944797	0
Los Angeles (SC)	2023 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	0.247062018	9.340586715	0	9.340586715	2.327324209	0	16.48565667
Los Angeles (SC)	2023 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	122.3673668	7866.104109	7866.104109	0	1152.700595	1.456328892	0
Los Angeles (SC)	2023 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	5784.080897	333857.5575	333857.5575	0	54486.10988	55.53194181	0
Los Angeles (SC)	2023 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	6.077680923	198.4680162	0	198.4680162	57.2517543	0	350.2858734
Los Angeles (SC)	2023 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	407.8227126	24928.84292	24928.84292	0	3841.689952	4.443684618	0
Los Angeles (SC)	2023 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	1297.387966	84243.13249	84243.13249	0	5967.984645	32.37980749	0
Los Angeles (SC)	2023 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	1.953624666	52.85602879	0	52.85602879	8.986673466	0	93.16567108
Los Angeles (SC)	2023 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3075.004889	198827.1073	198827.1073	0	14145.02249	33.98816564	0
Los Angeles (SC)	2023 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	13527.62233	1083164.637	1083164.637	0	196556.3525	177.142381	0
Los Angeles (SC)	2023 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	10.90088667	457.1278569	0	457.1278569	158.3898834	0	809.5023946
Los Angeles (SC)	2023 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	440.9972137	36390.67059	36390.67059	0	6407.689516	6.644899225	0
Los Angeles (SC)	2023 T7 Utility Class 8	Aggregate	Aggregate	Diesel	449.6908764	20667.97054	20667.97054	0	5756.043217	3.355504004	0
Los Angeles (SC)	2023 T7 Utility Class 8	Aggregate	Aggregate	Electricity	0.125388186	3.572630519	0	3.572630519	1.604968777	0	6.316977807
Los Angeles (SC)	2023 T7I5	Aggregate	Aggregate	Gasoline	52.44057302	3231.284725	3231.284725	0	1049.230985	0.817685124	0
Los Angeles (SC)	2023 UBUS	Aggregate	Aggregate	Gasoline	438.7257597	31153.4128	31153.4128	0	1754.903039	6.805144169	0
Los Angeles (SC)	2023 UBUS	Aggregate	Aggregate	Diesel	9.742965344	1269.074735	1269.074735	0	38.97186138	0.216797099	0
Los Angeles (SC)	2023 UBUS	Aggregate	Aggregate	Electricity	53.5307883	2415.769471	0	2415.769471	214.1231532	0	5070.782408
Los Angeles (SC)	2023 UBUS	Aggregate	Aggregate	Natural Gas	3880.598718	417623.3217	417623.3217	0	15522.39487	137.1303086	0

EMFAC Fuel Usage: Year 2024

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0.00	0.00	82,649	8,956	9.23	19,780	2,296	8.61	0	0	0.00
LDA	132,943,874	4,589,085	28.97	256,968	6,411	40.08	0	0	0.00	10,370,306	3,821,062	2.71
LD1	11,368,732	469,530	24.21	2,369	103	23.02	0	0	0.00	48,357	17,544	2.76
LD2	65,010,643	2,737,115	23.75	21,829	6,831	31.45	0	0	0.00	747,230	258,069	2.90
LHD1	4,934,814	365,123	13.52	2,469,363	120,836	20.44	0	0	0.00	38,630	21,582	1.79
LHD2	709,989	60,210	11.79	1,093,296	63,450	17.23	0	0	0.00	9,473	5,297	1.79
MCY	969,261	23,520	41.21	0	0	0.00	0	0	0.00	0	0	0.00
MDV	36,066,679	1,863,891	19.35	423,747	18,006	23.53	0	0	0.00	608,305	219,037	2.78
MH	149,210	30,842	4.84	56,471	5,669	9.96	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	84,180	15,237	5.52	0	0	0.00	0	0	0.00
OBUS	145,453	28,904	5.03	0	0	0.00	0	0	0.00	590	621	0.95
PTO	0	0	0.00	106,989	21,590	4.96	0	0	0.00	576	1,194	0.48
SBUS	60,689	6,780	8.95	32,041	4,380	7.32	37,157	8,875	4.19	360	417	0.86
T6	800,329	155,286	5.15	2,506,988	281,725	8.90	42,058	5,177	8.12	11,119	11,626	0.96
T7	2,951	729	4.05	6,498,334	1,072,592	6.06	363,945	62,220	5.85	15,932	28,189	0.57
UBUS	30,984	6,754	4.59	1,242	213	5.82	412,994	134,625	3.07	8,157	17,142	0.48
Total	253,193,608	10,337,769	24.49	13,829,466	1,626,001	8.51	875,934	213,194	4.11	11,859,036	4,401,780	2.69

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2024

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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2024	All Other Buses	Aggregate	Aggregate	Diesel	1494.008885	82649.42606	82649.42606	0	13296.67908	8.956185539	0
Los Angeles (SC)	2024	All Other Buses	Aggregate	Aggregate	Natural Gas	328.2793362	19780.16427	19780.16427	0	2921.686092	2.296077049	0
Los Angeles (SC)	2024	LDA	Aggregate	Aggregate	Gasoline	3312060.357	130838318.3	130838318.3	0	15395682	4512.231245	0
Los Angeles (SC)	2024	LDA	Aggregate	Aggregate	Diesel	8789.19002	256968.192	256968.192	0	36035.14021	6.416262651	0
Los Angeles (SC)	2024	LDA	Aggregate	Aggregate	Electricity	171677.6521	8196290.291	8196290.291	8196290.291	857942.877	0	316444.529
Los Angeles (SC)	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	91933.05913	4279571.308	2105555.618	2174015.69	380143.2408	76.85384871	656617.5343
Los Angeles (SC)	2024	LD1	Aggregate	Aggregate	Gasoline	311828.9204	11357946.66	11357946.66	0	1373845.457	469.1348945	0
Los Angeles (SC)	2024	LD1	Aggregate	Aggregate	Diesel	118.5293676	2368.568506	2368.568506	0	338.8223403	0.102906474	0
Los Angeles (SC)	2024	LD1	Aggregate	Aggregate	Electricity	868.5158405	34958.66479	34958.66479	34958.66479	4075.933908	0	13496.9299
Los Angeles (SC)	2024	LD1	Aggregate	Aggregate	Plug-in Hybrid	472.0350753	24183.9963	10785.2145	13398.78179	1951.865036	0.39509337	4046.83145
Los Angeles (SC)	2024	LD2	Aggregate	Aggregate	Gasoline	1566130.15	64695889.13	64695889.13	0	7373137.581	2725.55071	0
Los Angeles (SC)	2024	LD2	Aggregate	Aggregate	Diesel	4948.489318	214828.9903	214828.9903	0	23893.23295	6.830852294	0
Los Angeles (SC)	2024	LD2	Aggregate	Aggregate	Electricity	10499.25109	385269.4446	385269.4446	385269.4446	53700.22067	0	148745.8036
Los Angeles (SC)	2024	LD2	Aggregate	Aggregate	Plug-in Hybrid	13716.62465	676714.4758	314753.7387	361960.7371	56718.24293	11.56440192	109322.9308
Los Angeles (SC)	2024	LHD1	Aggregate	Aggregate	Gasoline	123836.5988	4934814.469	4934814.469	0	1844980.806	365.1227387	0
Los Angeles (SC)	2024	LHD1	Aggregate	Aggregate	Diesel	55652.48261	2469363.403	2469363.403	0	70038.32204	120.8363633	0
Los Angeles (SC)	2024	LHD1	Aggregate	Aggregate	Electricity	510.884395	38629.84069	38629.84069	38629.84069	7316.731466	0	21582.07468
Los Angeles (SC)	2024	LHD2	Aggregate	Aggregate	Gasoline	18962.98073	709989.1461	709989.1461	0	282520.1581	60.2102533	0
Los Angeles (SC)	2024	LHD2	Aggregate	Aggregate	Diesel	25083.1257	1093295.739	1093295.739	0	315514.1668	63.45047175	0
Los Angeles (SC)	2024	LHD2	Aggregate	Aggregate	Electricity	132.2328573	9473.403689	9473.403689	9473.403689	1750.362491	0	5296.526189
Los Angeles (SC)	2024	MCY	Aggregate	Aggregate	Gasoline	146992.0035	969260.7434	969260.7434	0	239984.007	23.52049888	0
Los Angeles (SC)	2024	MDV	Aggregate	Aggregate	Gasoline	941104.6897	35897503.31	35897503.31	0	4364748.435	1857.587206	0
Los Angeles (SC)	2024	MDV	Aggregate	Aggregate	Diesel	10836.3418	423746.7965	423746.7965	0	51125.4825	18.0057922	0
Los Angeles (SC)	2024	MDV	Aggregate	Aggregate	Electricity	11444.7591	420107.4512	420107.4512	420107.4512	58543.45266	0	162196.1495
Los Angeles (SC)	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	7947.75957	357372.4851	169175.235	188197.2501	32863.95852	6.303941889	56841.1787
Los Angeles (SC)	2024	MH	Aggregate	Aggregate	Gasoline	15037.72111	149209.683	149209.683	0	1504.37362	30.84240042	0
Los Angeles (SC)	2024	MH	Aggregate	Aggregate	Diesel	5352.033135	56471.37694	56471.37694	0	535.2033135	5.669099008	0
Los Angeles (SC)	2024	Motor Coach	Aggregate	Aggregate	Diesel	603.3495249	84180.00934	84180.00934	0	13864.97208	15.23749735	0
Los Angeles (SC)	2024	OBUS	Aggregate	Aggregate	Gasoline	3692.490323	145452.6476	145452.6476	0	73879.24639	28.9039628	0
Los Angeles (SC)	2024	OBUS	Aggregate	Aggregate	Electricity	7.843994974	589.8873145	589.8873145	589.8873145	156.9426514	0	621.303287
Los Angeles (SC)	2024	PTO	Aggregate	Aggregate	Diesel	0	106989.0306	106989.0306	0	21.59008713	0	0
Los Angeles (SC)	2024	PTO	Aggregate	Aggregate	Electricity	0	576.443065	576.443065	576.443065	0	1194.112628	0
Los Angeles (SC)	2024	SBUS	Aggregate	Aggregate	Gasoline	1372.011029	60689.4237	60689.4237	0	5488.044118	6.779512867	0
Los Angeles (SC)	2024	SBUS	Aggregate	Aggregate	Diesel	1597.022329	32040.99119	32040.99119	0	23124.88332	4.380138125	0
Los Angeles (SC)	2024	SBUS	Aggregate	Aggregate	Electricity	11.68207238	360.2140355	360.2140355	360.2140355	124.0753948	0	416.5159728
Los Angeles (SC)	2024	SBUS	Aggregate	Aggregate	Natural Gas	1503.388379	37156.55788	37156.55788	0	21769.06373	8.874951572	0
Los Angeles (SC)	2024	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	27.17226079	1806.665752	1806.665752	0	624.4185529	0.196602322	0
Los Angeles (SC)	2024	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.14366431	10.66674379	10.66674379	10.66674379	3.301405847	0	11.7907044
Los Angeles (SC)	2024	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	36.24086235	2480.270902	2480.270902	0	832.8150168	0.269893474	0
Los Angeles (SC)	2024	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.164433645	12.78248183	12.78248183	12.78248183	3.778685158	0	13.39642797
Los Angeles (SC)	2024	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	118.6421665	6460.456664	6460.456664	0	2726.396887	0.691881846	0
Los Angeles (SC)	2024	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	0.971819898	53.96315568	53.96315568	53.96315568	22.33242125	0	56.55502096
Los Angeles (SC)	2024	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	199.7356512	40672.95697	40672.95697	0	4589.925265	4.083630133	0
Los Angeles (SC)	2024	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	0.788858739	152.2856559	152.2856559	152.2856559	18.12797382	0	15.9599978
Los Angeles (SC)	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	0.186585888	36.4912283	36.4912283	0	4.287743695	0.003753188	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3823.548745	129079.2126	129079.2126	0	54562.04058	14.5624673	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	11.86618666	469.3094954	469.3094954	469.3094954	169.3304836	0	490.4297642
Los Angeles (SC)	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	14.47125209	515.9610033	515.9610033	0	206.5047417	0.06493567	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3906.603095	134105.4367	134105.4367	0	55747.22616	15.22379017	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	9.655650828	384.1387139	384.1387139	384.1387139	137.7663373	0	401.4260541
Los Angeles (SC)	2024	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	11.53931016	414.4402587	414.4402587	0	165.5049021	0.051700934	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	11998.31093	140119.7749	140119.7749	0	171215.8969	46.36584884	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	30.28997525	1178.769633	1178.769633	1178.769633	542.3279084	0	1231.817636
Los Angeles (SC)	2024	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	38.43981767	1359.750409	1359.750409	0	458.5361982	0.170153704	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	2969.381492	164153.969	164153.969	0	42373.07389	18.11207959	0
Los Angeles (SC)	2024	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	3.090434242	140.8306313	140.8306313	140.8306313	44.10049663	0	147.1684123
Los Angeles (SC)	2024	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	86.69229162	4820.041331	4820.041331	0	1237.099001	0.586946859	

Los Angeles (SC)	2024 T6 Utility Class 6	Aggregate	Aggregate	Electricity	0.877535413	38.17733301	0	38.17733301	11.23245329	0	39.95590293
Los Angeles (SC)	2024 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	1.360896921	53.42264259	53.42264259	0	17.41948058	0.006242733	0
Los Angeles (SC)	2024 T6 Utility Class 7	Aggregate	Aggregate	Diesel	137.2275666	6752.280494	6752.280494	0	1756.512852	0.721495557	0
Los Angeles (SC)	2024 T6 Utility Class 7	Aggregate	Aggregate	Electricity	1.055551115	62.57986954	0	62.57986954	13.51105427	0	65.49528203
Los Angeles (SC)	2024 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	1.808156067	79.34591158	79.34591158	0	23.14439765	0.009160351	0
Los Angeles (SC)	2024 T6T5	Aggregate	Aggregate	Gasoline	14716.96009	800329.4685	800329.4685	0	294456.9375	155.2858895	0
Los Angeles (SC)	2024 T6T5	Aggregate	Aggregate	Electricity	42.32173447	4079.442343	0	4079.442343	846.7732634	0	4267.022151
Los Angeles (SC)	2024 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6580.463748	1342332.453	1342332.453	0	151219.0569	216.5728009	0
Los Angeles (SC)	2024 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	41.59925316	7459.668707	0	7459.668707	955.9508377	0	13210.33359
Los Angeles (SC)	2024 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	27.6842827	5589.242041	5589.242041	0	636.1848165	1.01497233	0
Los Angeles (SC)	2024 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	5898.963819	1601852.779	1601852.779	0	139558.1886	253.6436853	0
Los Angeles (SC)	2024 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	2485.578993	581634.3901	581634.3901	0	57118.60525	93.70635186	0
Los Angeles (SC)	2024 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.384121207	111.3397036	111.3397036	0	22.64422295	0.019962424	0
Los Angeles (SC)	2024 T7 POLA Class 8	Aggregate	Aggregate	Diesel	9003.717176	1129666.259	1129666.259	0	147300.813	189.117602	0
Los Angeles (SC)	2024 T7 POLA Class 8	Aggregate	Aggregate	Electricity	10.61404255	1016.703127	0	1016.703127	173.6457361	0	1798.007397
Los Angeles (SC)	2024 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	105.471054	13098.16854	13098.16854	0	1725.506444	2.343829284	0
Los Angeles (SC)	2024 T7 Public Class 8	Aggregate	Aggregate	Diesel	3639.507197	145760.2644	145760.2644	0	18670.67192	25.47060707	0
Los Angeles (SC)	2024 T7 Public Class 8	Aggregate	Aggregate	Electricity	14.83006925	936.888865	0	936.888865	76.07825277	0	1656.835553
Los Angeles (SC)	2024 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1260.216561	62026.18458	62026.18458	0	6464.910599	10.55850981	0
Los Angeles (SC)	2024 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	711.8530193	48780.43873	48780.43873	0	6705.655442	8.041141344	0
Los Angeles (SC)	2024 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	6.431998958	492.544665	0	492.544665	60.58943019	0	869.5017123
Los Angeles (SC)	2024 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	66.42509878	4746.744525	4746.744525	0	625.7244305	0.826787223	0
Los Angeles (SC)	2024 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1959.335662	113611.78	113611.78	0	18456.94193	18.98631556	0
Los Angeles (SC)	2024 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	5.128758113	402.7887311	0	402.7887311	48.31290142	0	711.0532633
Los Angeles (SC)	2024 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	128.3544313	8064.055468	8064.055468	0	1209.098743	1.480455538	0
Los Angeles (SC)	2024 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	6073.331897	337994.4051	337994.4051	0	57210.78647	55.97860018	0
Los Angeles (SC)	2024 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	30.38321942	2007.749101	0	2007.749101	286.2099269	0	3544.330911
Los Angeles (SC)	2024 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	436.3065354	25620.71958	25620.71958	0	4110.007563	4.529541981	0
Los Angeles (SC)	2024 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	1155.533753	75005.43134	75005.43134	0	5315.655262	28.72687783	0
Los Angeles (SC)	2024 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	10.72528293	625.5822708	0	625.5822708	49.33630146	0	1103.034459
Los Angeles (SC)	2024 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3213.374932	207935.2096	207935.2096	0	14781.52469	34.74770236	0
Los Angeles (SC)	2024 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	14354.45711	1100935.197	1100935.197	0	208570.2618	178.9848869	0
Los Angeles (SC)	2024 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	38.70360986	2922.919973	0	2922.919973	562.3634513	0	5176.318651
Los Angeles (SC)	2024 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	469.170925	36864.51811	36864.51811	0	6817.05534	6.718077057	0
Los Angeles (SC)	2024 T7 Utility Class 8	Aggregate	Aggregate	Diesel	459.7397329	20648.82944	20648.82944	0	5884.668581	3.343358698	0
Los Angeles (SC)	2024 T7 Utility Class 8	Aggregate	Aggregate	Electricity	0.87168106	55.06760327	0	55.06760327	11.15751756	0	97.38397616
Los Angeles (SC)	2024 T7T5	Aggregate	Aggregate	Gasoline	43.66381395	2950.780026	2950.780026	0	873.6255896	0.728709358	0
Los Angeles (SC)	2024 T7T5	Aggregate	Aggregate	Electricity	0.039751842	12.44159821	0	12.44159821	0.795354861	0	21.93280091
Los Angeles (SC)	2024 UBUS	Aggregate	Aggregate	Gasoline	437.5652487	30984.43511	30984.43511	0	1750.260995	6.753553835	0
Los Angeles (SC)	2024 UBUS	Aggregate	Aggregate	Diesel	9.455980331	1241.732151	1241.732151	0	37.83952132	0.213406841	0
Los Angeles (SC)	2024 UBUS	Aggregate	Aggregate	Electricity	97.83776932	8157.187193	0	8157.187193	391.3510773	0	17142.31098
Los Angeles (SC)	2024 UBUS	Aggregate	Aggregate	Natural Gas	3846.599176	412993.5131	412993.5131	0	15386.3967	134.6254729	0

