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Clearwater Specific Plan City of Paramount, California

Appendix E: Energy Consumption Information

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Sheet 1: Energy Consumption Comparison Tables

Table 1: Estimated Operational Change in Vehicle Fuel Consumption (2025 vs. 2045)			
Metric	VMT and Vehicle Fuel Consumption		
	2025	2045 NP	2045 Project
Total VMT (miles/yr)	43,936,055	43,936,055	66,994,106
Total Gasoline VMT	37,542,670	6,963,933	10,618,669
Total Diesel VMT	2,363,313	1,396,284	2,129,066
Total Electric VMT	4,373,931	35,654,566	54,366,414
Gasoline Fuel Efficiency (miles/gal)	29.2	28.2	28.24
Diesel Fuel Efficiency (miles/gal)	4.9	4.5	4.48
Electric Fuel Efficiency (kWh/mile)	2.8	2.2	2.22
Total Gasoline Consumption (Gallons/yr)	1,287,035	246,557	375,952
Total Diesel Consumption (Gallons/yr)	486,142	311,765	475,382
Total Petrol Consumption (Gallons/yr)	1,773,178	558,321	851,334
Total Electricity Consumption (kWh/yr)	1,588,315	16,069,198	24,502,462
Service Population (SP)	321	321	5,741
Gasoline Efficiency (gal / SP)	4,009	768	65
Diesel Efficiency (gal / SP)	1,514	971	83
Electricity Efficiency (kWh / SP)	4,948	50,060	4,268
VMT / SP	136,872	136,872	11,669

Table 2: Estimated Operational Change in Electricity Consumption (2025 vs. 2045)			
Metric	Electricity Consumed (MWh/yr)		
	2025	2045 NP	2045 Project
Building Electricity Consumption (MWh/yr)	2,290	2,290	25,008
Service Population (SP)	321	321	5,741
Electricity Consumption (MWh/yr/SP)	7.14	7.14	4.36

Table 3: Estimated Operational Change in Natural Gas Consumption (2025 vs. 2045)			
Metric	Natural Gas Consumed (MMBtu/yr)		
	2025	2045 NP	2045 Project
Total Natural Gas Consumption (MMBtu/yr)	3,818,270	3,818,270	48,293,310
Service Population (SP)	321	321	5,741
Natural Gas Consumption (MMBTU/yr/SP)	11,895	11,895	8,412

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Sheet 2: Building Energy Summary Tables

Table 1: 2025 / 2045 No Project Energy Consumption				
Land Use	2025 Existing Conditions		2045 No Project	
	Electricity (kWh)	Natural Gas (kBtu)	Electricity (kWh)	Natural Gas (kBtu)
Movie Theater (No Matinee)	458,916	2,047,645	458,916	2,047,645
Regional Shopping Center	162,593	99,114	162,593	99,114
Unrefrigerated Warehouse-No Rail	405,853	1,671,512	405,853	1,671,512
Parking Lot	381,586	0	381,586	0
Parking Lot	881,463	0	881,463	0
TOTAL	2,290,411	3,818,270	2,290,411	3,818,270

Table 2: 2045 With Project Energy Consumption		
Land Use	Electricity (kWh)	Natural Gas (kBtu)
Condo/Townhouse	918,433	4,806,072
Apartments Mid Rise	6,598,501	19,992,317
Regional Shopping Center	1,767,846	1,077,650
Research & Development	14,256,229	20,277,174
Movie Theater (No Matinee)	479,637	2,140,097
Enclosed Parking with Elevator	803,994	0
Parking Lot	183,161	0
TOTAL	25,007,801	48,293,310

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Sheet 2: Average Fuel Efficiency - Los Angeles County

Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	90.7	1,396,695.1	68.2	20.5
LDA	3,116,789.7	30,622,948,642.0	1,007,282.1	30.4
LDT1	307,748.2	3,102,203,558.9	118,196.2	26.2
LDT2	1,640,217.5	19,389,763,865.0	669,012.5	29.0
LHDT1	119,300.1	1,261,498,394.8	62,423.7	20.2
LHDT2	22,243.1	261,652,030.8	12,965.6	20.2
MCY	147,266.0	293,854,087.1	2,887.1	101.8
MDV	981,995.3	11,408,524,158.4	395,371.4	28.9
MH	18,480.0	53,753,238.8	2,647.3	20.3
MHDT	18,687.8	282,917,171.9	14,019.6	20.2
OBUS	3,823.0	38,227,966.4	1,895.0	20.2
SBUS	1,505.3	18,899,592.3	931.4	20.3
UBUS	410.6	8,228,895.1	408.2	20.2
TOTAL	6,378,557.3	66,743,868,296.7	2,288,108.4	29.2

Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	44,186.1	1,786,754,519.4	425,235.5	4.2
LDA	7,416.4	59,933,752.7	204.8	292.6
LDT1	140.5	1,049,514.1	3.6	292.6
LDT2	2,771.1	32,555,625.5	111.2	292.6
LHDT1	47,071.5	523,591,911.8	101,214.0	5.2
LHDT2	35,735.0	514,152,756.6	114,763.7	4.5
MCY	0.0	0.0	0.0	0.0
MDV	21,921.3	304,647,879.9	1,041.0	292.6
MH	6,471.6	19,628,420.4	3,595.2	5.5
MHDT	60,806.7	700,240,222.3	165,093.2	4.2
OBUS	1,806.1	33,973,180.4	7,520.0	4.5
SBUS	1,557.9	10,096,050.9	1,264.3	8.0
UBUS	18.6	465,824.4	113.0	4.1
TOTAL	229,902.8	3,987,089,658.3	820,159.6	4.9

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/Year)	Miles Per kWh
HHDT	498.3	15,508,454.1	27,541,579.5	0.6
LDA	491,145.1	6,190,253,433.1	2,077,777,385.1	3.0
LDT1	2,504.3	33,854,257.0	12,882,573.1	2.6
LDT2	51,448.3	654,287,210.5	283,183,710.0	2.3
LHDT1	869.5	15,759,308.2	8,817,668.4	1.8
LHDT2	789.3	15,051,849.5	8,421,830.7	1.8
MCY	0.0	0.0	0.0	0.0
MDV	32,599.1	429,775,095.1	222,274,665.6	1.9
MH	0.0	0.0	0.0	0.0
MHDT	664.4	11,694,544.8	14,532,153.6	0.8

