

Operational Transportation Energy Worksheet

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	Fuel Consumption	MPG
Los Angeles	2025	HHDT	Aggregate	Aggregate	Diesel	2173518084	354395.8443	6.13302362
Los Angeles	2025	LDA	Aggregate	Aggregate	Diesel	85632098.26	2100.294449	40.7714729
Los Angeles	2025	LDT1	Aggregate	Aggregate	Diesel	755037.9244	32.67896484	23.1047075
Los Angeles	2025	LDT2	Aggregate	Aggregate	Diesel	78976809.68	2450.269959	32.231881
Los Angeles	2025	LHDT1	Aggregate	Aggregate	Diesel	877828509.5	42622.34301	20.595501
Los Angeles	2025	LHDT2	Aggregate	Aggregate	Diesel	391070132.8	22478.29446	17.3976782
Los Angeles	2025	MDV	Aggregate	Aggregate	Diesel	153684679.7	6388.69007	24.055742
Los Angeles	2025	MH	Aggregate	Aggregate	Diesel	19950850.7	2000.516639	9.97284917
Los Angeles	2025	MHDT	Aggregate	Aggregate	Diesel	814222776.1	90927.29379	8.95465753
Los Angeles	2025	OBUS	Aggregate	Aggregate	Diesel	49754997.14	7149.738362	6.95899551
Los Angeles	2025	SBUS	Aggregate	Aggregate	Diesel	12728858.32	1721.798892	7.39276717
Los Angeles	2025	UBUS	Aggregate	Aggregate	Diesel	1944525.485	302.8644717	6.42044765
							532,570,627	
Los Angeles	2025	HHDT	Aggregate	Aggregate	Gasoline	899706.1381	216.9321942	4.14740717
Los Angeles	2025	LDA	Aggregate	Aggregate	Gasoline	45805469187	1546599.468	29.6168919
Los Angeles	2025	LDT1	Aggregate	Aggregate	Gasoline	3971568856	160884.9298	24.685773
Los Angeles	2025	LDT2	Aggregate	Aggregate	Gasoline	23286161806	955325.4151	24.3751097
Los Angeles	2025	LHDT1	Aggregate	Aggregate	Gasoline	1651360044	119373.9213	13.8335076
Los Angeles	2025	LHDT2	Aggregate	Aggregate	Gasoline	235497620.3	19540.5219	12.0517569
Los Angeles	2025	MCY	Aggregate	Aggregate	Gasoline	350938143.8	8484.240529	41.3635307
Los Angeles	2025	MDV	Aggregate	Aggregate	Gasoline	12925162908	651811.1621	19.8296127
Los Angeles	2025	MH	Aggregate	Aggregate	Gasoline	50575711.66	10439.00232	4.84487982
Los Angeles	2025	MHDT	Aggregate	Aggregate	Gasoline	260016140.2	49847.1185	5.21627223
Los Angeles	2025	OBUS	Aggregate	Aggregate	Gasoline	46271420.97	9101.88076	5.08372085
Los Angeles	2025	SBUS	Aggregate	Aggregate	Gasoline	21963772.16	2432.261483	9.03018541
Los Angeles	2025	UBUS	Aggregate	Aggregate	Gasoline	10023196.98	2172.514727	4.61363822
							3,536,229,368	
Los Angeles	2025	HHDT	Aggregate	Aggregate	Electricity	12301228.26	0	
Los Angeles	2025	LDA	Aggregate	Aggregate	Electricity	3320908342	0	
Los Angeles	2025	LDT1	Aggregate	Aggregate	Electricity	15990856.43	0	
Los Angeles	2025	LDT2	Aggregate	Aggregate	Electricity	178029466.7	0	
Los Angeles	2025	LHDT1	Aggregate	Aggregate	Electricity	32592965.26	0	
Los Angeles	2025	LHDT2	Aggregate	Aggregate	Electricity	7993718.397	0	
Los Angeles	2025	MDV	Aggregate	Aggregate	Electricity	192741473.1	0	
Los Angeles	2025	MHDT	Aggregate	Aggregate	Electricity	10228237.33	0	
Los Angeles	2025	OBUS	Aggregate	Aggregate	Electricity	475543.471	0	
Los Angeles	2025	SBUS	Aggregate	Aggregate	Electricity	289433.6738	0	
Los Angeles	2025	UBUS	Aggregate	Aggregate	Electricity	5785036.043	0	
Los Angeles	2025	HHDT	Aggregate	Aggregate	Natural Gas	117491455.3	19862.42567	
Los Angeles	2025	MHDT	Aggregate	Aggregate	Natural Gas	13809142.62	1695.512663	
Los Angeles	2025	OBUS	Aggregate	Aggregate	Natural Gas	5934149.538	679.53092	
Los Angeles	2025	SBUS	Aggregate	Aggregate	Natural Gas	12717198.45	3019.563573	
Los Angeles	2025	UBUS	Aggregate	Aggregate	Natural Gas	134816593	43757.95864	
Los Angeles	2025	LDA	Aggregate	Aggregate	Plug-in Hybrid	1611810733	28223.9709	
Los Angeles	2025	LDT1	Aggregate	Aggregate	Plug-in Hybrid	12068166.98	191.2925264	
Los Angeles	2025	LDT2	Aggregate	Aggregate	Plug-in Hybrid	279387949.9	4648.664541	
Los Angeles	2025	MDV	Aggregate	Aggregate	Plug-in Hybrid	153862705.2	2623.622748	

Total VMT	Diesel VMT	Gasoline VMT	Average Diesel MPG*	Average Gasoline MPG*
99,395,210,266	4,660,067,360	88,615,908,512	12	26
Percent of Total	4.69	89.16		

* weighted by percentage of VMT for each vehicle category

Construction Transportation Energy Worksheet

Emission Source	Emissions (MTCO ₂) ¹	
	Diesel-Powered	Gasoline-Powered
Demolition (2024)		
Off-Road	74.2	--
Worker	--	3.28
Vendor	0	--
Hauling	91.6	--
Grading (2024)		
Off-Road	30.7	--
Worker	--	1.87
Vendor	0	--
Hauling	0	--
Building Construction (2024)		
Off-Road	43.6	--
Worker	--	11.8
Vendor	11.3	--
Hauling	0	--
Building Construction (2025)		
Off-Road	188	--
Worker	--	49.8
Vendor	47.8	--
Hauling	0	--
Paving (2025)		
Off-Road	3.44	--
Worker	--	0.46
Vendor	0	--
Hauling	0	--
Architectural Coating (2025)		
Off-Road	4.05	--
Worker	--	3.17
Vendor	0	--
Hauling	0	--
<i>Total Emissions in MTCO₂</i>		
	494.69	70.38
<i>Total Emissions in pounds CO₂</i> ²		
	1,090,791.45	155,587.9
Total Fuel Consumption ³		
	48,480 gallons	8,020 gallons
<p>MTCO₂ = metric tons of carbon dioxide</p> <p>1 MTCO₂ emissions for each phase of construction taken from the CalEEMod Detailed Report prepared for the Project's Air Quality and Greenhouse Gas Emissions analyses.</p> <p>2 1 MT of CO₂ = 2,205 pounds of CO₂.</p> <p>3 Diesel fuel has a CO₂ factor of 22.5 pounds of CO₂ per 1 gallon of diesel fuel. Gasoline has a CO₂ factor of 19.4 pounds of CO₂ per 1 gallon of gasoline. Source: U.S. Energy Information Administration, Environment Carbon Dioxide Emissions Coefficients, Release date: September 7, 2023. Results have been rounded to nearest whole number.</p>		