OFFROAD 2024

Equipment Type		Horsepower		Gas				Diesel				Natural Gas			
Model	HP	Pop (2023)	Pop (2024)	Pop (2023)	Pop (2024)	Pop (2023)	Pop (2024)	Pop (2023)	Pop (2024)	Pop (2023)	Pop (2024)	Pop (2023)	Pop (2024)	Pop (2023)	Pop (2024)
Air Compressor25	Air Compressor	25	147999.1199	192.11622131	0	0	0	0	0	0	0	0	0	0	0
Air Compressor45	Air Compressor	50	139991.1	119.184	0	0	0	0	0	0	0	0	0	0	0
Air Compressor75	Air Compressor	75	100	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor100	Air Compressor	100	1045028	888.9	187029.65	176615897	0	0	0	0	0	0	0	0	0
Air Compressor150	Air Compressor	150	86215.35	26.10	1268.85	64899154	0	0	0	0	0	0	0	0	0
Air Compressor200	Air Compressor	200	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor250	Air Compressor	250	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor300	Air Compressor	300	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor350	Air Compressor	350	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor400	Air Compressor	400	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor450	Air Compressor	450	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor500	Air Compressor	500	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor550	Air Compressor	550	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor600	Air Compressor	600	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor650	Air Compressor	650	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor700	Air Compressor	700	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor750	Air Compressor	750	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor800	Air Compressor	800	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor850	Air Compressor	850	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor900	Air Compressor	900	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor950	Air Compressor	950	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor1000	Air Compressor	1000	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift25	Aerial Lift	25	23282.0282	434.28724	0	0	0	382.453141	275.953007	0	0	0	0	0	0
Aerial Lift50	Aerial Lift	50	207317.1	365.12	130717.25	15511585	3002712428	1186.848134	3679330482	881790392	0	0	0	0	0
Aerial Lift75	Aerial Lift	75	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift100	Aerial Lift	100	133181.15	360.32	130077.25	2408240314	269424935	767.369485	237650341	123805047	0	0	0	0	0
Aerial Lift150	Aerial Lift	150	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift200	Aerial Lift	200	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift250	Aerial Lift	250	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift300	Aerial Lift	300	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift350	Aerial Lift	350	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift400	Aerial Lift	400	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift450	Aerial Lift	450	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift500	Aerial Lift	500	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift550	Aerial Lift	550	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift600	Aerial Lift	600	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift650	Aerial Lift	650	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift700	Aerial Lift	700	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift750	Aerial Lift	750	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift800	Aerial Lift	800	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift850	Aerial Lift	850	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift900	Aerial Lift	900	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift950	Aerial Lift	950	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lift1000	Aerial Lift	1000	15442.25	22.54	2454.16	8188179227	1854.76951	450017883	17781.41339	2131399136	0	0	0	0	0
BoneDill 25175	BoneDill 25175	251	1881.75	1.6	682.25	8.899391526	31791.76859	41.2824163	1484.76856	388513939	0	0	0	0	0
BoneDill 26350	BoneDill 26350	263	0	0	0	0	80290.72287	45.45796134	15080.52151	543959446	0	0	0	0	0
BoneDill 275	BoneDill 275	275	0	0	0	0	12322.4519	30.01381878	12171.24085	103883479	0	0	0	0	0
BoneDill 300	BoneDill 300	300	0	0	0	0	18958.14195	1.888466748	4664380294	0	0	0	0	0	0
BoneDill 350	BoneDill 350	350	0	0	0	0	41657.8741	1.55270871	8627.202379	482821286	0	0	0	0	0
BoneDill 400	BoneDill 400	400	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 450	BoneDill 450	450	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 500	BoneDill 500	500	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 550	BoneDill 550	550	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 600	BoneDill 600	600	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 650	BoneDill 650	650	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 700	BoneDill 700	700	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 750	BoneDill 750	750	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 800	BoneDill 800	800	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 850	BoneDill 850	850	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 900	BoneDill 900	900	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 950	BoneDill 950	950	0	0	0	0	0	0	0	0	0	0	0	0	0
BoneDill 1000	BoneDill 1000	1000	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	211.247192	17.80004861	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers150	Cement and Mortar Mixers	150	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers200	Cement and Mortar Mixers	200	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers250	Cement and Mortar Mixers	250	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers350	Cement and Mortar Mixers	350	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers400	Cement and Mortar Mixers	400	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers450	Cement and Mortar Mixers	450	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers500	Cement and Mortar Mixers	500	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers550	Cement and Mortar Mixers	550	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers650	Cement and Mortar Mixers	650	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers700	Cement and Mortar Mixers	700	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers800	Cement and Mortar Mixers	800	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers850	Cement and Mortar Mixers	850	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers900	Cement and Mortar Mixers	900	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers950	Cement and Mortar Mixers	950	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1000	Cement and Mortar Mixers	1000	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1100	Cement and Mortar Mixers	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1200	Cement and Mortar Mixers	1200	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1300	Cement and Mortar Mixers	1300	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1400	Cement and Mortar Mixers	1400	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1500	Cement and Mortar Mixers	1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers1600	Cement and Mortar Mixers	1600													

Construction-Related Fuel/Energy Usage (Phase 2 Construction)

CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2025	15,818	618	22	1	440	161
2026	11,542	442	15	0	357	130
Total	27,360	1,060	37	1	797	291

CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2025	646	124	4,605	643
2026	283	54	2,072	286
Total	929	178	6,677	930

CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2025	1	0	2,823	459
Total	1	0	2,823	459

CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2025	0	12,413
2026	0	21,803
Total	0	34,215

CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2025	16,465	742	7,449	13,516	440	161
2026	11,825	496	2,088	22,090	357	130
Total	28,290	1,238	9,537	35,606	797	291

Construction Worker Trips Fuel Usage Worksheet

Note: Per CalEEMod methodology, worker vehicles are "LD_Mix", which is 50% LDA, 25% LDT1, and 25% LDT2

Activity ¹	Daily trips ²	Trip miles ²	Trip days ²	Annual VMT
2025				
Phase 2 Building Demolition	15	18.5	30	8,325
Phase 2 Building Demolition Debris Haul	0	18.5	30	0
Phase 2 Asphalt Demolition	0	18.5	30	0
Phase 2 Asphalt Demolition Debris Haul	0	18.5	30	0
Phase 2 Site Preparation	13	18.5	5	1,203
Phase 2 Rough Grading	10	18.5	9	1,665
Phase 2 Fine Grading	10	18.5	8	1,480
Phase 2 Utility Trenching	3	18.5	5	278
Phase 2 Building Construction 2025	2	18.5	90	3,330
2026				
Phase 2 Building Construction 2026	2	18.5	247	9,139
Phase 2 Paving	8	18.5	15	2,220
Phase 2 Architectural Coating	1	18.5	15	278
Phase 2 Finishing/Landscaping	3	18.5	5	278
0				

¹ Based on information provided.

² Based on CalEEMod defaults.

Year	LDA VMT			LDT1 VMT			LDT2 VMT			Gasoline ¹						Diesel ¹						Electricity ²							
	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh	LDT2 m/kWh	LDT2 kWh	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh	LDT2 m/kWh
2025	4,070	8,140	4,070	29.56	126	24.68	328	24.38	164	40.57	0	23.04	0	32.18	0	2.71	124	2.77	17	2.88	20								
2026	2,979	5,957	2,979	30.16	90	25.15	235	24.98	117	41.18	0	23.16	0	32.86	0	2.71	98	2.78	16	2.87	17								

Gasoline		Diesel		Electricity	
VMT	Gallons	VMT	Gallons	VMT	kWh
15,818	618	22	1	440	161
11,542	642	15	0	357	130
27,360	1,060	37	1	797	291

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline			VMT from diesel			VMT from electricity		
	LDA	LDT1	LDT2	LDA	LDT1	LDT2	LDA	LDT1	LDT2
2025	91.56%	99.40%	98.27%	0.16%	0.02%	0.33%	8.27%	0.58%	1.39%
2026	90.96%	99.24%	98.05%	0.15%	0.02%	0.34%	8.89%	0.74%	1.62%

Vendor Trips Fuel Usage Worksheet

Note: Based on CalEEMod methodology, vendor vehicles are 50% HHDT (T7) and 50% MHDT (T6).

Activity ¹	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2025				
Phase 2 Building Demolition	8	10.2	30	2,448
Phase 2 Building Demolition Debris Haul	0	10.2	30	0
Phase 2 Asphalt Demolition	0	10.2	30	0
Phase 2 Asphalt Demolition Debris Haul	0	10.2	30	0
Phase 2 Site Preparation	10	10.2	5	510
Phase 2 Rough Grading	10	10.2	9	918
Phase 2 Fine Grading	10	10.2	8	816
Phase 2 Utility Trenching	0	10.2	5	0
Phase 2 Building Construction 2025	1	10.2	90	918
2026				
Phase 2 Building Construction 2026	1	10.2	247	2,519
Phase 2 Paving	0	10.2	15	0
Phase 2 Architectural Coating	0	10.2	15	0
Phase 2 Finishing/Landscaping	0	10.2	5	0

¹ Based on information provided.

² Based on CalEEMod defaults.

Year	HHDT (T7) VMT	MHDT (T6) VMT	Gasoline ¹				Diesel ¹			
			HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons
2025	2,805	2,805	4.14	0	5.21	124	6.14	410	8.94	234
2026	1,260	1,260	4.25	0	5.27	54	6.23	181	8.98	105

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline		VMT from diesel	
	HHDT (T7)	MHDT (T6)	HHDT (T7)	MHDT (T6)
2025	0.04%	22.99%	89.75%	74.43%
2026	0.03%	22.44%	89.60%	74.89%

VENDOR

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
645.83	123.96	4,605	643
283.05	53.75	2,072	286
928.88	177.71	6,677	930

Truck Haul Trips Fuel Usage Worksheet

Note: Hauling vehicles are HHDT (T7)

Activity	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2025				
Phase 2 Building Demolition Debris Haul	1	20	30	600
Phase 2 Asphalt Demolition Debris Haul	4	20	30	2,400

Year	VMT	Gasoline ¹		Diesel ¹	
		HHDT (T7) mpg	HHDT (T7) gallons	HHDT (T7) mpg	HHDT (T7) gallons
2025	3,000	4.14	0	6.14	459

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
1	0	2,823	459
1	0	2,823	459

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline	VMT from diesel
2025	0.04%	94.08%

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2025	0	12,413	0
2026	0	21,803	0
Total	0	34,215	0

Equipment Type ¹	Number of Equipment ²	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	2025		Total Hours of Operation	Total Gasoline		Total Diesel		Total Natural Gas	
					Working days ³	Hours Per Day		Gasoline Gal/Hr ²	gallons	Diesel Gal/Hr ²	gallons	Natural Gas Gal/Hr ²	Total Natural Gas gallons
Phase 2 Building Demolition													
Tractors/Loaders/Backhoes	1	84	100	Diesel	30	8	240	0.00	0	1.59	383	0.00	0
Excavators	1	36	50	Diesel	30	8	240	0.00	0	0.79	189	0.00	0
Forklifts	2	82	100	Diesel	30	8	480	0.00	0	0.98	471	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	30	8	480	0.00	0	1.59	766	0.00	0
Phase 2 Site Preparation													
Tractors/Loaders/Backhoes	1	84	100	Diesel	5	8	40	0.00	0	1.59	64	0.00	0
Rollers	1	36	50	Diesel	5	8	40	0.00	0	0.77	31	0.00	0
Tractors/Loaders/Backhoes	3	84	100	Diesel	5	8	120	0.00	0	1.59	191	0.00	0
Phase 2 Rough Grading													
Graders	1	148	175	Diesel	9	8	72	0.00	0	3.15	227	0.00	0
Rubber Tired Dozers	1	367	600	Diesel	9	8	72	0.00	0	7.56	544	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	9	7	126	0.00	0	1.59	201	0.00	0
Phase 2 Fine Grading													
Graders	1	148	175	Diesel	8	8	64	0.00	0	3.15	202	0.00	0
Rubber Tired Dozers	1	367	600	Diesel	8	8	64	0.00	0	7.56	484	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	8	7	112	0.00	0	1.59	179	0.00	0
Phase 2 Utility Trenching													
Excavators	1	36	50	Diesel	5	4	20	0.00	0	0.79	16	0.00	0
Phase 2 Building Construction													
Cranes	1	367	600	Diesel	90	6	540	0.00	0	5.44	2,940	0.00	0
Generator Sets	1	14	25	Diesel	90	6	540	0.00	0	1.40	754	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	90	8	720	0.00	0	1.59	1,148	0.00	0
Forklifts	2	82	100	Diesel	90	6	1,080	0.00	0	0.98	1,059	0.00	0
Welders	3	46	50	Diesel	90	8	2,160	0.00	0	1.19	2,566	0.00	0
TOTAL								0	0	12,413	0	0	0
Phase 2 Building Construction													
Cranes	1	367	600	Diesel	247	6	1,482	0.00	0	5.45	8,075	0.00	0
Generator Sets	1	14	25	Diesel	247	6	1,482	0.00	0	0.00	0	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	247	8	1,976	0.00	0	1.60	3,155	0.00	0
Forklifts	2	82	100	Diesel	247	6	2,964	0.00	0	0.98	2,905	0.00	0
Welders	3	46	50	Diesel	247	8	5,928	0.00	0	1.19	7,039	0.00	0
Phase 2 Paving													
Rollers	1	36	50	Diesel	15	8	120	0.00	0	0.77	93	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	15	8	240	0.00	0	1.60	383	0.00	0
Phase 2 Architectural Coating													
Air Compressors	1	37	50	Diesel	15	8	120	0.00	0	1.02	122	0.00	0
Phase 2 Finishing/Landscaping													
Excavators	1	36	50	Diesel	5	8	40	0.00	0	0.79	31	0.00	0
TOTAL								0	0	21,803	0	0	0

¹ Based on information provided.

² OFFROAD2021 v.1.0.1

EMFAC Fuel Usage: Year 2025

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	82,326	8,840	9.31	20,322	2,327	8.73	0	0	0.00
LDA	130,241,625	4,406,192	29.56	234,266	5,775	40.57	0	0	0.00	11,767,513	4,345,432	2.71
LD1	11,188,982	453,356	24.68	2,102	91	23.04	0	0	0.00	64,963	23,450	2.77
LD2	66,204,248	2,715,364	24.38	223,595	6,949	32.18	0	0	0.00	939,300	326,217	2.88
LHD1	4,952,850	357,899	13.84	2,596,324	126,231	20.57	0	0	0.00	98,271	54,903	1.79
LHD2	706,863	58,684	12.05	1,155,747	66,480	17.38	0	0	0.00	24,102	13,475	1.79
MCY	988,221	23,898	41.35	0	0	0.00	0	0	0.00	0	0	0.00
MDV	36,501,264	1,838,192	19.86	427,142	17,782	24.02	0	0	0.00	783,488	282,670	2.77
MH	147,454	30,470	4.84	58,426	5,868	9.96	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	84,602	15,154	5.58	0	0	0.00	0	0	0.00
OBUS	137,681	27,096	5.08	0	0	0.00	0	0	0.00	1,412	1,488	0.95
PTO	0	0	0.00	107,716	21,454	5.02	0	0	0.00	1,401	2,903	0.48
SBUS	61,982	6,891	9.00	30,783	4,197	7.33	38,177	9,065	4.21	817	945	0.86
T6	779,405	149,536	5.21	2,523,668	282,307	8.94	43,777	5,381	8.13	31,387	32,816	0.96
T7	2,730	659	4.14	6,606,902	1,075,507	6.14	376,036	63,561	5.92	36,709	64,944	0.57
UBUS	30,652	6,644	4.61	939	161	5.82	407,437	132,203	3.08	15,266	32,088	0.48
Total	251,943,967	10,074,881	25.01	14,134,538	1,636,796	8.64	885,750	212,537	4.17	13,764,631	5,181,330	2.66