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/Year)	Miles Per kWh
HHDT	37,013.3	1,357,883,343.3	2,424,020,197.9	0.6
LDA	2,437,349.6	26,117,285,997.6	8,719,879,266.8	3.0
LDT1	162,094.0	1,911,222,820.0	715,040,864.2	2.7
LDT2	1,466,110.1	17,112,703,559.8	7,151,129,430.5	2.4
LHDT1	95,354.4	1,195,265,734.4	671,133,883.6	1.8
LHDT2	83,484.0	1,073,651,850.3	602,848,482.2	1.8
MCY	0.0	0.0	0.0	0.0
MDV	784,699.8	8,778,858,662.6	4,659,994,833.1	1.9
MH	0.0	0.0	0.0	0.0
MHDT	70,512.4	908,698,102.6	1,132,807,641.5	0.8

OBUS	146.2	3,207,451.0	4,014,821.3	0.8
SBUS	58.2	616,059.1	846,632.5	0.7
UBUS	322.6	9,149,735.3	19,316,337.0	0.5
TOTAL	581,045.2	7,379,157,397.6	2,679,609,356.8	2.8

OBUS	1,487.8	26,093,972.0	32,643,138.8	0.8
SBUS	1,871.2	20,094,609.2	27,615,451.3	0.7
UBUS	4,872.0	138,721,569.8	291,633,053.7	0.5
TOTAL	5,144,848.7	58,640,480,221.5	26,428,746,243.6	2.2

Table 5: 2045 Los Angeles County Average Vehicle Fuel Efficiency (Gasoline)				
Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	35.5	221,109.3	11.0	20.2
LDA	578,098.2	2,809,359,400.1	98,150.5	28.6
LDT1	86,979.1	606,449,302.2	20,728.0	29.3
LDT2	503,604.3	3,390,521,847.1	120,269.3	28.2
LHDT1	54,906.1	385,791,480.3	19,136.8	20.2
LHDT2	14,717.0	108,534,305.9	5,383.7	20.2
MCY	198,020.4	347,315,051.4	3,513.5	98.9
MDV	602,457.0	3,630,878,160.7	129,664.1	28.0
MH	19,844.3	55,225,714.6	2,739.4	20.2
MHDT	10,657.2	101,769,852.8	5,048.2	20.2
OBUS	1,129.4	4,446,964.8	220.6	20.2
SBUS	1,093.4	12,840,901.8	637.0	20.2
UBUS	11.1	111,907.9	5.6	20.2
TOTAL	2,071,553.0	11,453,465,999.0	405,507.7	28.2

Table 6: 2045 Los Angeles County Average Vehicle Fuel Efficiency (Diesel)				
Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	22,179.7	1,183,978,786.9	287,096.5	4.1
LDA	312.2	1,760,280.0	6.0	292.6
LDT1	0.4	2,566.6	0.0	292.6
LDT2	852.0	6,503,341.1	22.2	292.6
LHDT1	27,753.2	198,513,629.4	45,174.0	4.4
LHDT2	42,148.3	316,028,110.1	75,524.8	4.2
MCY	0.0	0.0	0.0	0.0
MDV	17,888.8	147,190,767.9	503.0	292.6
MH	7,773.2	21,504,479.4	5,118.3	4.2
MHDT	26,343.1	259,720,943.4	62,940.6	4.1
OBUS	1,477.9	28,421,939.5	6,652.1	4.3
SBUS	525.1	3,338,623.7	806.1	4.1
UBUS	0.0	0.0	0.0	0.0
TOTAL	147,254.0	2,166,963,468.0	483,843.7	4.5

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Sheet 3: Raw EMFAC Output - Los Angeles County 2025

