

# Appendix F

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## Energy Worksheets

### Construction Transportation Energy Worksheet

Emission Source	Emissions (MTCO <sub>2</sub> ) <sup>1</sup>	
	Diesel-Powered	Gasoline-Powered
<b>Demolition (2023)</b>		
Off-Road	20.5	--
Hauling	0.24	--
Vendor	0	--
Worker	--	1.28
<b>Site Preparation (2023)</b>		
Off-Road	140	--
Hauling	197	--
Vendor	0	--
Worker	--	20.7
<b>Site Preparation (2024)</b>		
Off-Road	93.8	--
Hauling	130	--
Vendor	0	--
Worker	--	13.5
<b>Building Construction (2024)</b>		
Off-Road	190	--
Hauling	0	--
Vendor	223	--
Worker	--	447
<b>Building Construction (2025)</b>		
Off-Road	220	--
Hauling	0	--
Vendor	255	--
Worker	--	509
<b>Architectural Coating (2025)</b>		
Off-Road	6.67	--
Hauling	0	--
Vendor	0	--
Worker	--	27.8
<i>Total Emissions in MTCO<sub>2</sub></i>	<i>1,476.21</i>	<i>1,019.28</i>
<i>Total Emissions in pounds CO<sub>2</sub></i> <sup>2</sup>	<i>3,255,043.05</i>	<i>2,247,512.4</i>
<b>Total Fuel Consumption</b> <sup>3</sup>	<b>147,021 gallons</b>	<b>114,669 gallons</b>
<p>MTCO<sub>2</sub> = metric tons of carbon dioxide</p> <p>1 MTCO<sub>2</sub> emissions for each phase of construction taken from the CalEEMod output sheets prepared for the Project, "Annual" values (see Appendix C of the SCEA).</p> <p>2 1 MT of CO<sub>2</sub> = 2,205 pounds of CO<sub>2</sub>.</p> <p>3 Diesel fuel has a CO<sub>2</sub> factor of 22.14 pounds of CO<sub>2</sub> per 1 gallon of diesel fuel. Gasoline has a CO<sub>2</sub> factor of 19.6 pounds of CO<sub>2</sub> per 1 gallon of gasoline. Source: U.S. Energy Information Administration, Environment Carbon Dioxide Emissions Coefficients, Release date: February 2, 2016. Results have been rounded to the nearest whole number.</p>		

**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	
							Total:	532,570,627	
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	
							Total:	3,536,229,368	
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	
							Total:	3,536,229,368	
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		
							Total:	3,536,229,368	
Los Angeles	2025	LDA	Aggregate	Aggregate	Plug-in Hybri	1611810733	28223.9709		
Los Angeles	2025	LDT1	Aggregate	Aggregate	Plug-in Hybri	12068166.98	191.2925264		
Los Angeles	2025	LDT2	Aggregate	Aggregate	Plug-in Hybri	279387949.9	4648.664541		
Los Angeles	2025	MDV	Aggregate	Aggregate	Plug-in Hybri	153862705.2	2623.622748		
							Total:	3,536,229,368	
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