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2025	All Other Buses	Aggregate	Aggregate	Diesel	1521.711878	82325.99249	82325.99249	0	13543.23571	8.839603333	0
Los Angeles (SC)	2025	All Other Buses	Aggregate	Aggregate	Natural Gas	344.2470166	20322.42992	20322.42992	0	3063.798448	2.327160685	0
Los Angeles (SC)	2025	LDA	Aggregate	Aggregate	Gasoline	3261717.882	128067964.6	128067964.6	0	15146578.41	4326.798843	0
Los Angeles (SC)	2025	LDA	Aggregate	Aggregate	Diesel	8115.47098	234266.2649	234266.2649	0	33198.01165	5.77506153	0
Los Angeles (SC)	2025	LDA	Aggregate	Aggregate	Electricity	193284.3415	9414235.572	9414235.572	0	9414235.572	962630.9064	0
Los Angeles (SC)	2025	LD1	Aggregate	Aggregate	Plug-in Hybrid	98452.19235	4526938.566	2173660.688	2353277.878	407099.8154	79.3933032	710760.0582
Los Angeles (SC)	2025	LD1	Aggregate	Aggregate	Gasoline	307303.6162	11174163.84	11174163.84	0	135474.758	452.8124007	0
Los Angeles (SC)	2025	LD1	Aggregate	Aggregate	Diesel	107.1360043	2101.61697	2101.61697	0	300.6545051	0.09123334	0
Los Angeles (SC)	2025	LD1	Aggregate	Aggregate	Electricity	1046.875547	45556.73451	0	45556.73451	4989.349211	0	17588.65952
Los Angeles (SC)	2025	LD1	Aggregate	Aggregate	Plug-in Hybrid	677.1342963	34223.91571	14817.78225	19406.13347	2799.950315	0.542001663	5861.230703
Los Angeles (SC)	2025	LD2	Aggregate	Aggregate	Gasoline	1598846.897	65845213.92	65845213.92	0	7529127.11	2701.160348	0
Los Angeles (SC)	2025	LD2	Aggregate	Aggregate	Diesel	5200.085859	223595.1163	223595.1163	0	25066.83445	6.948576996	0
Los Angeles (SC)	2025	LD2	Aggregate	Aggregate	Electricity	14017.69554	505882.2277	0	505882.2277	71409.26545	0	195312.2926
Los Angeles (SC)	2025	LD2	Aggregate	Aggregate	Plug-in Hybrid	16355.85292	792451.7915	359033.7273	433418.0641	67631.45183	13.20325761	130905.1733
Los Angeles (SC)	2025	LHD1	Aggregate	Aggregate	Gasoline	123869.9548	4952849.986	4952849.986	0	1845477.76	357.8993576	0
Los Angeles (SC)	2025	LHD1	Aggregate	Aggregate	Diesel	58715.67018	2596323.511	2596323.511	0	738569.2665	126.2314468	0
Los Angeles (SC)	2025	LHD1	Aggregate	Aggregate	Electricity	1406.155134	98271.34501	0	98271.34501	19658.39802	0	54902.59503
Los Angeles (SC)	2025	LHD2	Aggregate	Aggregate	Gasoline	18894.4929	706862.803	706862.803	0	281499.7915	58.6484201	0
Los Angeles (SC)	2025	LHD2	Aggregate	Aggregate	Diesel	26698.07852	1155746.821	1155746.821	0	335828.2415	66.47988792	0
Los Angeles (SC)	2025	LHD2	Aggregate	Aggregate	Electricity	363.0686742	24101.85724	0	24101.85724	4814.662125	0	13474.91586
Los Angeles (SC)	2025	MCY	Aggregate	Aggregate	Gasoline	150473.4563	988230.8863	988230.8863	0	300964.9126	23.89776829	0
Los Angeles (SC)	2025	MDV	Aggregate	Aggregate	Gasoline	952282.7935	36302116.46	36302116.46	0	4421639.448	1830.76438	0
Los Angeles (SC)	2025	MDV	Aggregate	Aggregate	Diesel	11031.50419	427142.2782	427142.2782	0	51916.93917	17.78163752	0
Los Angeles (SC)	2025	MDV	Aggregate	Aggregate	Electricity	15185.9899	547666.3841	0	547666.3841	77344.87449	0	211444.4256
Los Angeles (SC)	2025	MDV	Aggregate	Aggregate	Plug-in Hybrid	9770.106857	434969.1711	199147.7827	235821.3884	40399.39185	7.4274497	71225.08789
Los Angeles (SC)	2025	MH	Aggregate	Aggregate	Gasoline	14653.52741	147454.4598	147454.4598	0	1465.938882	30.47047491	0
Los Angeles (SC)	2025	MH	Aggregate	Aggregate	Diesel	5521.467554	58425.64998	58425.64998	0	552.1467554	5.868398404	0
Los Angeles (SC)	2025	Motor Coach	Aggregate	Aggregate	Diesel	632.8248219	84601.59218	84601.59218	0	14542.31443	15.1536446	0
Los Angeles (SC)	2025	OBUS	Aggregate	Aggregate	Gasoline	3574.776306	137680.6627	137680.6627	0	71524.21241	27.09622544	0
Los Angeles (SC)	2025	OBUS	Aggregate	Aggregate	Electricity	19.22602896	1412.471949	0	1412.471949	384.6743874	0	1487.69679
Los Angeles (SC)	2025	PTO	Aggregate	Aggregate	Diesel	0	107715.6155	107715.6155	0	0	21.45418036	0
Los Angeles (SC)	2025	PTO	Aggregate	Aggregate	Electricity	0	1401.362141	0	1401.362141	0	0	2902.947975
Los Angeles (SC)	2025	SBUS	Aggregate	Aggregate	Gasoline	1407.566843	61982.31618	61982.31618	0	5630.267374	6.890584573	0
Los Angeles (SC)	2025	SBUS	Aggregate	Aggregate	Diesel	1545.162913	30783.48004	30783.48004	0	22373.95898	4.197055222	0
Los Angeles (SC)	2025	SBUS	Aggregate	Aggregate	Electricity	25.60383708	817.4949517	0	817.4949517	272.6327049	0	945.27051
Los Angeles (SC)	2025	SBUS	Aggregate	Aggregate	Natural Gas	1561.068871	38177.46755	38177.46755	0	22604.27725	9.065455038	0
Los Angeles (SC)	2025	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	27.5357987	1815.735695	1815.735695	0	632.716653	0.195873862	0
Los Angeles (SC)	2025	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.340564188	27.36279449	0	27.36279449	7.826165046	0	28.67703707
Los Angeles (SC)	2025	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	36.45289301	2494.951194	2494.951194	0	837.687481	0.269338567	0
Los Angeles (SC)	2025	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.393886879	33.44850072	0	33.44850072	9.05124077	0	35.05504146
Los Angeles (SC)	2025	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	123.24663826	6475.672873	6475.672873	0	2832.201873	0.687813286	0
Los Angeles (SC)	2025	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	2.223159441	131.107867	0	131.107867	51.08820396	0	137.4050141
Los Angeles (SC)	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	203.2958341	41009.7143	41009.7143	0	4671.738267	4.058991572	0
Los Angeles (SC)	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	1.88827918	397.1936834	0	397.1936834	43.39267692	0	416.2710058
Los Angeles (SC)	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.17598695	34.16024743	34.16024743	0	4.044180102	0.003492054	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3872.091678	130018.9734	130018.9734	0	55254.74825	14.60104039	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	32.5302062	1328.52879	0	1328.52879	464.2462043	0	1388.316384
Los Angeles (SC)	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	15.77057848	561.0246702	561.0246702	0	225.0461549	0.07021985	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	3985.185312	135181.8219	135181.8219	0	56868.5944	15.28722347	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	28.79592058	1176.752816	0	1176.752816	410.9177867	0	1229.710057
Los Angeles (SC)	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	12.82384286	458.0992601	458.0992601	0	182.9962376	0.056832499	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	12226.44808	413384.4613	413384.4613	0	174471.4141	46.56383802	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	90.03777825	3633.848232	0	3633.848232	1284.839096	0	3797.381789
Los Angeles (SC)	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	42.14655174	1490.621547	1490.621547	0	601.4312933	0.185494923	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	3045.580209	166109.7043	166109.7043	0	43459.40214	18.28600519	0
Los Angeles (SC)	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	11.31486459	540.869077	0	540.869077	161.4631178	0	565.2097315
Los Angeles (SC)	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	88.61559463	4861.964162	4861.964162	0	1264.544535	0.591965963	0
Los Angeles (SC)	2025	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	4793.940538	197687.3174	197687.3174	0	55417.95262	22.26247093</	

Los Angeles (SC)	2025 T6 Public Class 7	Aggregate	Aggregate	Electricity	25.13364277	1664.418554	0	1664.418554	128.9355874	0	1741.95893
Los Angeles (SC)	2025 T6 Public Class 7	Aggregate	Aggregate	Natural Gas	294.6142066	15119.5613	15119.5613	0	1511.37088	1.839813441	0
Los Angeles (SC)	2025 T6 Utility Class 5	Aggregate	Aggregate	Diesel	635.1032531	25657.41958	25657.41958	0	8129.32292	2.755880957	0
Los Angeles (SC)	2025 T6 Utility Class 5	Aggregate	Aggregate	Electricity	10.80211703	469.4265278	0	469.4265278	138.267098	0	491.2957323
Los Angeles (SC)	2025 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	3.752348195	149.5016393	149.5016393	0	48.0300569	0.017394249	0
Los Angeles (SC)	2025 T6 Utility Class 6	Aggregate	Aggregate	Diesel	119.9880235	4827.383535	4827.383535	0	1535.846701	0.516419871	0
Los Angeles (SC)	2025 T6 Utility Class 6	Aggregate	Aggregate	Electricity	2.056321098	89.36337505	0	89.36337505	26.32091006	0	93.52655247
Los Angeles (SC)	2025 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	1.261586114	48.95091095	48.95091095	0	16.14830226	0.005708183	0
Los Angeles (SC)	2025 T6 Utility Class 7	Aggregate	Aggregate	Diesel	136.0179481	6693.236514	6693.236514	0	1741.029736	0.711743933	0
Los Angeles (SC)	2025 T6 Utility Class 7	Aggregate	Aggregate	Electricity	2.328977316	143.7785974	0	143.7785974	29.81090965	0	150.4768204
Los Angeles (SC)	2025 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	1.654197155	71.92004708	71.92004708	0	21.17372359	0.008283911	0
Los Angeles (SC)	2025 T6TS	Aggregate	Aggregate	Gasoline	14350.96956	779405.2776	779405.2776	0	287134.199	149.5355578	0
Los Angeles (SC)	2025 T6TS	Aggregate	Aggregate	Electricity	99.49426104	9377.032268	0	9377.032268	1990.681175	0	9808.204414
Los Angeles (SC)	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6686.938918	1358593.608	1358593.608	0	153665.8563	216.0802196	0
Los Angeles (SC)	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	83.08861548	16320.23285	0	16320.23285	1909.376384	0	28901.5141
Los Angeles (SC)	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	27.51527092	5529.941281	5529.941281	0	632.3009258	0.996379143	0
Los Angeles (SC)	2025 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	6009.777144	1631472.712	1631472.712	0	138104.6788	251.9519697	0
Los Angeles (SC)	2025 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	2547.17383	592389.4179	592389.4179	0	58534.0546	93.77862617	0
Los Angeles (SC)	2025 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.46632697	113.0893275	113.0893275	0	23.98920292	0.020324541	0
Los Angeles (SC)	2025 T7 POLA Class 8	Aggregate	Aggregate	Diesel	9435.721642	1173650.409	1173650.409	0	154368.4061	196.4825865	0
Los Angeles (SC)	2025 T7 POLA Class 8	Aggregate	Aggregate	Electricity	24.35511623	2577.259922	0	2577.259922	398.4497015	0	4557.802847
Los Angeles (SC)	2025 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	109.8745825	13533.4626	13533.4626	0	1797.54817	2.389571195	0
Los Angeles (SC)	2025 T7 Public Class 8	Aggregate	Aggregate	Diesel	3542.619041	141935.965	141935.965	0	18173.63568	24.68810051	0
Los Angeles (SC)	2025 T7 Public Class 8	Aggregate	Aggregate	Electricity	31.91376819	2043.686117	0	2043.686117	163.7176308	0	3614.144584
Los Angeles (SC)	2025 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1345.24917	65189.60636	65189.60636	0	6901.128243	11.02494698	0
Los Angeles (SC)	2025 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	713.4040625	48585.26469	48585.26469	0	6720.266269	7.924324402	0
Los Angeles (SC)	2025 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	13.57766501	1109.213293	0	1109.213293	127.9016044	0	1958.122635
Los Angeles (SC)	2025 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	66.28232603	4648.247133	4648.247133	0	624.3795112	0.802309472	0
Los Angeles (SC)	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	2006.617148	113315.3027	113315.3027	0	18902.33354	18.87022049	0
Los Angeles (SC)	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	15.89560867	1302.914106	0	1302.914106	149.7366336	0	2300.067643
Los Angeles (SC)	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	134.0284135	8190.345398	8190.345398	0	1262.547655	1.491236577	0
Los Angeles (SC)	2025 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	6351.876373	341597.782	341597.782	0	59834.67543	56.32564999	0
Los Angeles (SC)	2025 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	67.42648486	4645.412451	0	4645.412451	635.1574874	0	8200.665579
Los Angeles (SC)	2025 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	462.2470108	26140.42849	26140.42849	0	4354.366842	4.601446095	0
Los Angeles (SC)	2025 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	1034.686575	67162.04046	67162.04046	0	4759.558247	25.6909706	0
Los Angeles (SC)	2025 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	25.47483071	1569.213505	0	1569.213505	117.1842213	0	2766.856814
Los Angeles (SC)	2025 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3328.879708	215440.7843	215440.7843	0	15312.84666	35.44995061	0
Los Angeles (SC)	2025 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	15142.78537	1117497.572	1117497.572	0	220024.6715	180.3710924	0
Los Angeles (SC)	2025 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	86.61750705	6954.552684	0	6954.552684	1228.552377	0	12316.10208
Los Angeles (SC)	2025 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	497.1169871	37363.66446	37363.66446	0	7253.109823	6.804772575	0
Los Angeles (SC)	2025 T7 Utility Class 8	Aggregate	Aggregate	Diesel	468.5499915	20588.88843	20588.88843	0	5997.439891	3.322787421	0
Los Angeles (SC)	2025 T7 Utility Class 8	Aggregate	Aggregate	Electricity	2.490889066	159.2407161	0	159.2407161	31.88338005	0	281.6082992

EMFAC Fuel Usage: Year 2026

Vehicle type	GAS			DSL			NG			ELEC			
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh	
All other buses	0	0.00	0.00	81,976	8,715	9.41	20,859	2,358	8.84	0.00	12,485,673	4,613,207	0.00
LDA	127,796,949	4,237,331	30.16	212,062	5,150	41.18	0	0	0.00	0.00	82,027	29,327	2.71
LD1	11,007,023	437,609	25.15	1,719	74	23.16	0	0	0.00	0.00	1,107,899	386,201	2.87
LD2	67,242,281	2,691,851	24.98	230,832	7,026	33.86	0	0	0.00	0.00	177,949	99,444	1.79
LHD1	4,240,392	351,171	14.13	2,704,306	130,828	20.67	0	0	0.00	0.00	43,796	24,491	1.79
LHD2	702,537	57,217	12.28	1,209,849	69,101	17.51	0	0	0.00	0.00	0.00	0.00	0.00
MCY	1,005,181	24,235	41.48	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00
MDV	36,869,691	1,811,689	20.35	428,852	17,498	24.51	0	0	0.00	0.00	935,450	338,000	2.77
MH	146,048	30,181	4.84	60,244	6,055	9.95	0	0	0.00	0.00	0.00	0.00	0.00
Motor coach	0	0.00	0.00	85,108	15,080	5.64	0	0	0.00	0.00	0.00	0.00	0.00
OBUS	130,669	25,467	5.13	0	0	0.00	0	0	0.00	0.00	2,316	2,440	0.95
PTO	0	0.00	0.00	108,286	21,294	5.09	0	0	0.00	0.00	2,361	4,890	0.48
SBUS	63,137	6,986	9.04	29,450	4,003	7.36	39,205	9,257	4.24	1,385	1,601	0.86	0.86
T6	760,041	144,284	5.27	2,536,951	282,498	8.98	45,313	5,565	8.14	56,342	58,913	0.96	0.96
T7	2,530	595	4.25	6,711,523	1,077,296	6.23	388,065	64,884	5.98	64,320	11,816	0.57	0.57
UBUS	30,712	6,645	4.62	935	161	5.81	406,414	131,419	3.09	17,147	36,044	0.48	0.48
Total	250,718,192	9,825,261	25.52	14,402,091	1,644,779	8.76	899,855	213,484	4.22	14,976,665	5,708,584	2.62	