Source: EMFAC2025 (v2.0.0) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for Combustion VMT and Electric VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, kWh/year for Energy Consumption, kg/year for Hydrogen Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	Hydrogen	NOx_RUNI	NOx_IDLE	NOx_STRE	NOx_TOTE	PM2.5_RU	PM2.5_IDI	PM2.5_STI	PM2.5_TO	PM2.5_PN	PM2.5_PV	PM2.5_TO	PM10_RUI		
Los Angele	2025	HHDT	Aggregate	Aggregate	Gasoline	90.69201	1396695	1396695		0	593363	0	0	12.95667	0	0.60676	13.56343	0.002773	0	0.000866	0.003639	0.007698	0.052935	0.064273	0.003016	
Los Angele	2025	HHDT	Aggregate	Aggregate	Diesel	44186.07	1.79E+09	1.79E+09		0	2.25E+08	0	0	2825.612	780.9165	735.1	4341.628	33.47308	0.425708	0	33.98979	17.40629	55.36609	106.6712	34.98658	
Los Angele	2025	HHDT	Aggregate	Aggregate	Electricity	498.2842	15508454	0	15508454	1811192	27541579	0	0	0	0	0	0	0	0	0	0	0.150197	0.23943	0.389627	0	
Los Angele	2025	HHDT	Aggregate	Aggregate	Natural Ga	4653.042	1.1E+08	1.1E+08		0	10855787	0	0	92.5412	17.20934	0	109.7505	0.15027	0.039302	0	0.189572	1.09464	5.816347	7.100559	0.163432	
Los Angele	2025	HHDT	Aggregate	Aggregate	Fuel Cell El	12.33357	448560.3	0	448560.3	60480.65	0	54672.3	0	0	0	0	0	0	0	0	0	0.00445	0.00704	0.01149	0	
Los Angele	2025	LDA	Aggregate	Aggregate	Gasoline	3028801	3E+10	3E+10		0	4.61E+09	0	0	2365.854	0	1029.11	3394.964	95.49247	0	10.42779	105.9203	66.17581	87.67851	259.7746	103.6519	
Los Angele	2025	LDA	Aggregate	Aggregate	Diesel	7416.393	59933753	59933753		0	10139878	0	0	31.42081	0	0	31.42081	4.665271	0	0	4.665271	0.132131	0.180086	4.977488	4.876214	
Los Angele	2025	LDA	Aggregate	Aggregate	Electricity	403156.2	5.61E+09	0	5.61E+09	6.99E+08	1.86E+09	0	0	0	0	0	0	0	0	0	0	0	14.21321	5.475	19.68821	0
Los Angele	2025	LDA	Aggregate	Aggregate	Plug-in Hyl	87988.99	1.19E+09	6.06E+08	5.84E+08	1.25E+08	2.14E+08	0	6.214765	0	13.91307	20.12784	1.757198	0	0.272266	2.029464	3.017715	1.436512	6.483691	1.911113		
Los Angele	2025	LDT1	Aggregate	Aggregate	Gasoline	307219.5	3.1E+09	3.1E+09		0	4.41E+08	0	0	883.4549	0	193.0161	1076.471	13.58859	0	1.508566	15.09716	6.82915	11.63058	33.55689	14.7627	
Los Angele	2025	LDT1	Aggregate	Aggregate	Diesel	140.4615	1049514	1049514		0	133630.4	0	0	1.809363	0	0	1.809363	0.348214	0	0.348214	0.002314	0.004472	0.355001	0.363959		
Los Angele	2025	LDT1	Aggregate	Aggregate	Electricity	1975.588	29690699	0	29690699	3325069	11098018	0	0	0	0	0	0	0	0	0	0	0.075275	0.028994	0.104269	0	
Los Angele	2025	LDT1	Aggregate	Aggregate	Plug-in Hyl	528.6677	8716762	4553204	4163558	747934.1	1784555	0	0.046666	0	0.08283	0.129496	0.010252	0	0.001249	0.011501	0.0221	0.010505	0.044106	0.01115		
Los Angele	2025	LDT2	Aggregate	Aggregate	Gasoline	1619753	1.92E+10	1.92E+10		0	2.72E+09	0	0	1879.582	0	829.7997	2709.382	54.30876	0	5.613214	59.92197	42.36387	67.92559	170.2114	59.02781	
Los Angele	2025	LDT2	Aggregate	Aggregate	Diesel	2771.137	32555625	32555625		0	4713021	0	0	2.943969	0	0	2.943969	0.361776	0	0	0.361776	0.071773	0.116634	0.550183	0.378134	
Los Angele	2025	LDT2	Aggregate	Aggregate	Electricity	30983.86	4.98E+08	0	4.98E+08	57663752	2.07E+08	0	0	0	0	0	0	0	0	0	0	1.263099	0.48577	1.748869	0	
Los Angele	2025	LDT2	Aggregate	Aggregate	Plug-in Hyl	20464.4	3.3E+08	1.74E+08	1.56E+08	30293991	76332684	0	1.781521	0	3.394571	5.176092	0.384135	0	0.050172	0.434306	0.836451	0.398126	1.668883	0.417782		
Los Angele	2025	LHDT1	Aggregate	Aggregate	Gasoline	119300.1	1.26E+09	1.26E+09		0	5.61E+08	0	0	283.3247	1.504275	366.8642	651.6932	1.618118	0	0.189121	1.807239	2.781128	37.9624	42.55076	1.759851	
Los Angele	2025	LHDT1	Aggregate	Aggregate	Diesel	47071.54	5.24E+08	5.24E+08		0	1.87E+08	0	0	868.9251	33.11446	0	902.0396	13.48547	0.441511	0	13.92698	1.731484	15.7565	31.41497	14.09523	
Los Angele	2025	LHDT1	Aggregate	Aggregate	Electricity	869.4503	15759308	0	15759308	3758868	8817668	0	0	0	0	0	0	0	0	0	0	0	0.034743	0.237123	0.271867	0
Los Angele	2025	LHDT2	Aggregate	Aggregate	Gasoline	22243.13	2.62E+08	2.62E+08		0	1.18E+08	0	0	50.86125	0.291423	77.50917	128.6618	0.311711	0	0.032571	0.344281	0.576844	9.18624	10.10737	0.339014	
Los Angele	2025	LHDT2	Aggregate	Aggregate	Diesel	35735.04	5.14E+08	5.14E+08		0	1.61E+08	0	0	363.5373	19.96634	0	383.5036	7.667468	0.375404	0	8.042872	1.700269	18.05119	27.79433	8.014157	
Los Angele	2025	LHDT2	Aggregate	Aggregate	Electricity	789.2768	15051850	0	15051850	3865876	8421831	0	0	0	0	0	0	0	0	0	0	0	0.033184	0.264225	0.297408	0
Los Angele	2025	MCY	Aggregate	Aggregate	Gasoline	147266	2.94E+08	2.94E+08		0	97855102	0	0	174.6343	0	12.85898	187.4933	0.865579	0	0.355838	1.221416	0.323919	1.360458	2.905794	0.926706	
Los Angele	2025	MDV	Aggregate	Aggregate	Gasoline	971247.6	1.13E+10	1.13E+10		0	1.54E+09	0	0	1883.889	0	679.4434	2563.332	32.80795	0	3.411948	36.21989	24.95427	41.17473	102.3489	35.66495	
Los Angele	2025	MDV	Aggregate	Aggregate	Diesel	21921.31	3.05E+08	3.05E+08		0	37262759	0	0	16.58479	0	0	16.58479	1.412799	0	0	1.412799	0.671634	1.032039	3.116472	1.47668	
Los Angele	2025	MDV	Aggregate	Aggregate	Electricity	21851.36	3.5E+08	0	3.5E+08	38877652	1.73E+08	0	0	0	0	0	0	0	0	0	0	0	0.887146	0.341286	1.228432	0
Los Angele	2025	MDV	Aggregate	Aggregate	Plug-in Hyl	10747.77	1.69E+08	89457953	79859718	15449332	48796312	0	0.917072	0	1.718274	2.635346	0.221667	0	0.029216	0.250883	0.429274	0.204586	0.884743	0.241083		
Los Angele	2025	MH	Aggregate	Aggregate	Gasoline	18480.04	53753239	53753239		0	643391.7	0	0	29.95484	0	0.286554	30.24139	0.091749	0	0.000304	0.092053	0.177758	0.901591	1.171402	0.099785	
Los Angele	2025	MH	Aggregate	Aggregate	Diesel	6471.551	19628420	19628420		0	225220.1	0	0	70.7412	0	0	70.7412	1.636801	0	0	1.636801	0.086547	0.327266	2.050613	1.710809	
Los Angele	2025	MHDT	Aggregate	Aggregate	Gasoline	18687.77	2.83E+08	2.83E+08		0	1.22E+08	0	0	123.9993	0.590415	56.90676	181.4965	0.313637	0	0.069944	0.383581	0.935588	4.749933	6.069103	0.341109	
Los Angele	2025	MHDT	Aggregate	Aggregate	Diesel	60806.66	7E+08	7E+08		0	2.35E+08	0	0	537.7983	190.4862	379.9571	1108.242	4.414516	0.186808	0	4.601323	2.315648	11.78211	18.69908	4.614121	
Los Angele	2025	MHDT	Aggregate	Aggregate	Electricity	664.3624	11694545	0	11694545	2940988	14532154	0	0	0	0	0	0	0	0	0	0	0	0.038673	0.09835	0.137023	0
Los Angele	2025	MHDT	Aggregate	Aggregate	Natural Ga	570.3456	7567196	7567196		0	1677142	0	0	0.975979	1.279839	0	2.255818	0.00689	0.003235	0	0.010125	0.025024	0.12695	0.162099	0.007493	
Los Angele	2025	MHDT	Aggregate	Aggregate	Fuel Cell El	1.994113	44217.1	0	44217.1	7619.481	0	3855.234	0	0	0	0	0	0	0	0	0	0	0.000146	0.000371	0.000517	0
Los Angele	2025	OBUS	Aggregate	Aggregate	Gasoline	3822.967	38227966	38227966		0	11130431	0	0	21.81164	0.039662	4.728453	26.57975	0.03315	0	0.003397	0.036547	0.126417	0.649949	0.812913	0.036054	
Los Angele	2025	OBUS	Aggregate	Aggregate	Diesel	1806.101	33973180	33973180		0	6539786	0	0	66.38443	5.248733	12.30461	83.93777	1.197628	0.008545	0	1.206173	0.112347	0.780061	2.098582	1.251779	
Los Angele	2025	OBUS	Aggregate	Aggregate	Electricity	146.2153	3207451	0	3207451	425535.4	4014821	0	0	0	0	0	0	0	0	0	0	0	0.010607	0.02728	0.037887	0
Los Angele	2025	OBUS	Aggregate	Aggregate	Natural Ga	443.6231	7740696	7740696		0	1291076	0	0	0	0.246921	0	0.246921	0	0.000598	0	0.000598	0.025598	0.131687	0.157883	0	
Los Angele	2025	SBUS	Aggregate	Aggregate	Gasoline	1505.287	18899592	18899592		0	1968916	0	0	10.28645	0.48998	1.448238	12.22467	0.03076	0	0.001409	0.032169	0.041666	0.341577	0.415412	0.033454	
Los Angele	2025	SBUS	Aggregate	Aggregate	Diesel	1557.938	10096051	10096051		0	7376772	0	0	74.46191	15.66378	3.122684	93.24838	0.317289	0.01339	0	0.330679	0.033387	0.182468	0.546534	0.331636	
Los Angele	2025	SBUS	Aggregate	Aggregate	Electricity	58.18007	616059.1	0	616059.1	234043.6	846632.5	0	0	0	0	0	0	0	0	0	0	0	0.001872	0.005567	0.007439	0
Los Angele	2025	SBUS	Aggregate	Aggregate	Natural Ga	1474.032	12075930	12075930		0	6979481	<														