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2026	All Other Buses	Aggregate	Aggregate	Diesel	1544.947819	81975.64777	81975.64777	0	13750.03559	8.715367931	0
Los Angeles (SC)	2026	All Other Buses	Aggregate	Aggregate	Natural Gas	358.9603738	20858.73557	20858.73557	0	3194.747327	2.35838765	0
Los Angeles (SC)	2026	LDA	Aggregate	Aggregate	Gasoline	3219652.786	125598332.2	125598332.2	0	1494193823	4156.999113	0
Los Angeles (SC)	2026	LDA	Aggregate	Aggregate	Diesel	7348.176503	212062.0866	212062.0866	0	30172.50067	5.149764542	0
Los Angeles (SC)	2026	LDA	Aggregate	Aggregate	Electricity	209865.29	10019447.29	10019447.29	0	10019447.29	1040525.933	3868333.604
Los Angeles (SC)	2026	LDA	Aggregate	Aggregate	Plug-in Hybrid	103430.6361	4664842.379	2198616.804	2466225.574	427685.6805	80.33226876	744873.6287
Los Angeles (SC)	2026	LD1	Aggregate	Aggregate	Gasoline	303121.7183	10988219.26	10988219.26	0	1336831.01	436.9194811	0
Los Angeles (SC)	2026	LD1	Aggregate	Aggregate	Diesel	88.7979738	1718.50539	1718.50539	0	245.8298953	0.074204054	0
Los Angeles (SC)	2026	LD1	Aggregate	Aggregate	Electricity	1265.851297	56656.04808	0	56656.04808	6103.901355	0	21873.91064
Los Angeles (SC)	2026	LD1	Aggregate	Aggregate	Plug-in Hybrid	890.9485459	44174.8973	18804.21024	25370.68706	3684.072327	0.689479092	7662.703659
Los Angeles (SC)	2026	LD2	Aggregate	Aggregate	Gasoline	1632990.627	66847121.76	66847121.76	0	7689930.53	2677.276355	0
Los Angeles (SC)	2026	LD2	Aggregate	Aggregate	Diesel	5437.834714	230831.6694	230831.6694	0	26139.75562	7.025538956	0
Los Angeles (SC)	2026	LD2	Aggregate	Aggregate	Electricity	17319.28615	613691.4866	0	613691.4866	87812.4163	0	236935.5645
Los Angeles (SC)	2026	LD2	Aggregate	Aggregate	Plug-in Hybrid	18786.14155	890366.9989	396159.696	494207.3029	77680.69531	14.57501217	149265.3352
Los Angeles (SC)	2026	LHD1	Aggregate	Aggregate	Gasoline	123929.2199	4960391.725	4960391.725	0	1846360.723	351.17602	0
Los Angeles (SC)	2026	LHD1	Aggregate	Aggregate	Diesel	61552.22012	2704306.099	2704306.099	0	774249.4964	130.8276817	0
Los Angeles (SC)	2026	LHD1	Aggregate	Aggregate	Electricity	2671.099104	177948.9511	0	177948.9511	37344.02886	0	9944.445629
Los Angeles (SC)	2026	LHD2	Aggregate	Aggregate	Gasoline	18802.30269	702537.4457	702537.4457	0	280126.2946	57.21721911	0
Los Angeles (SC)	2026	LHD2	Aggregate	Aggregate	Diesel	28207.89186	1209848.539	1209848.539	0	354819.794	69.10133677	0
Los Angeles (SC)	2026	LHD2	Aggregate	Aggregate	Electricity	691.3171043	43796.419	0	43796.419	9170.618635	0	24491.13451
Los Angeles (SC)	2026	MCY	Aggregate	Aggregate	Gasoline	153887.3138	1005181.469	1005181.469	0	30770.67277	24.23505706	0
Los Angeles (SC)	2026	MDV	Aggregate	Aggregate	Gasoline	964398.5458	36646219.44	36646219.44	0	4482010.204	1803.349906	0
Los Angeles (SC)	2026	MDV	Aggregate	Aggregate	Diesel	11199.92317	428851.9709	428851.9709	0	52578.88767	17.49813003	0
Los Angeles (SC)	2026	MDV	Aggregate	Aggregate	Electricity	18645.2319	659895.0843	0	659895.0843	94502.15146	0	254773.9667
Los Angeles (SC)	2026	MDV	Aggregate	Aggregate	Plug-in Hybrid	11391.54804	499026.5259	223471.711	275554.8149	47104.05116	8.389902977	83225.76695
Los Angeles (SC)	2026	MH	Aggregate	Aggregate	Gasoline	14307.03368	146047.5722	146047.5722	0	14312.75649	30.18050526	0
Los Angeles (SC)	2026	MH	Aggregate	Aggregate	Diesel	5685.026918	60243.63088	60243.63088	0	568.5026918	6.054753085	0
Los Angeles (SC)	2026	Motor Coach	Aggregate	Aggregate	Diesel	659.4119321	85108.01675	85108.01675	0	15153.2862	15.08019822	0
Los Angeles (SC)	2026	OBUS	Aggregate	Aggregate	Gasoline	3466.029388	130669.0411	130669.0411	0	6948.21599	25.46693943	0
Los Angeles (SC)	2026	OBUS	Aggregate	Aggregate	Electricity	32.1714938	2316.377191	0	2316.377191	643.6923616	0	2439.741842
Los Angeles (SC)	2026	PTO	Aggregate	Aggregate	Diesel	0	108285.7972	108285.7972	0	2129432011	0	0
Los Angeles (SC)	2026	PTO	Aggregate	Aggregate	Electricity	0	2360.64142	0	2360.64142	0	0	4890.113006
Los Angeles (SC)	2026	SBUS	Aggregate	Aggregate	Gasoline	1439.394428	63136.50277	63136.50277	0	5757.577711	6.985775097	0
Los Angeles (SC)	2026	SBUS	Aggregate	Aggregate	Diesel	1484.919634	29449.64017	29449.64017	0	21501.6363	4.002744515	0
Los Angeles (SC)	2026	SBUS	Aggregate	Aggregate	Electricity	43.7276656	1385.007139	0	1385.007139	472.0275714	0	1601.485615
Los Angeles (SC)	2026	SBUS	Aggregate	Aggregate	Natural Gas	1619.758995	39204.63215	39204.63215	0	23454.11204	9.256785533	0
Los Angeles (SC)	2026	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	27.71966668	1820.834182	1820.834182	0	636.9997940	0.194845855	0
Los Angeles (SC)	2026	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.602687294	48.3956098	0	48.3956098	13.84975401	0	50.72189137
Los Angeles (SC)	2026	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	36.48798473	2504.125518	2504.125518	0	838.4938891	0.268376631	0
Los Angeles (SC)	2026	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.702674434	60.12162483	0	60.12162483	16.17458489	0	63.01155283
Los Angeles (SC)	2026	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	126.8224781	6479.202134	6479.202134	0	2914.300546	0.683131632	0
Los Angeles (SC)	2026	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	3.84506779	221.2490136	0	221.2490136	88.3956578	0	231.8840176
Los Angeles (SC)	2026	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	206.0975947	41255.88581	41255.88581	0	4736.122727	4.028582981	0
Los Angeles (SC)	2026	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	3.481588965	739.4920745	0	739.4920745	80.00691441	0	775.0380009
Los Angeles (SC)	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	0.172449413	33.23847686	33.23847686	0	3.962887507	0.003379293	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3907.591357	130759.0299	130759.0299	0	55761.32866	14.61703553	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	59.56320439	2414.498448	0	2414.498448	849.9669266	0	2523.704655
Los Angeles (SC)	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	17.02961631	605.1870291	605.1870291	0	243.0126247	0.075379135	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	4045.996295	136053.1245	136053.1245	0	57736.36713	15.32366095	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	54.16609187	2200.137558	0	2200.137558	772.950131	0	2299.64836
Los Angeles (SC)	2026	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	14.06483879	503.1876517	503.1876517	0	200.6987566	0.062130933	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	12397.7995	415982.9871	415982.9871	0	176961.5089	46.67407467	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	169.9459574	6834.067849	0	6834.067849	2425.123674	0	7143.168328
Los Angeles (SC)	2026	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	45.85324072	1625.462188	1625.462188	0	654.3257451	0.201277721	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	3128.926738	168114.157	168114.157	0	44649.78455	18.48769407	0
Los Angeles (SC)	2026	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	19.36624778	961.1484873	0	961.1484873	276.3563558	0	1004.620613
Los Angeles (SC)	2026	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	90.11905315	4868.923052					

Los Angeles (SC)	2026 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	3.689891278	146.5696186	146.5696186	0	47.23060835	0.016969332	0
Los Angeles (SC)	2026 T6 Utility Class 6	Aggregate	Aggregate	Diesel	119.1793904	4781.957418	4781.957418	0	1525.496197	0.509806678	0
Los Angeles (SC)	2026 T6 Utility Class 6	Aggregate	Aggregate	Electricity	3.408438381	147.8932124	0	147.8932124	43.62801128	0	154.8018791
Los Angeles (SC)	2026 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	1.167607424	44.84319644	44.84319644	0	14.94537502	0.005217324	0
Los Angeles (SC)	2026 T6 Utility Class 7	Aggregate	Aggregate	Diesel	134.2550082	6619.545181	6619.545181	0	1718.464105	0.700696646	0
Los Angeles (SC)	2026 T6 Utility Class 7	Aggregate	Aggregate	Electricity	3.89281937	236.4904655	0	236.4904655	49.82808794	0	247.5378542
Los Angeles (SC)	2026 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	1.508137537	65.41594481	65.41594481	0	19.30416047	0.007513512	0
Los Angeles (SC)	2026 T6T5	Aggregate	Aggregate	Gasoline	14018.64483	760040.5963	760040.5963	0	280485.0459	144.2836857	0
Los Angeles (SC)	2026 T6T5	Aggregate	Aggregate	Electricity	166.6906771	15391.92517	0	15391.92517	3335.147068	0	16102.63558
Los Angeles (SC)	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6769.338442	1371775.747	1371775.747	0	155559.3974	214.891633	0
Los Angeles (SC)	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	143.5678164	28750.92261	0	28750.92261	3299.188422	0	50922.90027
Los Angeles (SC)	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	27.14654357	5442.959691	5442.959691	0	623.8275712	0.971648483	0
Los Angeles (SC)	2026 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	6112.556763	1661640.346	1661640.346	0	140466.5544	250.5003145	0
Los Angeles (SC)	2026 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	2607.144181	603343.3171	603343.3171	0	59912.17328	93.72977597	0
Los Angeles (SC)	2026 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.467440829	114.8389514	114.8389514	0	24.00733196	0.020625657	0
Los Angeles (SC)	2026 T7 POLA Class 8	Aggregate	Aggregate	Diesel	9699.774104	1217296.134	1217296.134	0	158688.3043	203.5128064	0
Los Angeles (SC)	2026 T7 POLA Class 8	Aggregate	Aggregate	Electricity	44.72702196	4904.125807	0	4904.125807	731.7340793	0	8675.025477
Los Angeles (SC)	2026 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	120.8668058	15039.4796	15039.4796	0	1977.40143	2.620296978	0
Los Angeles (SC)	2026 T7 Public Class 8	Aggregate	Aggregate	Diesel	3433.905865	137721.0937	137721.0937	0	17615.93709	23.83022594	0
Los Angeles (SC)	2026 T7 Public Class 8	Aggregate	Aggregate	Electricity	53.34386261	3347.303015	0	3347.303015	273.6540152	0	5920.321205
Los Angeles (SC)	2026 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1431.599578	68479.79796	68479.79796	0	7344.105836	11.51121336	0
Los Angeles (SC)	2026 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	711.5136922	48247.5505	48247.5505	0	6702.45898	7.787949147	0
Los Angeles (SC)	2026 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	22.41780379	1816.15273	0	1816.15273	211.1757117	0	3206.572334
Los Angeles (SC)	2026 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	65.64116575	4529.615839	4529.615839	0	618.3397813	0.774803617	0
Los Angeles (SC)	2026 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	2042.943561	112756.5251	112756.5251	0	19244.52835	18.69747336	0
Los Angeles (SC)	2026 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	28.4405103	2344.729294	0	2344.729294	267.909607	0	4139.819278
Los Angeles (SC)	2026 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	138.6342972	8273.622473	8273.622473	0	1305.935079	1.494125923	0
Los Angeles (SC)	2026 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	6620.126024	344950.7231	344950.7231	0	62361.58714	56.61122291	0
Los Angeles (SC)	2026 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	114.5061174	7727.780019	0	7727.780019	1078.647626	0	13644.05383
Los Angeles (SC)	2026 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	486.9078834	26590.88196	26590.88196	0	4586.672261	4.661619939	0
Los Angeles (SC)	2026 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	922.1390957	59857.71023	59857.71023	0	4241.83984	22.85900289	0
Los Angeles (SC)	2026 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	44.21235599	2737.838194	0	2737.838194	203.3768376	0	4827.814554
Los Angeles (SC)	2026 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3430.728017	222091.3043	222091.3043	0	15781.34888	36.00797751	0
Los Angeles (SC)	2026 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	15882.01154	1133316.983	1133316.983	0	230765.6277	181.5579077	0
Los Angeles (SC)	2026 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	155.0066362	12364.92946	0	12364.92946	2252.246425	0	21902.16322
Los Angeles (SC)	2026 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	520.5591645	37617.06388	37617.06388	0	7563.72466	6.842735189	0
Los Angeles (SC)	2026 T7 Utility Class 8	Aggregate	Aggregate	Diesel	474.459194	20501.92712	20501.92712	0	6073.077684	3.297029277	0
Los Angeles (SC)	2026 T7 Utility Class 8	Aggregate	Aggregate	Electricity	4.513486298	283.7899527	0	283.7899527	57.77262461	0	501.9347419
Los Angeles (SC)	2026 T7T5	Aggregate	Aggregate	Gasoline	31.71483174	2530.344681	2530.344681	0	634.5503534	0.595008255	0
Los Angeles (SC)	2026 T7T5	Aggregate	Aggregate	Electricity	0.146807205	42.68868092	0	42.68868092	2.937318567	0	75.28164656
Los Angeles (SC)	2026 UBUS	Aggregate	Aggregate	Gasoline	435.243216	30711.79502	30711.79502	0	1740.973286	6.645484972	0
Los Angeles (SC)	2026 UBUS	Aggregate	Aggregate	Diesel	6.30137858	935.3704801	935.3704801	0	25.20551432	0.161043189	0
Los Angeles (SC)	2026 UBUS	Aggregate	Aggregate	Electricity	172.837956	17147.4887	0	17147.4887	691.3518241	0	36043.61113
Los Angeles (SC)	2026 UBUS	Aggregate	Aggregate	Natural Gas	3794.807103	406413.5462	406413.5462	0	15179.22841	131.4188537	0

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Equipment Type	Horsepower	HP	Gas			Diesel			Natural Gas		
			Price/Unit	Quantity	Value	Price/Unit	Quantity	Value	Price/Unit	Quantity	Value
Air Compressor25	Air Compressor	25	17994.6	409	7379709	0	0	0	0	0	0
Air Compressor50	Air Compressor	50	13007.4	11099	1443065	22898.38	273	22376.25	16095.1029	0	0
Air Compressor75	Air Compressor	75	0	0	0	0	0	0	0	0	
Air Compressor100	Air Compressor	100	10308.55	886.11	9155005.5	13688.1131	0	0	0	0	
Air Compressor150	Air Compressor	150	8697.61	25.36	22059.65	6.83240310	0	0	0	0	
Air Compressor200	Air Compressor	200	0	0	0	0	0	0	0	0	
Air Compressor400	Air Compressor	400	0	0	0	0	0	0	0	0	
Air Compressor750	Air Compressor	750	0	0	0	0	0	0	0	0	
Air Compressor999	Air Compressor	999	0	0	0	0	0	0	0	0	
Aerial Lift25	Aerial Lifts	25	73901.47	435,551.11	0	0	0	0	0	0	
Aerial Lift50	Aerial Lifts	50	20878.71	3938	129594.4	139551324	80391.2974	1195	1203081	3717518.77	
Aerial Lift75	Aerial Lifts	75	0	0	0	0	0	0	0	0	
Aerial Lift100	Aerial Lifts	100	130618.05	399.58	129924.4	2.84824845	189186.054	489	2961137	152481882	
Aerial Lift150	Aerial Lifts	150	0	0	0	0	0	0	0	0	
Aerial Lift200	Aerial Lifts	200	0	0	0	0	0	0	0	0	
Aerial Lift250	Aerial Lifts	250	0	0	0	0	0	0	0	0	
Aerial Lift300	Aerial Lifts	300	0	0	0	0	0	0	0	0	
Aerial Lift400	Aerial Lifts	400	0	0	0	0	0	0	0	0	
Aerial Lift500	Aerial Lifts	500	0	0	0	0	0	0	0	0	
Aerial Lift750	Aerial Lifts	750	0	0	0	0	0	0	0	0	
Aerial Lift999	Aerial Lifts	999	0	0	0	0	0	0	0	0	
BoneDill 25x25	BoneDill rigs	25	2509.45	28	181488.8	0	0	0	0	0	
BoneDill 40x25	BoneDill rigs	40	1373.4	491	529.25	236551243	1716	4211931	119932232		
BoneDill 60x25	BoneDill rigs	60	75	0	0	0	0	0	0	0	
BoneDill 80x25	BoneDill rigs	80	15421.25	22.51	2409	64015152	4633716477	493826667	2094185031		
BoneDill 90x25	BoneDill rigs	90	1291	588.2	5.99	68923.9	839331310	44239230	1488373917		
BoneDill 90x30	BoneDill rigs	90	0	0	0	0	0	0	0	0	
BoneDill 90x50	BoneDill rigs	90	0	0	0	0	0	0	0	0	
BoneDill 90x75	BoneDill rigs	90	0	0	0	0	0	0	0	0	
BoneDill 90x99	BoneDill rigs	999	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer25	Cement and Mortar Mixers	25	216	3050668	170847676	0	0	0	0	0	
Cement and Mortar Mixer50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer150	Cement and Mortar Mixers	150	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer200	Cement and Mortar Mixers	200	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer400	Cement and Mortar Mixers	400	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	
Cement and Mortar Mixer999	Cement and Mortar Mixers	999	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw25	Concrete/Industrial Saws	25	23093.4121	186	1642695	0	0	0	0	0	
Concrete/Industrial Saw50	Concrete/Industrial Saws	50	30966.6	1829	11465.35	273453548	8263.7	11.94	6701.4	138232941	
Concrete/Industrial Saw75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw100	Concrete/Industrial Saws	100	10301.25	1048	6398.85	474747672	0	0	0	0	
Concrete/Industrial Saw125	Concrete/Industrial Saws	125	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw150	Concrete/Industrial Saws	150	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw200	Concrete/Industrial Saws	200	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw400	Concrete/Industrial Saws	400	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	
Concrete/Industrial Saw999	Concrete/Industrial Saws	999	0	0	0	0	0	0	0	0	
Cranes25	Cranes	25	225	220	0	0	0	0	0	0	
Cranes50	Cranes	50	4529.65	5.59	23214	1.95121882	260224676	7.76341404	488178804	689508443	
Cranes75	Cranes	75	0	0	0	0	0	0	0	0	
Cranes100	Cranes	100	13544.4	11.34	4628.2	315457413	66888.6888	92.678175	430964150	133521795	
Cranes150	Cranes	150	997.8	0.65	185.5	5.44	13494.4511	119.817639	7498.2097	219101075	
Cranes200	Cranes	200	0	0	0	0	0	0	0	0	
Cranes300	Cranes	300	0	0	0	0	0	0	0	0	
Cranes400	Cranes	400	0	0	0	0	0	0	0	0	
Cranes750	Cranes	750	0	0	0	0	0	0	0	0	
Cranes999	Cranes	999	0	0	0	0	0	0	0	0	
Crawler Tractor25	Crawler Tractors	25	0	0	0	0	0	0	0	0	
Crawler Tractor50	Crawler Tractors	50	0	0	0	0	0	0	0	0	
Crawler Tractor75	Crawler Tractors	75	0	0	0	0	0	0	0	0	
Crawler Tractor100	Crawler Tractors	100	0	0	0	0	0	0	0	0	
Crawler Tractor150	Crawler Tractors	150	0	0	0	0	0	0	0	0	
Crawler Tractor200	Crawler Tractors	200	0	0	0	0	0	0	0	0	
Crawler Tractor300	Crawler Tractors	300	0	0	0	0	0	0	0	0	
Crawler Tractor400	Crawler Tractors	400	0	0	0	0	0	0	0	0	
Crawler Tractor750	Crawler Tractors	750	0	0	0	0	0	0	0	0	
Crawler Tractor999	Crawler Tractors	999	0	0	0	0	0	0	0	0	
Crawler Tractor1000	Crawler Tractors	1000	0	0	0	0	0	0	0	0	
Crawler Tractor1500	Crawler Tractors	1500	0	0	0	0	0	0	0	0	
Crawler Tractor2000	Crawler Tractors	2000	0	0	0	0	0	0	0	0	
Crawler Tractor3000	Crawler Tractors	3000	0	0	0	0	0	0	0	0	
Crawler Tractor4000	Crawler Tractors	4000	0	0	0	0	0	0	0	0	
Crawler Tractor5000	Crawler Tractors	5000	0	0	0	0	0	0	0	0	
Crawler Tractor7500	Crawler Tractors	7500	0	0	0	0	0	0	0	0	
Crawler Tractor9999	Crawler Tractors	9999	0	0	0	0	0	0	0	0	
Crawler Tractor10000	Crawler Tractors	10000	0	0	0	0	0	0	0	0	
Crawler Tractor15000	Crawler Tractors	15000	0	0	0	0	0	0	0	0	
Crawler Tractor20000	Crawler Tractors	20000	0	0	0	0	0	0	0	0	
Crawler Tractor30000	Crawler Tractors	30000	0	0	0	0	0	0	0	0	
Crawler Tractor40000	Crawler Tractors	40000	0	0	0	0	0	0	0	0	
Crawler Tractor50000	Crawler Tractors	50000	0	0	0	0	0	0	0	0	
Crawler Tractor75000	Crawler Tractors	75000	0	0	0	0	0	0	0	0	
Crawler Tractor99999	Crawler Tractors	99999	0	0	0	0	0	0	0	0	
Crawler Tractor100000	Crawler Tractors	100000	0	0	0	0	0	0	0	0	
Crawler Tractor150000	Crawler Tractors	150000	0	0	0	0	0	0	0	0	
Crawler Tractor200000	Crawler Tractors	200000	0	0	0	0	0	0	0	0	
Crawler Tractor300000	Crawler Tractors	300000	0	0	0	0	0	0	0	0	
Crawler Tractor400000	Crawler Tractors	400000	0	0	0	0	0	0	0	0	
Crawler Tractor500000	Crawler Tractors	500000	0	0	0	0	0	0	0	0	
Crawler Tractor750000	Crawler Tractors	750000	0	0	0	0	0	0	0	0	
Crawler Tractor999999	Crawler Tractors	999999	0	0	0	0	0	0	0	0	
Crawler Tractor1000000	Crawler Tractors	1000000	0	0	0	0	0	0	0	0	
Crawler Tractor1500000	Crawler Tractors	1500000	0	0	0	0	0	0	0	0	
Crawler Tractor2000000	Crawler Tractors	2000000	0	0	0	0	0	0	0	0	
Crawler Tractor3000000	Crawler Tractors	3000000	0	0	0	0	0	0	0	0	
Crawler Tractor4000000	Crawler Tractors	4000000	0	0	0	0	0	0	0	0	
Crawler Tractor5000000	Crawler Tractors	5000000	0	0	0	0	0	0	0	0	
Crawler Tractor7500000	Crawler Tractors	7500000	0	0	0	0	0	0	0	0	
Crawler Tractor9999999	Crawler Tractors	9999999	0	0	0	0	0	0	0	0	
Crawler Tractor10000000	Crawler Tractors	10000000	0	0	0	0	0	0	0	0	
Crawler Tractor15000000	Crawler Tractors	15000000	0	0	0	0	0	0	0	0	
Crawler Tractor20000000	Crawler Tractors	20000000	0	0	0	0	0	0	0	0	
Crawler Tractor30000000	Crawler Tractors	30000000	0	0	0	0	0	0	0	0	
Crawler Tractor40000000	Crawler Tractors	40000000	0	0	0	0	0	0	0	0	
Crawler Tractor50000000	Crawler Tractors	50000000	0	0	0	0	0	0	0	0	
Crawler Tractor75000000	Crawler Tractors	75000000	0	0	0	0	0	0	0	0	
Crawler Tractor99999999	Crawler Tractors	99999999	0	0	0	0	0	0	0	0	
Crawler Tractor100000000	Crawler Tractors	100000000	0	0	0	0	0	0	0	0	
Crawler Tractor150000000	Crawler Tractors	150000000	0	0	0	0	0	0	0	0	
Crawler Tractor200000000	Crawler Tractors	200000000	0	0	0	0	0	0	0	0	
Crawler Tractor300000000	Crawler Tractors	300000000	0	0	0	0	0	0	0	0	
Crawler Tractor400000000	Crawler Tractors	400000000	0	0	0	0	0	0	0	0	
Crawler Tractor500000000	Crawler Tractors	500000000	0	0	0	0	0	0	0	0	
Crawler Tractor750000000	Crawler Tractors	750000000	0	0	0	0	0	0	0	0	
Crawler Tractor999999999	Crawler Tractors	999999999	0	0	0	0	0	0	0	0	
Crawler Tractor1000000000	Crawler Tractors	1000000000	0	0	0	0</					

Los Angeles	2026	Commercial Harbor Crn. -Mk. -Research Boat	Aggregate	9999	0.00042485	0.00058807	0.00094778	0.00139197	0.15588139	0.00610031	0.00015839	0	0	43883.7905	777.4158	0.68125	87886.475	737919.81	1.00000000		
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Tugboat	Aggregate	300	0.00006165	0.000042	0.000056	0.000019821	0.00111312	0.00901129	0.2966	0	0	131.95647	1493.6458	1.9999991	6000.2121	6000.2121	1.00000000		
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Tugboat/Coast Guard	Aggregate	9999	0.00070711	0.0217776	0.00103138	0.00182025	0.00128434	0.01470897	0.00000048	0.0000242	0	0	154628.204	802.7524	0.0000000	30064.420	30064.420	1.00000000	
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Tugboat/Coast Guard	Aggregate	300	0.00001738	0.000007725	0.000036121	0.000038024	0.00193784	0.01290312	0.000000474	0.000004754	0	0	150.00000	786.00000	0.0000000	150.00000	150.00000	1.00000000	
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Tugboat/Coast Guard	Aggregate	300	0.00001738	0.000007725	0.000036121	0.000038024	0.00193784	0.01290312	0.000000474	0.000004754	0	0	150.00000	786.00000	0.0000000	150.00000	150.00000	1.00000000	
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Work Boat	Aggregate	800	0.00024845	0.00028811	0.00044664	0.00058435	0.00080213	0.16950054	0.00121464	0.00122424	0	0	20785.386	1796.2117	1.0000000	38888.507	38888.507	1.00000000	
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Work Boat	Aggregate	175	0.00012383	0.00012384	0.00018627	0.00021847	0.00031486	0.00032364	0.00100731	0.00000000	0.00000000	0	0	27.18336	1586.2122	1.0000000	54.36676	54.36676	1.00000000
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Work Boat	Aggregate	100	0.00012383	0.00012384	0.00018627	0.00021847	0.00031486	0.00032364	0.00100731	0.00000000	0.00000000	0	0	27.18336	1586.2122	1.0000000	54.36676	54.36676	1.00000000
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Work Boat	Aggregate	600	0.00072636	0.00098978	0.01149937	0.0113712	0.0132227	0.11547009	0.00000000	0.00000000	0.00000000	0	0	42068.2236	646.5356	0.0000000	100232.014	100232.014	1.00000000
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Work Boat	Aggregate	75	0.00004385	0.000020773	0.00007511	0.000172404	0.000484799	0.00054465	0.00024364	0.00002324	0	0	40.481493	1847.1504	1.0000000	30.748105	30.748105	1.00000000	
Los Angeles	2026	Commercial Harbor Crn. -Mk. -Work Boat	Aggregate	9999	0.00007071	0.00002776	0.000036121	0.000038024	0.00193784	0.01290312	0.000000474	0.000004754	0	0	150.00000	786.00000	0.0000000	150.00000	150.00000	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	100	0.00021832	0.00013762	0.00004854	0.00004854	0.00043720	0.17992514	0.00000000	0.00000000	0.00000000	0	1.274828	1.151465	0.0000000	20.48318	20.48318	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	9999	0.00001916	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	100	0.00004385	0.000020773	0.00007511	0.000172404	0.000484799	0.00054465	0.00024364	0.00002324	0	0	40.481493	1847.1504	1.0000000	30.748105	30.748105	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	300	0.00005908	0.00002654	0.000036121	0.000038024	0.00193784	0.01290312	0.000000474	0.000004754	0	0	150.00000	786.00000	0.0000000	150.00000	150.00000	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	750	0.00001891	0.00001088	0.000048008	0.000050128	0.000481309	0.00000000	0.00000000	0.00000000	0	0	247.91908	957.0086	0.0000000	9.8708476	9.8708476	1.00000000	
Los Angeles	2026	Construction and Mining -Bowl/Dirt Rgs	Aggregate	9999	0.00001916	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	100	0.00094935	0.00101382	0.00143866	0.00120953	0.00120953	1.76044401	0.00000000	0.00000000	0.00000000	0	1.648383	5714.7139	4.658522	92.02294	8842.762	0.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	175	0.00012348	0.00009937	0.00006165	0.00002891	0.00011312	0.00074104	0.00000000	0.00000000	0.00000000	0	0	42.00000	1469.0216	874.47682	1.00000000	1.00000000	1.00000000
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	300	0.00012348	0.00009937	0.00006165	0.00002891	0.00011312	0.00074104	0.00000000	0.00000000	0	0	42.00000	1469.0216	874.47682	1.00000000	1.00000000	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	600	0.00012348	0.00009937	0.00006165	0.00002891	0.00011312	0.00074104	0.00000000	0.00000000	0	0	42.00000	1469.0216	874.47682	1.00000000	1.00000000	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	750	0.00001891	0.00001088	0.000048008	0.000050128	0.000481309	0.00000000	0.00000000	0.00000000	0	0	247.91908	957.0086	0.0000000	9.8708476	9.8708476	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	9999	0.00001916	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	100	0.00094935	0.00101382	0.00143866	0.00120953	0.00120953	1.76044401	0.00000000	0.00000000	0.00000000	0	1.648383	5714.7139	4.658522	92.02294	8842.762	0.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	175	0.00012348	0.00009937	0.00006165	0.00002891	0.00011312	0.00074104	0.00000000	0.00000000	0.00000000	0	0	42.00000	1469.0216	874.47682	1.00000000	1.00000000	1.00000000
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	300	0.00012348	0.00009937	0.00006165	0.00002891	0.00011312	0.00074104	0.00000000	0.00000000	0	0	42.00000	1469.0216	874.47682	1.00000000	1.00000000	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	600	0.00012348	0.00009937	0.00006165	0.00002891	0.00011312	0.00074104	0.00000000	0.00000000	0	0	42.00000	1469.0216	874.47682	1.00000000	1.00000000	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	750	0.00001891	0.00001088	0.000048008	0.000050128	0.000481309	0.00000000	0.00000000	0.00000000	0	0	247.91908	957.0086	0.0000000	9.8708476	9.8708476	1.00000000	
Los Angeles	2026	Construction and Mining -Cranes	Aggregate	9999	0.00001916	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	100	0.00067241	0.00021897	0.00091259	0.00076137	0.00127153	0.10535026	0.00048824	0.00000000	0.00000000	0	8.734108	34884.1197	47.00248	360.17826	154.99035	0.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	175	0.00001916	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	300	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	600	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	750	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Crawler Tractors	Aggregate	9999	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Excavators	Aggregate	100	0.00013495	0.00049929	0.00157032	0.00130871	0.00139743	0.10052012	0.00000000	0.00000000	0.00000000	0	1.0000000	4019.9216	21.52162	37.36513	204.95308	0.00000000	
Los Angeles	2026	Construction and Mining -Excavators	Aggregate	175	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Excavators	Aggregate	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Excavators	Aggregate	300	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Excavators	Aggregate	600	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000	0.00000000	0	0.90276	37.97421	86.17931	1.0000000	1.0000000	1.00000000	
Los Angeles	2026	Construction and Mining -Excavators	Aggregate	750	0.00001876	0.00001107	0.00002866	0.00003478	0.00002696	0.12000721	0.00000000	0.00000000									

Construction-Related Fuel/Energy Usage (Phase 3 Construction)

CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2028	30,349	1,119	38	1	1,137	416
2029	50,963	1,849	62	2	2,089	764
2030	10,861	388	13	0	485	177
Total	81,312	2,968	99	3	3,226	1,179

CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2028	907	169	6,993	944
2029	1,115	206	8,816	1,176
2030	189	35	1,612	214
Total	2,023	375	15,809	2,119

CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2028	1	0	2,884	449
Total	1	0	2,884	449

CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2028	0	12,100
2029	0	22,911
2030	0	5,089
Total	0	35,011

CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2028	31,257	1,289	9,915	13,494	1,137	416
2029	52,079	2,055	8,877	24,088	2,089	764
2030	11,050	423	1,625	5,303	485	177
Total	83,336	3,343	18,792	37,582	3,226	1,179

Vendor Trips Fuel Usage Worksheet

Note: Based on CalEEMod methodology, vendor vehicles are 50% HHDT (T7) and 50% MHDT (T6).

Activity ¹	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2028				
Phase 3 Building Demolition	8	10.2	39	3,182
Phase 3 Building Demolition Debris Haul	0	10.2	39	0
Phase 3 Asphalt Demolition	0	10.2	39	0
Phase 3 Asphalt Demolition Debris Haul	0	10.2	39	0
Phase 3 Site Preparation	10	10.2	4	408
Phase 3 Rough Grading	10	10.2	8	816
Phase 3 Fine Grading	10	10.2	7	714
Phase 3 Utility Trenching	0	10.2	5	0
Phase 3 Building Construction 2028	4	10.2	82	3,346
2029				
Phase 3 Building Construction 2029	4	10.2	261	10,649
2030				
Phase 3 Building Construction 2030	4	10.2	49	1,999
Phase 3 Paving	0	10.2	20	0
Phase 3 Architectural Coating	0	10.2	20	0
Phase 3 Finishing/Landscaping	0	10.2	5	0

¹ Based on information provided.

² Based on CalEEMod defaults.

Year	HHDT (T7) VMT		MHDT (T6) VMT		Gasoline ¹			Diesel ¹			
	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons			
2028	4,233	4,233	4.44	0	5.37	169	6.42	590	9.06	354	
2029	5,324	5,324	4.54	0	5.42	205	6.52	730	9.10	445	
2030	1,000	1,000	4.63	0	5.47	34	6.62	137	9.15	77	

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline		VMT from diesel	
	HHDT (T7)	MHDT (T6)	HHDT (T7)	MHDT (T6)
2028	0.03%	21.40%	89.45%	75.76%
2029	0.03%	20.92%	89.41%	76.16%
2030	0.03%	18.87%	90.68%	70.60%

VENDOR

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
907.11	168.89	6,993	944
1,115.48	205.76	8,816	1,176
189	35	1,612	214
2,022.58	374.65	15,809	2,119

Truck Haul Trips Fuel Usage Worksheet

Note: Hauling vehicles are HHDT (T7)

Activity	Daily trips ^{1,2}	Trip miles ²	Trip days ¹	Annual VMT
2028				
Phase 3 Building Demolition Debris Haul	2	20	39	1,560
Phase 3 Asphalt Demolition Debris Haul	2	20	39	1,560

Year	VMT	Gasoline ¹		Diesel ¹	
		HHDT (T7) mpg	HHDT (T7) gallons	HHDT (T7) mpg	HHDT (T7) gallons
2028	3,120	4.44	0	6.42	449

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
1	0	2,884	449
1	0	2,884	449

¹ EMFAC2021 v1.0.1.

Year	VMT from gasoline	VMT from diesel
2028	0.03%	92.43%

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2028	0	12,100	0
2029	0	22,911	0
2030	0	5,089	0
Total	0	40,100	0

Equipment Type ¹	Number of Equipment ²	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	Working days ¹	Hours Per Day	Total Hours of Operation	Gasoline Gal/Hr ²	Total Gasoline gallons	Diesel Gal/Hr ²	Total Diesel gallons	Natural Gas Gal/Hr ²	Total Natural Gas gallons
2028													
Phase 3 Building Demolition													
Tractors/Loaders/Backhoes	1	84	100	Diesel	39	8	312	0.00	0	1.60	498	0.00	0
Excavators	1	36	50	Diesel	39	8	312	0.00	0	0.79	246	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	39	8	624	0.00	0	1.60	996	0.00	0
Forklifts	2	82	100	Diesel	39	8	624	0.00	0	0.98	613	0.00	0
Phase 3 Site Preparation													
Tractors/Loaders/Backhoes	1	84	100	Diesel	4	8	32	0.00	0	1.60	51	0.00	0
Rollers	1	36	50	Diesel	4	8	32	0.00	0	0.77	25	0.00	0
Tractors/Loaders/Backhoes	3	84	100	Diesel	4	8	96	0.00	0	1.60	153	0.00	0
Phase 3 Rough Grading													
Graders	1	148	175	Diesel	8	8	64	0.00	0	3.15	202	0.00	0
Rubber Tired Dozers	1	367	600	Diesel	8	8	64	0.00	0	7.56	484	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	8	7	112	0.00	0	1.60	179	0.00	0
Phase 3 Fine Grading													
Graders	1	148	175	Diesel	7	8	56	0.00	0	3.15	176	0.00	0
Rubber Tired Dozers	1	367	600	Diesel	7	8	56	0.00	0	7.56	423	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	7	7	98	0.00	0	1.60	157	0.00	0
Phase 3 Utility Trenching													
Excavators	1	36	50	Diesel	5	4	20	0.00	0	0.79	16	0.00	0
Phase 3 Building Construction													
Cranes	1	367	600	Diesel	90	6	540	0.00	0	5.41	2,921	0.00	0
Forklifts	1	82	100	Diesel	90	6	540	0.00	0	0.98	530	0.00	0
Generator Sets	1	14	50	Diesel	90	8	720	0.00	0	1.40	1,005	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	90	6	540	0.00	0	1.60	862	0.00	0
Welders	3	46	50	Diesel	90	8	2,160	0.00	0	1.19	2,563	0.00	0
TOTAL								0	0	12,100	0	0	0
2029													
Phase 3 Building Construction													
Cranes	1	367	600	Diesel	261	6	1,566	0.00	0	5.45	8,538	0.00	0
Forklifts	1	82	100	Diesel	261	6	1,566	0.00	0	0.98	1,529	0.00	0
Generator Sets	1	14	50	Diesel	261	8	2,088	0.00	0	1.40	2,913	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	261	6	1,566	0.00	0	1.60	2,501	0.00	0
Welders	3	46	50	Diesel	261	8	6,264	0.00	0	1.19	7,431	0.00	0
TOTAL								0	0	22,911	0	0	0
2030													
Phase 3 Building Construction													
Cranes	1	367	600	Diesel	49	6	294	0.00	0	5.45	1,603	0.00	0
Forklifts	1	82	100	Diesel	49	6	294	0.00	0	0.98	287	0.00	0
Generator Sets	1	14	50	Diesel	49	8	392	0.00	0	1.39	547	0.00	0
Tractors/Loaders/Backhoes	1	84	100	Diesel	49	6	294	0.00	0	1.60	469	0.00	0
Welders	3	46	50	Diesel	49	8	1,176	0.00	0	1.19	1,395	0.00	0
Phase 3 Paving													
Rollers	1	36	50	Diesel	20	8	160	0.00	0	0.77	123	0.00	0
Tractors/Loaders/Backhoes	2	84	100	Diesel	20	8	320	0.00	0	1.60	511	0.00	0
Phase 3 Architectural Coating													
Air Compressors	1	37	50	Diesel	20	6	120	0.00	0	1.02	122	0.00	0
Phase 3 Finishing/Landscaping													
Excavators	1	36	50	Diesel	5	8	40	0.00	0	0.79	31	0.00	0
TOTAL								0	0	5,089	0	0	0

¹ Based on information provided.