PM10_IDL	PM10_STR	PM10_TOI	PM10_PM	PM10_PM	PM10_TOI	CO2_RUNI	CO2_IDLE	CO2_STRE	CO2_TOTE	CH4_RUNI	CH4_IDLE	CH4_STRE	CH4_TOTE	N2O_RUNI	N2O_IDLE	N2O_STRE	N2O_TOTE	ROG_RUN	ROG_IDLE	ROG_STRE	ROG_TOTE	ROG_DIUF	ROG_HOT	ROG_RUNI
0	0.000942	0.003958	0.030792	0.151244	0.185994	3351.077	0	36.46988	3387.547	0.273272	0	7.41E-06	0.273279	0.355799	0	0.018748	0.374548	1.522193	0	3.15E-05	1.522224	0.260632	0.068014	0.588877
0.444957	0	35.43154	69.62516	158.1888	263.2455	3035502	215335.2	0	3250838	1.195967	4.378767	0	5.574735	773.623	0	0	773.623	25.74885	94.27366	0	120.0225	0	0	0
0	0	0	0.600787	0.684085	1.284872	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.042744	0	0.206176	4.378558	16.61814	21.20287	140193.5	13840.88	0	154034.4	344.2407	65.11253	0	409.3532	46.73211	0	0	46.73211	2.604449	0.594723	0	3.199172	0	0	0
0	0	0	0.0178	0.020115	0.037915	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	11.33038	114.9822	264.7032	250.51	630.1955	10837174	0	359824.5	11196998	257.2903	0	270.4179	527.7082	224.9444	0	94.43423	319.3787	1208.103	0	1556.512	2764.615	2537.996	1107.109	1374.202
0	0	4.876214	0.528525	0.514531	5.91927	20098.39	0	0	20098.39	0.335578	0	0	0.335578	19.42975	0	0	19.42975	7.224805	0	0	7.224805	0	0	0
0	0	0	56.85282	15.64286	72.49568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.296114	2.207227	12.07086	4.10432	18.38241	217282.6	0	8976.926	226259.6	1.07167	0	4.001328	5.072998	1.537515	0	3.424492	4.962007	2.701807	0	20.17591	22.87772	16.0332	5.851358	5.365025
0	1.639861	16.40256	27.3166	33.23023	76.94939	1322308	0	43306.86	1365614	57.06563	0	45.93574	103.0014	57.74512	0	13.7806	71.52572	258.9276	0	296.9238	555.8514	462.6024	152.4651	305.0783
0	0	0.363959	0.009255	0.012778	0.385993	567.5922	0	0	567.5922	0.020703	0	0	0.020703	0.05793	0	0	0.05793	0.445731	0	0	0.445731	0	0	0
0	0	0	0.301101	0.082841	0.383942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.001358	0.012508	0.088399	0.030015	0.130922	1634.114	0	59.45544	1693.57	0.00805	0	0.023832	0.031882	0.011547	0	0.018785	0.030331	0.020296	0	0.120139	0.140435	0.063535	0.020446	0.02145
0	6.102773	65.13058	169.4555	194.0731	428.6592	8235253	0	255606.7	8490859	141.5448	0	170.4627	312.0075	160.2785	0	64.29692	224.5754	552.0553	0	993.2705	1545.326	1055.94	345.8258	717.5496
0	0	0.378134	0.287091	0.333239	0.998465	13181.75	0	0	13181.75	0.061736	0	0	0.061736	13.75764	0	0	13.75764	1.32915	0	0	1.32915	0	0	0
0	0	0	5.052395	1.387914	6.440309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.054566	0.472348	3.345803	1.137501	4.955652	62369.59	0	2546.417	64916.01	0.30735	0	0.973554	1.280904	0.440813	0	0.803823	1.244636	0.774862	0	4.913219	5.688081	2.522037	0.828743	0.883603
0	0.205686	1.965537	11.12451	108.464	121.554	872086.2	4929.599	15399.3	892415.1	10.83835	2.270889	21.50577	34.61501	21.03604	0.081188	25.36154	46.47877	48.21676	17.23341	112.0862	177.5364	132.4021	32.43802	173.5604
0.461474	0	14.5567	6.925935	45.01858	66.50122	286472.8	2145.378	0	288618.1	2.588793	0.083485	0	2.672278	184.4713	0	0	184.4713	55.73518	1.797383	0	57.53256	0	0	0
0	0	0	0.138973	0.677495	0.816468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.035423	0.374437	2.307376	26.2464	28.92821	195700.3	1185.084	3196.125	200081.5	1.787343	0.443775	4.814129	7.045246	4.15628	0.016044	5.412586	9.58491	7.31507	3.340072	25.20421	35.85935	21.57116	5.234786	31.86437
0.392378	0	8.406535	6.801077	51.57483	66.78244	320145	2789.344	0	322934.3	1.819168	0.071804	0	1.890972	208.9175	0	0	208.9175	39.16562	1.545905	0	40.71152	0	0	0
0	0	0	0.132735	0.754928	0.887663	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.379244	1.30595	1.295675	3.887024	6.488649	68154.32	0	4815.305	72969.63	65.86467	0	18.60114	84.46581	12.59027	0	1.362487	13.95276	426.2428	0	125.907	552.1498	224.1729	406.5043	401.5383
0	3.709904	39.37486	99.81708	117.6421	256.834	5958742	0	179457.8	6138200	124.4341	0	130.8809	255.315	137.2583	0	45.21773	182.476	505.8733	0	826.6339	1332.507	781.3684	222.6595	544.2629
0	0	1.47668	2.686534	2.948682	7.111897	148371	0	0	148371	0.242491	0	0	0.242491	130.4148	0	0	130.4148	5.220689	0	0	5.220689	0	0	0
0	0	0	3.548584	0.975102	4.523686	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.031775	0.272858	1.717095	0.584533	2.574486	32089	0	1602.612	33691.61	0.15817	0	0.493838	0.652008	0.226896	0	0.42321	0.650106	0.398766	0	2.490568	2.889333	1.399219	0.483202	0.472645
0	0.000331	0.100116	0.711034	2.575973	3.387123	105037.3	0	22.27228	105059.6	1.044621	0	0.020979	1.0656	1.710129	0	0.022549	1.732678	4.820179	0	0.107195	4.927373	30.71012	7.986664	0.197811
0	0	1.710809	0.346186	0.935046	2.992042	22030.97	0	0	22030.97	0.063415	0	0	0.063415	6.544942	0	0	6.544942	1.365289	0	0	1.365289	0	0	0
0	0.076071	0.417179	3.742354	13.57124	17.73077	503950.1	3619.423	6124.803	513694.3	3.950225	0.838689	6.150419	10.93933	7.171223	0.027869	4.421106	11.6202	17.53022	6.748706	33.56905	57.84798	20.64933	4.860369	39.21859
0.195254	0	4.809375	9.262593	33.66316	47.73513	844006.1	44937.01	0	888943.2	0.385107	0.188837	0	0.573944	300.3608	0	0	300.3608	8.291244	4.065607	0	12.35685	0	0	0
0	0	0	0.154692	0.280999	0.435691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.003518	0	0.011011	0.100097	0.362714	0.473823	6847.644	983.4814	0	7831.126	7.195325	6.64	0	13.83533	3.214941	0	0	3.214941	0.062979	0.050453	0	0.113432	0	0	0
0	0	0	0.000585	0.001061	0.001646	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.003694	0.039748	0.505669	1.856996	2.402413	71949.12	234.5624	388.0631	72571.74	0.590756	0.059008	0.441739	1.091504	1.158144	0.002055	0.376941	1.53714	2.620448	0.455997	2.339222	5.415667	5.006819	1.167335	2.304876
0.008932	0	1.260711	0.449388	2.228747	3.938846	49536.82	1432.864	0	50969.68	0.14766	0.022603	0	0.170263	13.77681	0	0	13.77681	3.179074	0.486645	0	3.665718	0	0	0
0	0	0	0.042427	0.077942	0.12037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00065	0	0.00065	0.102392	0.376249	0.479291	0	187.1339	0	187.1339	0	1.341265	0	1.341265	0	0	0	0	0	0.009871	0	0.009871	0	0	0
0	0.001533	0.034987	0.166666	0.975933	1.177586	18154.19	1370.695	118.3381	19643.23	0.486693	0.742614	0.139143	1.368451	0.579664	0.025466	0.09703	0.702159	2.556019	5.741272	0.837169	9.13446	1.195693	0.295875	0.82522
0.013995	0	0.345631	0.133548	0.521338	1.000517	14082.19	1282.29	0	15364.48	0.065054	0.004316	0	0.06937	2.348413	0	0	2.348413	1.400601	0.092295	0	1.493526	0	0	0
0	0	0	0.007486	0.015906	0.023392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.006759	0	0.066432	0.159737	0.623574	0.849744	22241.27	2132.242	0	24373.51	129.7472	16.42368	0	146.1709	5.10138	0	0	5.10138	0.896328	0.11449	0	1.010818	0	0	0
0	0.000539	0.016268	0.108434	0.995814	1.120516	20743.98	0	71.1241	20815.1	0.063677	0	0.060218	0.123894	0.234737	0	0.036673	0.27141	0.197276	0	0.363227	0.560503	0.091083	0.029009	0.065731
0	0	0.00274	0.015829	0.056483	0.075051	825.3828	0	0	825.3828	0.00213	0	0	0.00213	0.205393	0	0	0.205393	0.04585	0	0	0.04585	0	0	0
0	0	0	0.342735	0.554722	0.897457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.053315	4.062577	13.68861	17.8045	300919.1	0	0	300919.1	539.2096	0	0	539.2096	49.8524	0	0	49.8524	5.157046	0	0	5.157046	0	0	0