² OFFROAD2021 v.1.0.1

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	81,580	8,485	9.61	21,539	2,384	9.04	0	0	0.00
LDA	123,769,301	3,957,311	31.28	171,446	4,016	42.70	0	0	0.00	13,854,025	5,125,376	2.70
LD1	10,717,192	411,131	26.07	569	23	24.88	0	0	0.00	125,148	44,993	2.78
LD2	69,264,567	2,661,450	26.03	243,275	7,152	34.02	0	0	0.00	1,469,093	515,054	2.85
LHD1	4,906,577	335,346	14.63	2,847,270	136,590	20.85	0	0	0.00	444,199	248,553	1.79
LHD2	685,456	53,928	12.71	1,284,693	72,523	17.71	0	0	0.00	110,071	61,625	1.79
MCY	1,032,520	24,780	41.67	0	0	0.00	0	0	0.00	0	0	0.00
MDV	37,650,382	1,272,337	21.24	431,398	16,981	25.41	0	0	0.00	1,235,197	447,191	2.76
MH	143,564	29,673	4.84	63,308	6,361	9.95	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	86,063	14,890	5.78	0	0	0.00	0	0	0.00
OBUS	117,255	22,419	5.23	0	0	0.00	0	0	0.00	5,585	5,879	0.95
PTO	0	0	0.00	107,941	20,712	5.21	0	0	0.00	5,809	12,034	0.48
SBUS	64,884	7,120	9.11	26,534	3,579	7.41	40,940	9,574	4.28	3,574	4,133	0.86
T6	715,458	133,169	5.37	2,532,865	279,608	9.06	47,472	5,811	8.17	148,974	155,974	0.96
T7	2,268	511	4.44	6,898,727	1,074,550	6.42	405,733	66,221	6.13	157,330	278,955	0.56
UBUS	30,444	6,552	4.65	23	3	7.94	379,246	120,957	3.14	47,325	99,459	0.48
Total	249,099,869	9,415,726	26.46	14,775,690	1,645,473	8.98	894,929	204,947	4.37	17,606,331	6,999,225	2.52

Source: EMFAC2021 (v1.0.2) Emissions Inventory
 Region Type: Sub-Area
 Region: Los Angeles (SC)
 Calendar Year: 2028
 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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2028	All Other Buses	Aggregate	Aggregate	Diesel	1583.623071	81580.0928	81580.0928	0	14094.24533	8.48521761	0
Los Angeles (SC)	2028	All Other Buses	Aggregate	Aggregate	Natural Gas	383.0211137	21538.72555	21538.72555	0	3408.887912	2.383736287	0
Los Angeles (SC)	2028	LDA	Aggregate	Aggregate	Gasoline	3140409.083	121531275.9	121531275.9	0	14561194.04	3875.571643	0
Los Angeles (SC)	2028	LDA	Aggregate	Aggregate	Diesel	5730.385828	171445.5754	171445.5754	0	24084.62308	4.015544239	0
Los Angeles (SC)	2028	LDA	Aggregate	Aggregate	Electricity	242133.5654	11195915.06	0	11195915.06	0	0	4322547.263
Los Angeles (SC)	2028	LDA	Aggregate	Aggregate	Plug-in Hybrid	112008.9259	4896135.1	2238025.014	2658110.086	463156.8137	81.73933994	802828.4703
Los Angeles (SC)	2028	LD1	Aggregate	Aggregate	Gasoline	295789.8982	10688845.77	10688845.77	0	1306263.165	410.092255	0
Los Angeles (SC)	2028	LD1	Aggregate	Aggregate	Diesel	28.25879369	568.5264623	568.5264623	0	79.89457926	0.022852413	0
Los Angeles (SC)	2028	LD1	Aggregate	Aggregate	Electricity	1850.793917	85592.56471	0	85592.56471	9055.07574	0	33045.79432
Los Angeles (SC)	2028	LD1	Aggregate	Aggregate	Plug-in Hybrid	1409.691443	67902.06675	28346.48393	39555.58282	5829.074116	1.038515283	11946.96496
Los Angeles (SC)	2028	LD2	Aggregate	Aggregate	Gasoline	1698089.402	68789491.93	68789491.93	0	7985748.726	2643.97758	0
Los Angeles (SC)	2028	LD2	Aggregate	Aggregate	Diesel	5838.43534	243275.111	243275.111	0	27937.26706	7.151570294	0
Los Angeles (SC)	2028	LD2	Aggregate	Aggregate	Electricity	24770.0671	848796.585	0	848796.585	124528.0641	0	327705.5368
Los Angeles (SC)	2028	LD2	Aggregate	Aggregate	Plug-in Hybrid	23929.64409	1095371.549	475075.0487	620296.5006	98949.07834	17.47276663	187348.031
Los Angeles (SC)	2028	LHD1	Aggregate	Aggregate	Gasoline	123514.8081	4906577.088	4906577.088	0	1840186.604	335.3460481	0
Los Angeles (SC)	2028	LHD1	Aggregate	Aggregate	Diesel	66273.45759	2847269.923	2847269.923	0	833636.7244	136.5903584	0
Los Angeles (SC)	2028	LHD1	Aggregate	Aggregate	Electricity	7078.582149	444199.4134	0	444199.4134	98946.57947	0	248552.9281
Los Angeles (SC)	2028	LHD2	Aggregate	Aggregate	Gasoline	18493.46928	685455.8299	685455.8299	0	275255.137	53.92810432	0
Los Angeles (SC)	2028	LHD2	Aggregate	Aggregate	Diesel	30779.95102	1284692.724	1284692.724	0	387173.0626	72.5234851	0
Los Angeles (SC)	2028	LHD2	Aggregate	Aggregate	Electricity	1843.198599	110070.8101	0	110070.8101	24448.39418	0	61624.96995
Los Angeles (SC)	2028	MCY	Aggregate	Aggregate	Gasoline	160132.4304	1032520.196	1032520.196	0	320264.8608	24.77976253	0
Los Angeles (SC)	2028	MDV	Aggregate	Aggregate	Gasoline	988545.5796	37378798.2	37378798.2	0	4598797.961	1762.204626	0
Los Angeles (SC)	2028	MDV	Aggregate	Aggregate	Diesel	11427.46283	431397.9419	431397.9419	0	53491.35907	16.98064648	0
Los Angeles (SC)	2028	MDV	Aggregate	Aggregate	Electricity	25829.54662	881887.1927	0	881887.1927	129708.3178	0	340481.2425
Los Angeles (SC)	2028	MDV	Aggregate	Aggregate	Plug-in Hybrid	14652.2037	624893.2135	271583.3658	353309.8477	60586.86232	10.13240981	106710.1043
Los Angeles (SC)	2028	MH	Aggregate	Aggregate	Gasoline	13737.8769	143564.1869	143564.1869	0	1374.337205	29.67250668	0
Los Angeles (SC)	2028	MH	Aggregate	Aggregate	Diesel	5981.722201	63308.36922	63308.36922	0	598.1722201	6.36110949	0
Los Angeles (SC)	2028	Motor Coach	Aggregate	Aggregate	Diesel	707.1027725	86062.83437	86062.83437	0	16249.22171	14.89043526	0
Los Angeles (SC)	2028	OBUS	Aggregate	Aggregate	Gasoline	3248.288828	117255.0327	117255.0327	0	64991.76287	22.41881877	0
Los Angeles (SC)	2028	OBUS	Aggregate	Aggregate	Electricity	79.61401844	5584.825541	0	5584.825541	1592.917281	0	5878.767074
Los Angeles (SC)	2028	PTO	Aggregate	Aggregate	Diesel	0	107940.5415	107940.5415	0	0	20.71196796	0
Los Angeles (SC)	2028	PTO	Aggregate	Aggregate	Electricity	0	5809.270382	0	5809.270382	0	0	12034.01263
Los Angeles (SC)	2028	SBUS	Aggregate	Aggregate	Gasoline	1490.849724	64884.29173	64884.29173	0	5963.398897	7.120377974	0
Los Angeles (SC)	2028	SBUS	Aggregate	Aggregate	Diesel	1341.562637	26534.03988	26534.03988	0	19425.82699	3.578854946	0
Los Angeles (SC)	2028	SBUS	Aggregate	Aggregate	Electricity	113.0451849	3573.929977	0	3573.929977	1230.4531	0	4132.54003
Los Angeles (SC)	2028	SBUS	Aggregate	Aggregate	Natural Gas	1728.664065	40939.64835	40939.64835	0	25031.05566	9.574276455	0
Los Angeles (SC)	2028	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	27.4238427	1799.508859	1799.508859	0	630.1993563	0.420119316	0
Los Angeles (SC)	2028	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	1.5270637	123.1002524	0	123.1002524	35.10662936	0	129.1353992
Los Angeles (SC)	2028	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	35.66363127	2479.914797	2479.914797	0	819.5056238	0.262650006	0
Los Angeles (SC)	2028	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	1.808147827	157.5591731	0	157.5591731	41.55123707	0	165.2837124
Los Angeles (SC)	2028	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	130.8024135	6370.743491	6370.743491	0	3005.839641	0.664323979	0
Los Angeles (SC)	2028	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	9.359385668	521.0514514	0	521.0514514	215.0786827	0	546.596663
Los Angeles (SC)	2028	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	209.6406273	41352.10587	41352.10587	0	4817.541616	3.934090345	0
Los Angeles (SC)	2028	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	8.59370831	1845.564004	0	1845.564004	197.483417	0	1936.045131
Los Angeles (SC)	2028	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.162846655	31.15148338	31.15148338	0	3.742216123	0.003126595	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3928.643161	130621.7611	130621.7611	0	56061.73791	14.47766044	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	156.6684767	6239.659163	0	6239.659163	17.3561633	0	6594.017256
Los Angeles (SC)	2028	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	19.19796493	677.4101443	677.4101443	0	273.9549596	0.083589836	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	4100.968361	136077.3837	136077.3837	0	58520.81851	15.2052379	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	150.2481088	6057.774842	0	6057.774842	2144.040513	0	6340.645481
Los Angeles (SC)	2028	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	16.37123896	583.7387192	583.7387192	0	233.617518	0.071419793	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	12544.48692	416006.4975	416006.4975	0	179009.8283	46.31876833	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	467.2802341	18693.42894	0	18693.42894	6668.06894	0	19566.32738
Los Angeles (SC)	2028	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	52.64832826	1863.332923	1863.332923	0	751.2916443	0.225281028	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	3312.214235	171287.7692	171287.7692	0	47265.29714	18.85264924	0
Los Angeles (SC)	2028	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	54.43529864	2738.669967	0	2738.669967	776.7911715	0	2865.925429
Los Angeles (SC)	2028	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	94.24421502	4885.689059	4885.689059	0	1597.648172	0.593974284	0
Los Angeles (SC)	2028	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	4889.512195	197758.6528	197758.6528	0	56522.76098	21.95577022	0
Los Angeles (SC)	2028	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	218.8265738	10464.36368	0	10464.36368	2529.635193	0	10951.05378
Los Angeles (SC)	2028	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	22.3027192	967.2894249	967.2894249	0	257.8194339	0.113788863	0
Los Angeles (SC)	2028	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	11248.33851	463788.0087	463788.0087	0	130030.7932	51.27984757	0
Los Angeles (SC)	2028	T6 Instate Other Class 5	Aggregate	Aggregate	Electricity	459.077137	21968.80276	0	21968.80276	5306.938771	0	22990.55612
Los Angeles (SC)	2028	T6 Instate Other Class 5	Aggregate	Aggregate	Natural Gas	44.386585	1950.591213	1950.591213	0	513.1089226	0.23309064	0
Los Angeles (SC)	2028	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	10006.26543	410552.9569	410552.9569	0	115672.4284	45.67996413	0
Los Angeles (SC)	2028	T6 Instate Other Class 6	Aggregate	Aggregate	Electricity	421.6927406	20078.07344	0	20078.07344	4874.768081	0	21011.89033
Los Angeles (SC)	2028	T6 Instate Other Class 6</										

Los Angeles (SC)	2028 T6 Public Class 7	Aggregate	Aggregate	Diesel	2424.265435	107838.737	107838.737	0	12436.48168	12.18554388	0
Los Angeles (SC)	2028 T6 Public Class 7	Aggregate	Aggregate	Electricity	95.60580324	6044.124522	0	6044.124522	490.4577706	0	6334.719492
Los Angeles (SC)	2028 T6 Public Class 7	Aggregate	Aggregate	Natural Gas	343.0410638	16540.30252	16540.30252	0	1759.800657	2.010518687	0
Los Angeles (SC)	2028 T6 Utility Class 5	Aggregate	Aggregate	Diesel	608.3426629	24354.09788	24354.09788	0	7786.786086	2.587276443	0
Los Angeles (SC)	2028 T6 Utility Class 5	Aggregate	Aggregate	Electricity	44.00278129	1904.019288	0	1904.019288	563.2356006	0	1995.562476
Los Angeles (SC)	2028 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	3.504082135	138.6443807	138.6443807	0	44.85225133	0.015873445	0
Los Angeles (SC)	2028 T6 Utility Class 6	Aggregate	Aggregate	Diesel	114.8539471	4587.92418	4587.92418	0	1470.130523	0.485780264	0
Los Angeles (SC)	2028 T6 Utility Class 6	Aggregate	Aggregate	Electricity	8.392703943	363.1601022	0	363.1601022	107.4266105	0	380.6204472
Los Angeles (SC)	2028 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.988614097	37.36931085	37.36931085	0	12.65426044	0.004313846	0
Los Angeles (SC)	2028 T6 Utility Class 7	Aggregate	Aggregate	Diesel	128.1587277	6325.213926	6325.213926	0	1640.431714	0.664208821	0
Los Angeles (SC)	2028 T6 Utility Class 7	Aggregate	Aggregate	Electricity	9.347761986	561.1943723	0	561.1943723	119.6513534	0	588.1759908
Los Angeles (SC)	2028 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	1.238418744	54.18769793	54.18769793	0	15.85175993	0.006165755	0
Los Angeles (SC)	2028 T6TS	Aggregate	Aggregate	Gasoline	13309.14864	715457.69	715457.69	0	266289.4461	133.1693014	0
Los Angeles (SC)	2028 T6TS	Aggregate	Aggregate	Electricity	415.4355662	37359.48936	0	37359.48936	8312.034808	0	39137.22976
Los Angeles (SC)	2028 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6874.854645	1384755.496	1384755.496	0	157984.1597	209.7592047	0
Los Angeles (SC)	2028 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	329.5948175	68411.29473	0	68411.29473	7574.088905	0	121397.5338
Los Angeles (SC)	2028 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	26.41393805	5279.261651	5279.261651	0	606.9922965	0.920158852	0
Los Angeles (SC)	2028 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	6306.779901	1723659.425	1723659.425	0	144929.8021	247.312566	0
Los Angeles (SC)	2028 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	2722.397669	625862.5083	625862.5083	0	62560.69843	93.00140189	0
Los Angeles (SC)	2028 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.319189805	118.3381993	118.3381993	0	21.58194521	0.021121244	0
Los Angeles (SC)	2028 T7 POLA Class 8	Aggregate	Aggregate	Diesel	9874.708661	1303302.978	1303302.978	0	161550.2337	216.1911441	0
Los Angeles (SC)	2028 T7 POLA Class 8	Aggregate	Aggregate	Electricity	116.3671412	13969.05438	0	13969.05438	1903.76643	0	24758.85209
Los Angeles (SC)	2028 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	149.0711219	19549.99692	19549.99692	0	2438.803554	3.299119412	0
Los Angeles (SC)	2028 T7 Public Class 8	Aggregate	Aggregate	Diesel	3197.013809	128122.6504	128122.6504	0	16400.68084	21.91227622	0
Los Angeles (SC)	2028 T7 Public Class 8	Aggregate	Aggregate	Electricity	133.2881647	8232.817598	0	8232.817598	683.7682849	0	14591.03634
Los Angeles (SC)	2028 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1581.90606	73772.32701	73772.32701	0	8115.17809	12.2456957	0
Los Angeles (SC)	2028 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	692.6226865	46553.24297	46553.24297	0	6524.505707	7.370505795	0
Los Angeles (SC)	2028 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	53.1269315	4287.62055	0	4287.62055	500.4556948	0	7591.450809
Los Angeles (SC)	2028 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	62.68317176	4204.42012	4204.42012	0	590.475478	0.70410277	0
Los Angeles (SC)	2028 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	2092.13115	110094.4721	110094.4721	0	19707.87543	18.07863529	0
Los Angeles (SC)	2028 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	73.34820019	6013.951892	0	6013.951892	690.9400548	0	10648.00848
Los Angeles (SC)	2028 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	145.931663	8287.84295	8287.84295	0	1374.672655	1.468035959	0
Los Angeles (SC)	2028 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	7082.531101	347396.5484	347396.5484	0	66717.44297	56.47302971	0
Los Angeles (SC)	2028 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	287.9387902	18955.07438	0	18955.07438	2712.383404	0	33560.92571
Los Angeles (SC)	2028 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	529.6920247	27073.61616	27073.61616	0	4989.698873	4.694155962	0
Los Angeles (SC)	2028 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	758.667242	49239.2158	49239.2158	0	3489.869313	18.71123203	0
Los Angeles (SC)	2028 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	103.5206321	6484.088232	0	6484.088232	476.1949077	0	11465.95457
Los Angeles (SC)	2028 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3546.405314	229750.979	229750.979	0	16313.46444	36.04965539	0
Los Angeles (SC)	2028 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	17180.52019	1159546.534	1159546.534	0	249632.9583	182.5143564	0
Los Angeles (SC)	2028 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	381.8656255	30103.77345	0	30103.77345	5548.507538	0	53396.70176
Los Angeles (SC)	2028 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	558.7513727	37814.13025	37814.13025	0	8118.657445	6.839579417	0
Los Angeles (SC)	2028 T7 Utility Class 8	Aggregate	Aggregate	Diesel	474.2598779	20075.28596	20075.28596	0	6070.526438	3.204665281	0

EMFAC Fuel Usage: Year 2029

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	8,480	8,393	9.71	21,743	2,365	9.12	0	0	0.00
LDA	121,922,018	3,835,344	31.79	153,870	3,541	43.45	0	0	0.00	14,492,115	5,365,381	2.70
LD1	10,583,919	399,319	26.50	310	12	25.17	0	0	0.00	151,004	54,295	2.78
LD2	70,095,979	2,647,421	26.48	248,509	7,196	34.53	0	0	0.00	1,659,833	583,389	2.85
LHD1	4,844,121	326,426	14.84	2,886,069	138,044	20.91	0	0	0.00	4,272,226	350,966	1.79
LHD2	673,428	52,239	12.89	1,306,702	73,453	17.79	0	0	0.00	155,937	87,304	1.79
MCY	1,043,899	25,015	41.73	0	0	0.00	0	0	0.00	0	0	0.00
MDV	37,980,718	1,755,151	21.64	432,010	16,725	25.83	0	0	0.00	1,382,954	501,081	2.76
MH	142,267	29,398	4.84	64,649	6,498	9.95	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	86,534	14,800	5.85	0	0	0.00	0	0	0.00
OBUS	110,540	20,959	5.27	0	0	0.00	0	0	0.00	8,179	8,609	0.95
PTO	0	0	0.00	106,851	20,280	5.27	0	0	0.00	8,508	17,625	0.48
SBUS	65,496	7,164	9.14	25,015	3,359	7.45	41,501	9,671	4.29	5,330	6,164	0.86
T6	689,259	127,109	5.42	2,508,944	275,630	9.10	48,061	5,884	8.17	224,647	235,199	0.96
T7	2,161	476	4.54	6,978,477	1,070,171	6.52	412,030	66,716	6.18	225,242	399,357	0.56
UBUS	30,381	6,528	4.65	7	3	7.94	349,173	190,349	3.19	78,377	164,716	0.48
Total	248,184,185	9,232,547	26.88	14,879,442	1,638,104	9.08	872,508	194,005	4.50	19,019,351	7,774,084	2.45

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2029

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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2029	All Other Buses	Aggregate	Aggregate	Diesel	1596.427466	81480.31808	81480.31808	0	14208.20445	8.392943812	0
Los Angeles (SC)	2029	All Other Buses	Aggregate	Aggregate	Natural Gas	391.2316095	21743.38319	21743.38319	0	3481.961325	2.385185427	0
Los Angeles (SC)	2029	LDA	Aggregate	Aggregate	Gasoline	3102473.073	119675203.1	119675203.1	0	14382753.43	3753.22642	0
Los Angeles (SC)	2029	LDA	Aggregate	Aggregate	Diesel	5037.227479	153869.8141	153869.8141	0	21446.3601	3.540913479	0
Los Angeles (SC)	2029	LDA	Aggregate	Aggregate	Electricity	258061.723	11758448.9	11758448.9	11758448.9	1264183.72	0	4539731.753
Los Angeles (SC)	2029	LDA	Aggregate	Aggregate	Plug-in Hybrid	115602.8153	4980481.616	2246615.134	2733666.482	478017.6413	0	82.11745109
Los Angeles (SC)	2029	LD1	Aggregate	Aggregate	Gasoline	292304.9003	10550107.6	10550107.6	0	1929228.719	398.0792994	0
Los Angeles (SC)	2029	LD1	Aggregate	Aggregate	Diesel	14.46421411	309.6928262	309.6928262	0	42.49406826	0.012304307	0
Los Angeles (SC)	2029	LD1	Aggregate	Aggregate	Electricity	2220.315421	103349.1765	0	103349.1765	10906.27843	0	39901.31198
Los Angeles (SC)	2029	LD1	Aggregate	Aggregate	Plug-in Hybrid	1714.335227	81466.41087	33811.49821	47654.91266	7088.776164	0	14393.20397
Los Angeles (SC)	2029	LD2	Aggregate	Aggregate	Gasoline	1728062.987	69581205.83	69581205.83	0	8118375.473	2628.474029	0
Los Angeles (SC)	2029	LD2	Aggregate	Aggregate	Diesel	6017.696462	248508.7804	248508.7804	0	28723.85951	7.195943889	0
Los Angeles (SC)	2029	LD2	Aggregate	Aggregate	Electricity	28943.06465	976407.5161	0	976407.5161	144934.4538	0	376973.8885
Los Angeles (SC)	2029	LD2	Aggregate	Aggregate	Plug-in Hybrid	26599.16321	1198198.276	514773.2803	683424.9953	109987.5399	0	206414.7179
Los Angeles (SC)	2029	LHD1	Aggregate	Aggregate	Gasoline	122696.9825	4844120.989	4844120.989	0	1828002.221	326.4263898	0
Los Angeles (SC)	2029	LHD1	Aggregate	Aggregate	Diesel	68150.90355	2886068.985	2886068.985	0	85725.6329	138.0436876	0
Los Angeles (SC)	2029	LHD1	Aggregate	Aggregate	Electricity	10273.91163	627225.9207	0	627225.9207	143596.252	0	350966.1754
Los Angeles (SC)	2029	LHD2	Aggregate	Aggregate	Gasoline	18284.71133	673428.1989	673428.1989	0	272414.9545	52.23891164	0
Los Angeles (SC)	2029	LHD2	Aggregate	Aggregate	Diesel	31822.33307	1306702.184	1306702.184	0	400284.9175	73.45262283	0
Los Angeles (SC)	2029	LHD2	Aggregate	Aggregate	Electricity	2683.24542	155936.5107	0	155936.5107	35587.88593	0	87303.67913
Los Angeles (SC)	2029	MCY	Aggregate	Aggregate	Gasoline	163246.2714	1043899.012	1043899.012	0	326492.5428	25.01475547	0
Los Angeles (SC)	2029	MDV	Aggregate	Aggregate	Gasoline	1000112.432	37685775.9	37685775.9	0	4653285.184	1744.138365	0
Los Angeles (SC)	2029	MDV	Aggregate	Aggregate	Diesel	11514.2932	432010.3026	432010.3026	0	53830.0253	16.7253889	0
Los Angeles (SC)	2029	MDV	Aggregate	Aggregate	Electricity	29557.09916	992080.5768	0	992080.5768	147775.9494	0	383024.9835
Los Angeles (SC)	2029	MDV	Aggregate	Aggregate	Plug-in Hybrid	16295.37945	685815.5521	294941.6168	390873.8853	67381.38988	0	118055.5633
Los Angeles (SC)	2029	MH	Aggregate	Aggregate	Gasoline	13474.29589	142266.5116	142266.5116	0	1347.968561	23.39787577	0
Los Angeles (SC)	2029	MH	Aggregate	Aggregate	Diesel	6126.94779	64649.35855	64649.35855	0	612.094779	6.648180311	0
Los Angeles (SC)	2029	Motor Coach	Aggregate	Aggregate	Diesel	724.6839266	86533.61246	86533.61246	0	16653.23663	14.79965189	0
Los Angeles (SC)	2029	OBUS	Aggregate	Aggregate	Gasoline	3134.965571	110539.5544	110539.5544	0	62724.29114	20.9859551	0
Los Angeles (SC)	2029	OBUS	Aggregate	Aggregate	Electricity	117.9269338	8178.792039	0	8178.792039	2359.482092	0	8609.25968
Los Angeles (SC)	2029	PTO	Aggregate	Aggregate	Diesel	0	106851.0872	106851.0872	0	20.27983822	0	0
Los Angeles (SC)	2029	PTO	Aggregate	Aggregate	Electricity	0	8508.194154	0	8508.194154	0	0	17624.88387
Los Angeles (SC)	2029	SBUS	Aggregate	Aggregate	Gasoline	1510.633541	65496.37025	65496.37025	0	6042.534163	7.163597903	0
Los Angeles (SC)	2029	SBUS	Aggregate	Aggregate	Diesel	1263.556868	25014.60118	25014.60118	0	18296.30345	3.358737681	0
Los Angeles (SC)	2029	SBUS	Aggregate	Aggregate	Electricity	168.1253647	5330.389439	0	5330.389439	1832.530885	0	6163.536464
Los Angeles (SC)	2029	SBUS	Aggregate	Aggregate	Natural Gas	1773.755815	41501.20886	41501.20886	0	25683.9842	9.670790955	0
Los Angeles (SC)	2029	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	26.79090205	1764.741324	1764.741324	0	615.654929	0.180195956	0
Los Angeles (SC)	2029	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	2.281510138	185.1263859	0	185.1263859	52.42910297	0	194.202443
Los Angeles (SC)	2029	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	34.6895948	2435.278283	2435.278283	0	797.166077	0.256260976	0
Los Angeles (SC)	2029	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	2.71518813	239.5895821	0	239.5895821	62.0622232	0	251.3357668
Los Angeles (SC)	2029	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	130.6390983	6229.587225	6229.587225	0	3002.086478	0.646172084	0
Los Angeles (SC)	2029	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	13.7491968	759.9190361	0	759.9190361	135.9565425	0	179.1705355
Los Angeles (SC)	2029	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	209.9589933	41200.87633	41200.87633	0	4824.857666	3.868834025	0
Los Angeles (SC)	2029	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	12.13759558	2610.835069	0	2610.835069	278.9211191	0	2738.83487
Los Angeles (SC)	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	0.156739653	30.00474509	30.00474509	0	3.601877231	0.00299601	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3904.468752	129353.0648	129353.0648	0	57716.7691	14.26955373	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	236.5466974	9495.635012	0	9495.635012	3375.521371	0	9939.038145
Los Angeles (SC)	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	19.99102229	701.1823971	701.1823971	0	285.2718881	0.086313103	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	4086.190527	134830.5961	134830.5961	0	58309.93882	14.9929602	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	230.9388188	9297.992005	0	9297.992005	3295.406945	0	9732.166106
Los Angeles (SC)	2029	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	17.29772886	613.7662666	613.7662666	0	46.8386051	0.0749433	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	12490.20034	412149.62	412149.62	0	176235.1589	45.68099376	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	716.4249264	28652.97948	0	28652.97948	10223.3837	0	29990.9438
Los Angeles (SC)	2029	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	55.32142082	1950.218979	1950.218979	0	789.4366751	0.238640792	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	3390.203909	172312.8482	172312.8482	0	48378.20978	18.96349236	0
Los Angeles (SC)	2029	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	82.63632007	4218.732124	0	4218.732124	1179.220287	0	4415.728941
Los Angeles (SC)	2029	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	96.10213452	4916.540125	4916.540125	0	1371.37746	0.59789201	0
Los Angeles (SC)	2029	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	4871.592845	195216.3451	195216.3451	0	56315.61329	21.55637031	0
Los Angeles												

Los Angeles (SC)	2029 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	3.373845558	133.2929763	133.2929763	0	43.18522315	0.015206406	0
Los Angeles (SC)	2029 T6 Utility Class 6	Aggregate	Aggregate	Diesel	111.1647529	4430.659548	4430.659548	0	1422.908837	0.467079727	0
Los Angeles (SC)	2029 T6 Utility Class 6	Aggregate	Aggregate	Electricity	12.23975803	528.9167606	528.9167606	0	156.6689028	0	554.3465065
Los Angeles (SC)	2029 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.903167944	33.95107793	33.95107793	0	11.56054969	0.003908262	0
Los Angeles (SC)	2029 T6 Utility Class 7	Aggregate	Aggregate	Diesel	123.608795	6086.519765	6086.519765	0	1582.192576	0.636228357	0
Los Angeles (SC)	2029 T6 Utility Class 7	Aggregate	Aggregate	Electricity	13.54224142	811.9665237	811.9665237	0	173.3406902	0	851.0049961
Los Angeles (SC)	2029 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	1.114390067	49.16903955	49.16903955	0	14.26419285	0.005575092	0
Los Angeles (SC)	2029 T6T5	Aggregate	Aggregate	Gasoline	12914.60716	689258.5384	689258.5384	0	258395.46	127.108865	0
Los Angeles (SC)	2029 T6T5	Aggregate	Aggregate	Electricity	615.3161629	54691.79101	54691.79101	0	12311.24579	0	57294.28392
Los Angeles (SC)	2029 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6892.619092	1385024.216	1385024.216	0	158392.3867	206.1418695	0
Los Angeles (SC)	2029 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	453.9143428	95172.37649	95172.37649	0	10430.9516	0	168885.735
Los Angeles (SC)	2029 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	26.12455913	5217.651743	5217.651743	0	600.3423687	0.900017701	0
Los Angeles (SC)	2029 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	6402.639282	1755531.69	1755531.69	0	147132.6507	246.2771028	0
Los Angeles (SC)	2029 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	2772.636456	637435.3603	637435.3603	0	63715.18577	92.61468731	0
Los Angeles (SC)	2029 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.196327087	120.0878232	120.0878232	0	19.57191115	0.021319501	0
Los Angeles (SC)	2029 T7 POLA Class 8	Aggregate	Aggregate	Diesel	9841.957913	1344934.729	1344934.729	0	161014.4315	221.4079332	0
Los Angeles (SC)	2029 T7 POLA Class 8	Aggregate	Aggregate	Electricity	171.2088878	21555.71018	21555.71018	0	2800.977404	0	38205.49521
Los Angeles (SC)	2029 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	165.5424357	22499.73241	22499.73241	0	2708.274248	3.735142796	0
Los Angeles (SC)	2029 T7 Public Class 8	Aggregate	Aggregate	Diesel	3056.778912	122358.9268	122358.9268	0	15681.27582	20.79939634	0
Los Angeles (SC)	2029 T7 Public Class 8	Aggregate	Aggregate	Electricity	199.7411309	12277.48039	12277.48039	0	1024.672002	0	21759.39895
Los Angeles (SC)	2029 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1644.780269	75705.11045	75705.11045	0	8437.72278	12.52883229	0
Los Angeles (SC)	2029 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	674.787852	45097.10868	45097.10868	0	6356.501566	7.073814407	0
Los Angeles (SC)	2029 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	76.65737327	6205.192292	6205.192292	0	722.1124562	0	10986.60936
Los Angeles (SC)	2029 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	60.40061138	3997.82749	3997.82749	0	568.9737592	0.664984899	0
Los Angeles (SC)	2029 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	2098.795839	108168.8764	108168.8764	0	19770.65681	17.66350846	0
Los Angeles (SC)	2029 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	104.8805955	8599.366104	8599.366104	0	987.97521	0	15225.61617
Los Angeles (SC)	2029 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	147.9323102	8203.945668	8203.945668	0	1393.522362	1.444999583	0
Los Angeles (SC)	2029 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	7254.961832	345650.5428	345650.5428	0	68341.74046	55.91025315	0
Los Angeles (SC)	2029 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	429.2379174	28044.40801	28044.40801	0	4043.421182	0	49654.05437
Los Angeles (SC)	2029 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	545.6070042	27005.13206	27005.13206	0	5139.61798	4.67438036	0
Los Angeles (SC)	2029 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	679.7793577	44126.53473	44126.53473	0	3126.985045	16.739380599	0
Los Angeles (SC)	2029 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	157.3884429	9880.297561	9880.297561	0	723.9868375	0	17471.54556
Los Angeles (SC)	2029 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3576.641653	231757.8088	231757.8088	0	16452.5516	35.97725563	0
Los Angeles (SC)	2029 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	1742.53137	1170311.41	1170311.41	0	257798.9808	182.3934905	0
Los Angeles (SC)	2029 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	540.2139415	42207.64886	42207.64886	0	7849.30857	0	74866.0045
Los Angeles (SC)	2029 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	571.4031685	37642.48011	37642.48011	0	8302.488039	6.789994071	0
Los Angeles (SC)	2029 T7 Utility Class 8	Aggregate	Aggregate	Diesel	468.8313337	19717.65595	19717.65595	0	6001.041072	3.133778441	0
Los Angeles (SC)	2029 T7 Utility Class 8	Aggregate	Aggregate	Electricity	18.70784129	1146.753215	1146.753215	0	239.4603686	0	2032.392633
Los Angeles (SC)	2029 T7T5	Aggregate	Aggregate	Gasoline	22.86269746	2160.740713	2160.740713	0	457.4368508	0.476117973	0
Los Angeles (SC)	2029 T7T5	Aggregate	Aggregate	Electricity	0.562415853	152.8409243	152.8409243	0	11.25281839	0	270.2162643
Los Angeles (SC)	2029 UBUS	Aggregate	Aggregate	Gasoline	429.7883554	30381.3794	30381.3794	0	1719.154142	6.527771424	0
Los Angeles (SC)	2029 UBUS	Aggregate	Aggregate	Diesel	0.21774371	22.86192822	22.86192822	0	0.870974839	0.00287857	0
Los Angeles (SC)	2029 UBUS	Aggregate	Aggregate	Electricity	691.3763319	78376.62483	78376.62483	0	2765.505328	0	164715.8084
Los Angeles (SC)	2029 UBUS	Aggregate	Aggregate	Natural Gas	3314.398676	349172.6643	349172.6643	0	13257.59471	109.3494161	0