ROG_TOT/	TOG_RUNI	TOG_IDLE/	TOG_STRE	TOG_TOTE	TOG_DIUR	TOG_HOT/	TOG_RUNI	TOG_TOT/	CO_RUNE/	CO_IDLEX	CO_STREX	CO_TOTEX	SOx_RUNE	SOx_IDLEX	SOx_STRE/	SOx_TOTE	NH3_RUNI	Fuel Consumption
2.439747	2.22118	0	3.44E-05	2.221214	0.260632	0.068014	0.588877	3.138737	75.28508	0	3.203724	78.4888	0.014387	0	0.000157	0.014543	0.068164	357.9866
120.0225	29.31311	107.3234	0	136.6365	0	0	0	136.6365	138.9841	1377.109	0	1516.093	9.968155	0.70713	0	10.67528	425.2355	290496.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.199172	186.0321	42.48024	0	228.5123	0	0	0	228.5123	979.1511	121.1532	0	1100.304	0	0	0	0	103.8468	18404.73
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7783.922	1574.17	0	1703.937	3278.107	2537.996	1107.109	1374.202	8297.413	90494.93	0	16720.24	107215.2	46.5264	0	1.544807	48.07121	986.1176	1183268
7.224805	8.22496	0	0	8.22496	0	0	0	8.22496	62.925	0	0	62.925	0.066043	0	0	0.066043	0.204803	1795.999
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.1273	3.942471	0	22.09009	26.03256	16.0332	5.851358	5.365025	53.28214	388.9553	0	171.1991	560.1544	0.932843	0	0.03854	0.971383	21.16452	23910.48
1475.997	362.9698	0	325.0747	688.0444	462.6024	152.4651	305.0783	1608.19	14060.02	0	3030.228	17090.24	5.676961	0	0.185926	5.862887	118.0306	144314.3
0.445731	0.507435	0	0	0.507435	0	0	0	0.507435	2.373058	0	0	2.373058	0.001865	0	0	0.001865	0.003586	50.72025
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.245866	0.029616	0	0.131537	0.161153	0.063535	0.020446	0.02145	0.266584	2.932709	0	1.019293	3.952002	0.007016	0	0.000255	0.007271	0.165629	178.9718
3664.641	770.8022	0	1087.458	1858.26	1055.94	345.8258	717.5496	3977.575	55156.96	0	10016.56	65173.52	35.35577	0	1.097376	36.45315	662.6916	897290.4
1.32915	1.513149	0	0	1.513149	0	0	0	1.513149	12.67474	0	0	12.67474	0.043315	0	0	0.043315	0.111248	1177.926
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.922464	1.130677	0	5.379356	6.510033	2.522037	0.828743	0.883603	10.74442	111.851	0	41.70403	153.555	0.267767	0	0.010932	0.278699	6.320895	6860.143
515.937	70.35778	25.14695	122.7203	218.2251	132.4021	32.43802	173.5604	556.6256	2029.846	155.8206	1497.034	3682.701	3.74406	0.021164	0.066113	3.831337	62.42366	94307.94
57.53256	63.4508	2.046201	0	65.497	0	0	0	65.497	221.3235	14.89764	0	236.2212	0.941342	0.00705	0	0.948392	101.214	25791.02
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94.52967	10.67413	4.873826	27.59544	43.1434	21.57116	5.234786	31.86437	101.8137	417.9613	32.96732	343.8633	794.7919	0.840185	0.005088	0.013722	0.858994	12.96558	21144.05
40.71152	44.58745	1.75991	0	46.34736	0	0	0	46.34736	84.66148	12.81326	0	97.47474	1.051988	0.009166	0	1.061154	114.7637	28857.53
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1584.365	518.4576	0	136.9163	655.3739	224.1729	406.5043	401.5383	1687.59	4073.959	0	784.6255	4858.585	0.292602	0	0.020673	0.313275	2.887097	7711.227
2880.798	722.9914	0	905.0397	1628.031	781.3684	222.6595	544.2629	3176.322	38139.6	0	6619.756	44759.36	25.58221	0	0.770452	26.35266	392.1173	648667.9
5.220689	5.943408	0	0	5.943408	0	0	0	5.943408	109.4947	0	0	109.4947	0.487543	0	0	0.487543	1.041032	13258.49
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.244399	0.581878	0	2.726858	3.308736	1.399219	0.483202	0.472645	5.663801	57.52115	0	21.13474	78.65588	0.137765	0	0.00688	0.144646	3.254146	3560.435
43.82196	7.033593	0	0.117365	7.150958	30.71012	7.986664	0.197811	46.04555	145.5647	0	2.412498	147.9772	0.450949	0	9.56E-05	0.451044	2.647271	11102.4
1.365289	1.55429	0	0	1.55429	0	0	0	1.55429	5.55229	0	0	5.55229	0.072393	0	0	0.072393	3.595185	1968.696
122.5763	25.58006	9.847696	36.75388	72.18164	20.64933	4.860369	39.21859	136.9099	453.1089	96.64675	716.6627	1266.418	2.16357	0.015539	0.026295	2.205404	14.01965	54285.79
12.35685	9.43895	4.628384	0	14.06733	0	0	0	14.06733	42.82605	149.7495	0	192.5755	2.771595	0.147567	0	2.919162	165.0932	79436.29
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.113432	4.498498	3.603766	0	8.102264	0	0	0	8.102264	19.756	6.096339	0	25.85234	0	0	0	0	8.841887	935.6989
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.8947	3.823752	0.66539	2.561153	7.050295	5.006819	1.167335	2.304876	15.52932	66.00001	3.531259	47.68945	117.2207	0.308894	0.001007	0.001666	0.311567	1.895018	7669.18
3.665718	3.619133	0.554008	0	4.173141	0	0	0	4.173141	11.00761	7.518739	0	18.52635	0.162672	0.004705	0	0.167377	7.520027	4554.67
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.009871	0	0.705037	0	0.705037	0	0	0	0.705037	0	1.117795	0	1.117795	0	0	0	0	9.044613	22.35962
11.45125	3.729737	8.377651	0.916595	13.02398	1.195693	0.295875	0.82522	15.34077	48.45788	44.42679	19.20072	112.0854	0.07794	0.005885	0.000508	0.084333	0.931435	2075.842
1.493526	1.594478	0.105788	0	1.700265	0	0	0	1.700265	3.448927	2.025102	0	5.474029	0.046244	0.004211	0	0.050455	1.264307	1372.976
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.010818	64.02343	8.177845	0	72.20127	0	0	0	72.20127	217.3164	11.42938	0	228.7457	0	0	0	0	14.11012	2912.259
0.746326	0.287865	0	0.397687	0.685552	0.091083	0.029009	0.065731	0.871376	3.563565	0	5.717125	9.280689	0.20552	0	0.000705	0.206224	0.408186	2199.682
0.04585	0.052197	0	0	0.052197	0	0	0	0.052197	0.057648	0	0	0.057648	0.007824	0	0	0.007824	0.112966	73.75651
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.157046	364.0329	0	0	364.0329	0	0	0	364.0329	4954.334	0	0	4954.334	0	0	0	0	120.8921	35955.2

Compton 2045 General Plan Update
City of Compton, California
Appendix E: Energy Consumption Information

Sheet 4: Raw EMFAC Output - Los Angeles County 2045

Source: EMFAC2025 (v2.0.0) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2045

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for Combustion VMT and Electric VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, kWh/year for Energy Consumption, kg/year for Hydrogen Consumption

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Consum	Hydrogen	NOX_RUNE	NOX_IDLE	NOX_STRE	NOX_TOTE	PM2.5_RU	PM2.5_IDL	PM2.5_STI	PM2.5_TO	PM2.5_PV	PM2.5_PV	PM2.5_TO	PM10_RUI	PM10_IDL	PM10_STR	
Los Angele	2045	HHDT	Aggregate	Aggregate	Gasoline	35.54231	221109.3	221109.3	0	232539.7	0	0	0.984416	0	0.003386	0.987803	0.000169	0	6.96E-05	0.000238	0.001219	0.008128	0.009585	0.000183	0	7.56E-05	
Los Angele	2045	HHDT	Aggregate	Aggregate	Diesel	22179.71	1.18E+09	1.18E+09	0	1.37E+08	0	0	534.8773	111.4397	111.4767	757.7937	15.64786	0.163747	0	15.81161	11.66191	39.5163	66.98982	16.35539	0.171151	0	
Los Angele	2045	HHDT	Aggregate	Aggregate	Electricity	37013.27	1.36E+09	0	1357883343	1.71E+08	2424020198	0	0	0	0	0	0	0	0	0	13.11672	23.0262	36.14292	0	0	0	
Los Angele	2045	HHDT	Aggregate	Aggregate	Natural Gas	1063.552	25499183	25499183	0	2647924	0	0	12.10589	2.925998	0	15.03189	0.036382	0.01088	0	0.047262	0.252972	1.463429	1.763663	0.039569	0.011833	0	
Los Angele	2045	HHDT	Aggregate	Aggregate	Fuel Cell El	13612.85	6.23E+08	0	622689815	78435828	0	75995467	0	0	0	0	0	0	0	0	6.138257	10.49658	16.63484	0	0	0	
Los Angele	2045	LDA	Aggregate	Aggregate	Gasoline	446205.3	2.46E+09	2.46E+09	0	5.15E+08	0	0	196.8981	0	75.65962	272.5577	6.52085	0	0.861279	7.382129	5.433579	7.552661	20.36837	7.071149	0	0.935501	
Los Angele	2045	LDA	Aggregate	Aggregate	Diesel	312.1796	1760280	1760280	0	371397.4	0	0	0.527742	0	0	0.527742	0.027771	0	0	0.027771	0.003881	0.005437	0.037089	0.029027	0	0	
Los Angele	2045	LDA	Aggregate	Aggregate	Electricity	2305457	2.5E+10	0	2.4992E+10	3.93E+09	8306979819	0	0	0	0	0	0	0	0	0	0	63.36366	24.54532	87.90898	0	0	
Los Angele	2045	LDA	Aggregate	Aggregate	Plug-in HyL	131892.9	1.47E+09	3.45E+08	1124873948	1.2E+08	412899447.9	0	3.535255	0	6.203123	9.738378	0.424404	0	0.109995	0.534399	3.72591	1.727707	5.988015	0.461579	0	0.119629	
Los Angele	2045	LDA	Aggregate	Aggregate	Fuel Cell El	13635.67	1.47E+08	0	146820092	23223707	0	2247361	0	0	0	0	0	0	0	0	0	0.372235	0.144223	0.516459	0	0	
Los Angele	2045	LDT1	Aggregate	Aggregate	Gasoline	85542.57	6.02E+08	6.02E+08	0	1.12E+08	0	0	41.51643	0	18.9115	60.42794	1.497298	0	0.189004	1.686302	1.326174	2.514412	5.526888	1.62676	0	0.205457	
Los Angele	2045	LDT1	Aggregate	Aggregate	Diesel	0.360636	2566.618	2566.618	0	358.7303	0	0	0.0047	0	0	0.0047	0.000176	0	0	0.000176	5.66E-06	1.09E-05	0.000193	0.000184	0	0	
Los Angele	2045	LDT1	Aggregate	Aggregate	Electricity	160657.5	1.9E+09	0	1899379965	2.85E+08	709964862.5	0	0	0	0	0	0	0	0	0	0	4.815528	1.866199	6.681728	0	0	
Los Angele	2045	LDT1	Aggregate	Aggregate	Plug-in HyL	1436.496	16749884	4907029	11842854.8	1416293	5076001.617	0	0.050321	0	0.090786	0.141107	0.006186	0	0.001353	0.007539	0.042466	0.019851	0.069856	0.006728	0	0.001471	
Los Angele	2045	LDT1	Aggregate	Aggregate	Fuel Cell El	1961.392	23272712	0	23272712.1	3482250	0	356233.2	0	0	0	0	0	0	0	0	0	0	0.059004	0.022865	0.081868	0	0
Los Angele	2045	LDT2	Aggregate	Aggregate	Gasoline	436765.9	3.16E+09	3.16E+09	0	5.95E+08	0	0	166.622	0	84.23543	250.8575	6.036126	0	0.789182	6.825308	6.963522	13.04373	26.83256	6.560865	0	0.858079	