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0.00	0	81,410	8,319	9,79	21,895	2,384	9,19	0	0	0.00
DA	120,177,898	3,723,227	32.27	138,040	3,117	44,29	0	0	0.00	15,103,834	5,596,380	2.70
LD11	10,455,382	388,267	26.93	1,42	5	26.01	0	0	0.00	179,956	64,735	2.78
LD12	70,811,255	2,633,286	26.89	252,948	7,223	35.02	0	0	0.00	1,857,951	654,575	2.84
LHD1	4,762,184	316,932	15.03	2,904,639	138,581	20.96	0	0	0.00	839,193	469,573	1.79
LHD2	659,437	50,510	13.06	1,318,878	73,867	17.85	0	0	0.00	209,304	117,182	1.79
MCY	1,053,620	25,211	41.79	0	0	0.00	0	0	0.00	0	0	0.00
MDV	38,277,152	1,739,554	22.00	432,036	16,468	26.24	0	0	0.00	1,530,193	554,846	2.76
MH	141,310	29,196	4.84	65,879	6,624	9.95	0	0	0.00	0	0	0.00
Motor coach	0	0.00	0.00	87,007	14,734	5.91	0	0	0.00	0	0	0.00
OBUS	103,767	19,522	5.32	0	0	0.00	0	0	0.00	11,343	11,940	0.95
PTO	0	0.00	0.00	105,246	19,784	5.32	0	0	0.00	11,750	24,340	0.48
SBUS	65,771	7,171	9.17	23,514	3,141	7.49	41,816	9,716	4.30	7,505	8,678	0.86
T6	660,270	120,719	5.47	2,470,045	269,995	9.15	48,316	5,918	8.16	319,270	334,996	0.96
TD	2,050	442	4.63	7,050,467	1,065,122	6.62	416,325	66,947	6.22	306,298	543,057	0.56
UBUS	30,262	6,491	4.66	23	3	7.93	298,866	92,589	3.23	129,718	272,613	0.48
Total	247,200,359	9,061,027	27.28	14,930,282	1,626,985	9.18	827,218	177,553	4.66	20,507,014	8,652,916	2.37

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2030

Season: Annual

Vehicle Classification: EMFAC2021 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	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Los Angeles (SC)	2030	All Other Buses	Aggregate	Aggregate	Diesel	1603.409662	81409.54867	81409.54867	0	14270.34599	8.319427378	0
Los Angeles (SC)	2030	All Other Buses	Aggregate	Aggregate	Natural Gas	397.2251135	21895.48936	21895.48936	0	3535.30351	2.38601596	0
Los Angeles (SC)	2030	DA	Aggregate	Aggregate	Gasoline	3065870.615	117929999.6	117929999.6	0	14213045.63	3641.515138	0
Los Angeles (SC)	2030	DA	Aggregate	Aggregate	Diesel	4404.535506	138048.5679	138048.5679	0	19040.07825	3.11714298	0
Los Angeles (SC)	2030	LD11	Aggregate	Aggregate	Electricity	273853.9912	12308601.92	0	12308601.92	1336941.757	0	4752136.226
Los Angeles (SC)	2030	LD11	Aggregate	Aggregate	Plug-in Hybrid	118687.3495	5043130.464	2247897.958	2795232.506	490772.1901	82.21194808	844243.5281
Los Angeles (SC)	2030	LD11	Aggregate	Aggregate	Gasoline	288856.689	10415644.31	0	0	1278722.203	386.8093521	0
Los Angeles (SC)	2030	LD11	Aggregate	Aggregate	Diesel	5.36215418	141.8002095	141.8002095	0	18.0762412	0.00545138	0
Los Angeles (SC)	2030	LD11	Aggregate	Aggregate	Electricity	2677.54481	123532.2683	0	123532.2683	13038.17023	0	47693.65124
Los Angeles (SC)	2030	LD12	Aggregate	Aggregate	Plug-in Hybrid	2050.041853	96161.35648	39737.6372	56423.71927	8476.923063	1.457294097	17041.64492
Los Angeles (SC)	2030	LD12	Aggregate	Aggregate	Gasoline	1756014.178	70256791.12	70256791.12	0	8239946.536	2612.863974	0
Los Angeles (SC)	2030	LD12	Aggregate	Aggregate	Diesel	6176.053471	252947.6066	252947.6066	0	29415.51772	7.223190618	0
Los Angeles (SC)	2030	LD12	Aggregate	Aggregate	Electricity	33440.8921	1111423.869	0	1111423.869	166833.4783	0	429101.3441
Los Angeles (SC)	2030	LD12	Aggregate	Aggregate	Plug-in Hybrid	29324.52043	1300991.918	554664.3251	746527.5929	121256.892	20.42213072	225473.5831
Los Angeles (SC)	2030	LHD1	Aggregate	Aggregate	Gasoline	121567.502	4762184.081	4762184.081	0	1811174.644	316.9316988	0
Los Angeles (SC)	2030	LHD1	Aggregate	Aggregate	Diesel	69687.91575	2904638.704	2904638.704	0	876586.3127	138.5814974	0
Los Angeles (SC)	2030	LHD1	Aggregate	Aggregate	Electricity	14114.45537	839192.6495	0	839192.6495	197250.6375	0	469573.2674
Los Angeles (SC)	2030	LHD2	Aggregate	Aggregate	Gasoline	18044.54269	659437.4029	659437.4029	0	268836.7997	50.51001495	0
Los Angeles (SC)	2030	LHD2	Aggregate	Aggregate	Diesel	32680.47142	1318877.665	1318877.665	0	411079.2184	73.86687337	0
Los Angeles (SC)	2030	LHD2	Aggregate	Aggregate	Electricity	3696.826543	209303.9957	0	209303.9957	49025.09004	0	117182.4555
Los Angeles (SC)	2030	MCV	Aggregate	Aggregate	Gasoline	166034.0037	1053619.998	1053619.998	0	332068.0073	25.21103297	0
Los Angeles (SC)	2030	MCV	Aggregate	Aggregate	Gasoline	1011493.824	37959421.88	37959421.88	0	4705729.199	1277.681039	0
Los Angeles (SC)	2030	MDV	Aggregate	Aggregate	Diesel	11580.99228	432036.2883	432036.2883	0	54079.5243	16.46763542	0
Los Angeles (SC)	2030	MDV	Aggregate	Aggregate	Electricity	33393.86767	1102660.831	0	1102660.831	166260.4866	0	425718.0885
Los Angeles (SC)	2030	MDV	Aggregate	Aggregate	Plug-in Hybrid	17938.01761	745262.1882	317729.8052	427532.2931	17173.70282	11.8726588	129127.495
Los Angeles (SC)	2030	MH	Aggregate	Aggregate	Gasoline	13280.83654	141309.8818	141309.8818	0	1328.614888	29.19592147	0
Los Angeles (SC)	2030	MH	Aggregate	Aggregate	Diesel	6271.699809	65879.07026	65879.07026	0	627.1698909	6.623940906	0
Los Angeles (SC)	2030	Motor Coach	Aggregate	Aggregate	Gasoline	734.9328954	87006.96581	87006.96581	0	16888.75794	14.73417129	0
Los Angeles (SC)	2030	OBUS	Aggregate	Aggregate	Diesel	3017.51154	103767.213	103767.213	0	60374.37089	19.52212356	0
Los Angeles (SC)	2030	OBUS	Aggregate	Aggregate	Electricity	165.5662826	11343.2681	0	11343.2681	3312.650182	0	11940.289
Los Angeles (SC)	2030	PTO	Aggregate	Aggregate	Diesel	0	105246.2964	105246.2964	0	0	0	19.7844728
Los Angeles (SC)	2030	PTO	Aggregate	Aggregate	Electricity	0	11749.92863	0	11749.92863	0	0	24340.19767
Los Angeles (SC)	2030	SBUS	Aggregate	Aggregate	Gasoline	1522.748821	65771.0434	0	0	6090.995285	7.170875676	0
Los Angeles (SC)	2030	SBUS	Aggregate	Aggregate	Diesel	1182.981915	23513.81569	23513.81569	0	17129.57812	3.140853078	0
Los Angeles (SC)	2030	SBUS	Aggregate	Aggregate	Electricity	235.6202857	7504.648101	0	7504.648101	2566.614125	0	8677.634674
Los Angeles (SC)	2030	SBUS	Aggregate	Aggregate	Natural Gas	1811.13212	41816.3955	41816.3955	0	26225.19309	9.715589529	0
Los Angeles (SC)	2030	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	25.96138509	1714.026474	1714.026474	0	596.5926293	0.178621043	0
Los Angeles (SC)	2030	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	3.2200734	263.4863025	0	263.4863025	73.99728673	0	276.4040544
Los Angeles (SC)	2030	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	33.4372114	2368.814357	2368.814357	0	768.3988318	0.247565158	0
Los Angeles (SC)	2030	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	3.849631091	343.9775685	0	343.9775685	88.46452247	0	360.8415072
Los Angeles (SC)	2030	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	129.4158214	6036.652174	6036.652174	0	2933.975577	0.622906991	0
Los Angeles (SC)	2030	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	19.11026123	1051.950742	0	1051.950742	439.1538032	0	1103.523968
Los Angeles (SC)	2030	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	209.5932099	40934.79897	40934.79897	0	4816.451964	3.797800227	0
Los Angeles (SC)	2030	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	16.27882335	3498.94254	0	3498.94254	374.0873605	0	3670.482658
Los Angeles (SC)	2030	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.154843272	29.55893923	29.55893923	0	3.558298381	0.002939676	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3856.444912	127275.0531	127275.0531	0	55031.4689	13.97524976	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	337.6503032	13536.6473	0	13536.6473	4818.269826	0	14168.7474
Los Angeles (SC)	2030	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	20.58087156	716.7088493	716.7088493	0	293.6890371	0.088093826	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	4043.459776	132726.9525	132726.9525	0	57700.171	14.69001477	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	334.0568673	13431.40445	0	13431.40445	4766.991496	0	14058.59018
Los Angeles (SC)	2030	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	18.0477192	636.1428339	636.1428339	0	257.5412773	0.077568815	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	12352.71988	405698.5077	405698.5077	0	176273.3127	44.76266108	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	1032.999417	41317.9618	0	41317.9618	14740.90168	0	43247.32342
Los Angeles (SC)	2030	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	57.44951091	2013.662603	2013.662603	0	819.8045207	0.246008864	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	3452.479347	127279.1302	127279.1302	0	49256.86601	18.98930089	0
Los Angeles (SC)	2030	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	121.7772879	67278.719943	0	67278.719943	1737.761899	0	6571.907711
Los Angeles (SC)	2030	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	98.1437732	4943.768284	4943.768284	0	1400.511702	0.60151899	0
Los Angeles (SC)	2030	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	4823.061154	191250.3113	191250.3113	0	55754.58694	2	

Los Angeles (SC)	2030 T6 Public Class 7	Aggregate	Aggregate	Electricity	189.7322101	11752.55108	0	11752.55108	973.3262379	0	12317.60103
Los Angeles (SC)	2030 T6 Public Class 7	Aggregate	Aggregate	Natural Gas	360.8566596	16660.30256	16660.30256	0	1851.194664	2.031564168	0
Los Angeles (SC)	2030 T6 Utility Class 5	Aggregate	Aggregate	Diesel	564.5849132	22487.90343	22487.90343	0	7226.686889	2.366603937	0
Los Angeles (SC)	2030 T6 Utility Class 5	Aggregate	Aggregate	Electricity	88.75142711	3829.503437	0	3829.503437	1136.018267	0	4013.621821
Los Angeles (SC)	2030 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	3.219881193	127.0239334	127.0239334	0	41.21447926	0.014447113	0
Los Angeles (SC)	2030 T6 Utility Class 6	Aggregate	Aggregate	Diesel	106.5518311	4238.653851	4238.653851	0	1363.863438	0.444833291	0
Los Angeles (SC)	2030 T6 Utility Class 6	Aggregate	Aggregate	Electricity	16.8737998	728.0686215	0	728.0686215	215.9846374	0	763.0733735
Los Angeles (SC)	2030 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.820911003	30.73964262	30.73964262	0	10.50766084	0.003528656	0
Los Angeles (SC)	2030 T6 Utility Class 7	Aggregate	Aggregate	Diesel	118.2969184	5796.705419	5796.705419	0	1514.200555	0.603341976	0
Los Angeles (SC)	2030 T6 Utility Class 7	Aggregate	Aggregate	Electricity	18.55304437	1111.875051	0	1111.875051	237.478968	0	1165.332801
Los Angeles (SC)	2030 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.99880378	44.54937402	44.54937402	0	12.78579684	0.005033454	0
Los Angeles (SC)	2030 T6T5	Aggregate	Aggregate	Gasoline	12498.87076	660270.4024	660270.4024	0	250079.407	120.7185364	0
Los Angeles (SC)	2030 T6T5	Aggregate	Aggregate	Electricity	865.0622867	75925.28645	0	75925.28645	17308.16623	0	79538.16904
Los Angeles (SC)	2030 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6888.75992	1381665.562	1381665.562	0	158303.703	202.1755899	0
Los Angeles (SC)	2030 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	597.3250717	126049.0505	0	126049.0505	13726.53015	0	223677.1564
Los Angeles (SC)	2030 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	25.88325872	5166.493472	5166.493472	0	594.7972854	0.88311698	0
Los Angeles (SC)	2030 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	6500.852584	1787993.305	1787993.305	0	149389.5924	246.0358974	0
Los Angeles (SC)	2030 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	2819.514101	649222.206	649222.206	0	64792.43405	92.3499662	0
Los Angeles (SC)	2030 T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.052362416	121.8374471	121.8374471	0	17.21664913	0.021500857	0
Los Angeles (SC)	2030 T7 POAK Class 8	Aggregate	Aggregate	Diesel	9759.959208	1385125.413	1385125.413	0	159672.9326	225.8506759	0
Los Angeles (SC)	2030 T7 POLA Class 8	Aggregate	Aggregate	Electricity	240.6752764	31773.70912	0	31773.70912	3937.447523	0	56315.94975
Los Angeles (SC)	2030 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	183.2339211	25886.6388	25886.6388	0	2997.706949	4.228438219	0
Los Angeles (SC)	2030 T7 Public Class 8	Aggregate	Aggregate	Diesel	2909.99648	116228.483	116228.483	0	14928.28194	19.63329561	0
Los Angeles (SC)	2030 T7 Public Class 8	Aggregate	Aggregate	Electricity	281.8800643	17242.08057	0	17242.08057	1446.04473	0	30558.16811
Los Angeles (SC)	2030 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	1697.484152	77036.69591	77036.69591	0	8708.0937	12.72006327	0
Los Angeles (SC)	2030 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	652.4853379	43297.84489	43297.84489	0	6146.411883	6.732888689	0
Los Angeles (SC)	2030 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	104.4320799	8487.843894	0	8487.843894	983.7501927	0	15028.16041
Los Angeles (SC)	2030 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	57.73216401	3770.464313	3770.464313	0	543.8369849	0.623473388	0
Los Angeles (SC)	2030 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	2090.484865	106134.3928	106134.3928	0	19692.36743	17.23264644	0
Los Angeles (SC)	2030 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	138.9317071	11353.51803	0	11353.51803	1308.73668	0	20101.98259
Los Angeles (SC)	2030 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	148.6026261	8062.864753	8062.864753	0	1399.836738	1.413929331	0
Los Angeles (SC)	2030 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	7382.035338	342049.9778	342049.9778	0	69538.77288	55.06135048	0
Los Angeles (SC)	2030 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	606.0329184	39333.62725	0	39333.62725	5708.830091	0	69642.19267
Los Angeles (SC)	2030 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	557.3649375	26725.84094	26725.84094	0	5250.377711	4.622014498	0
Los Angeles (SC)	2030 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	614.829751	39905.7315	39905.7315	0	2828.216855	15.111216161	0
Los Angeles (SC)	2030 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	219.6872858	13922.23983	0	13922.23983	1010.561515	0	24619.00017
Los Angeles (SC)	2030 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	3582.24708	232161.8425	232161.8425	0	16478.33657	35.70760012	0
Los Angeles (SC)	2030 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	18240.36852	1179456.718	1179456.718	0	265032.5546	181.8677985	0
Los Angeles (SC)	2030 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	727.7941137	56307.75703	0	56307.75703	10574.84847	0	99876.13395
Los Angeles (SC)	2030 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	583.312385	37513.85657	37513.85657	0	8475.528954	6.747992336	0
Los Angeles (SC)	2030 T7 Utility Class 8	Aggregate	Aggregate	Diesel	460.8276286	19265.86173	19265.86173	0	5898.593646	3.049464784	0
Los Angeles (SC)	2030 T7 Utility Class 8	Aggregate	Aggregate	Electricity	26.56904854	1614.987871	0	1614.987871	340.0838213	0	2862.245692
Los Angeles (SC)	2030 T7T5	Aggregate	Aggregate	Gasoline	19.94994694	2049.507874	2049.507874	0	399.1583383	0.44228502	0
Los Angeles (SC)	2030 T7T5	Aggregate	Aggregate	Electricity	0.803286289	212.912474	0	212.912474	16.07215207	0	376.4202135
Los Angeles (SC)	2030 UBUS	Aggregate	Aggregate	Gasoline	424.0146281	30262.45025	30262.45025	0	1696.058513	6.491346774	0
Los Angeles (SC)	2030 UBUS	Aggregate	Aggregate	Diesel	0.216177208	22.79632199	22.79632199	0	0.864708833	0.002875046	0
Los Angeles (SC)	2030 UBUS	Aggregate	Aggregate	Electricity	1139.954457	129717.5163	0	129717.5163	4559.817827	0	272613.4979
Los Angeles (SC)	2030 UBUS	Aggregate	Aggregate	Natural Gas	2880.459868	298865.8777	298865.8777	0	11521.83947	92.5888972	0