Los Angele	2045	LDT2	Aggregate	Aggregate	Diesel	852.0374	6503341	6503341	0	1223634	0	0	0.226981	0	0	0.226981	0.022922	0	0	0.022922	0.014337	0.022452	0.059712	0.023958	0	0	
Los Angele	2045	LDT2	Aggregate	Aggregate	Electricity	1399272	1.65E+10	0	1.649E+10	2.37E+09	6846406982	0	0	0	0	0	0	0	0	0	0	41.80636	16.19466	58.00102	0	0	
Los Angele	2045	LDT2	Aggregate	Aggregate	Plug-in HyL	66838.4	8.55E+08	2.32E+08	623098089	60677424	304722449	0	2.378305	0	3.173327	5.551632	0.265616	0	0.051735	0.317351	2.167745	1.008087	3.493183	0.288882	0	0.056266	
Los Angele	2045	LDT2	Aggregate	Aggregate	Fuel Cell El	52099.68	6.16E+08	0	615828768	88440847	0	9426431	0	0	0	0	0	0	0	0	0	1.561321	0.604794	2.166115	0	0	
Los Angele	2045	LHDT1	Aggregate	Aggregate	Gasoline	54906.1	3.86E+08	3.86E+08	0	2.66E+08	0	0	33.36862	0.546739	107.9934	141.9088	0.398017	0	0.030716	0.428733	0.850525	11.60966	12.88892	0.43288	0	0.033406	
Los Angele	2045	LHDT1	Aggregate	Aggregate	Diesel	27753.19	1.99E+08	1.99E+08	0	1.13E+08	0	0	108.1949	13.31193	0	121.5068	4.099316	0.260654	0	0.4359971	0.656471	5.97389	10.99033	4.284669	0.27244	0	
Los Angele	2045	LHDT1	Aggregate	Aggregate	Electricity	95354.44	1.2E+09	0	1195265734	4.24E+08	671133883.6	0	0	0	0	0	0	0	0	0	0	2.63511	17.98462	20.61973	0	0	
Los Angele	2045	LHDT1	Aggregate	Aggregate	Fuel Cell El	10481.57	1.32E+08	0	132082807	46627861	0	5142534	0	0	0	0	0	0	0	0	0	0.291193	1.98739	2.278583	0	0	
Los Angele	2045	LHDT2	Aggregate	Aggregate	Gasoline	14716.99	1.09E+08	1.09E+08	0	70080675	0	0	10.71249	0.127873	30.92554	41.7659	0.113349	0	0.007317	0.120666	0.239277	3.711813	4.071757	1.123277	0	0.007958	
Los Angele	2045	LHDT2	Aggregate	Aggregate	Diesel	42148.32	3.16E+08	3.16E+08	0	1.69E+08	0	0	87.46715	13.23161	0	100.6988	5.610972	0.365648	0	5.976619	0.967185	10.05829	17.0021	5.864675	0.382181	0	
Los Angele	2045	LHDT2	Aggregate	Aggregate	Electricity	83484.02	1.07E+09	0	1073651850	3.66E+08	602848482.2	0	0	0	0	0	0	0	0	0	0	2.366997	17.76271	20.1297	0	0	
Los Angele	2045	LHDT2	Aggregate	Aggregate	Fuel Cell El	9173.822	1.19E+08	0	118611109	40166500	0	4618023	0	0	0	0	0	0	0	0	0	0.261493	1.961635	2.223128	0	0	
Los Angele	2045	MCY	Aggregate	Aggregate	Gasoline	198020.4	3.47E+08	3.47E+08	0	1.28E+08	0	0	183.8024	0	8.443539	192.246	1.120158	0	0.486527	1.606685	0.382849	1.607967	3.597501	1.201553	0	0.521703	
Los Angele	2045	MDV	Aggregate	Aggregate	Gasoline	339993	2.7E+09	2.7E+09	0	4.62E+08	0	0	200.0064	0	82.06361	282.07	5.017822	0	0.600267	5.618089	5.945896	11.32798	22.89197	5.455377	0	0.652735	
Los Angele	2045	MDV	Aggregate	Aggregate	Diesel	17888.85	1.47E+08	1.47E+08	0	25977889	0	0	3.517814	0	0	3.517814	0.249443	0	0	0.249443	0.3245	0.611692	1.185636	0.260722	0	0	
Los Angele	2045	MDV	Aggregate	Aggregate	Electricity	522235.8	6.11E+09	0	6109256114	8.63E+08	3028799984	0	0	0	0	0	0	0	0	0	0	15.48889	6.00819	21.49709	0	0	
Los Angele	2045	MDV	Aggregate	Aggregate	Plug-in HyL	262464	3.6E+09	9.34E+08	2669602549	2.26E+08	1631194849	0	9.576679	0	9.904454	19.48113	0.101147	0	0.177266	1.188413	9.13593	4.239273	14.56362	1.099715	0	0.192793	
Los Angele	2045	MDV	Aggregate	Aggregate	Fuel Cell El	95871.42	1.14E+09	0	1138466201	1.6E+08	0	17426392	0	0	0	0	0	0	0	0	0	2.886372	1.119159	4.005531	0	0	
Los Angele	2045	MH	Aggregate	Aggregate	Gasoline	19844.3	55225715	55225715	0	718401.1	0	0	10.48006	0	0.27528	10.75534	0.062478	0	0.000272	0.06275	0.182628	0.925606	1.170984	0.067951	0	0.000296	
Los Angele	2045	MH	Aggregate	Aggregate	Diesel	7773.23	21504479	21504479	0	281293.2	0	0	45.69753	0	0	45.69753	0.444559	0	0	0.444559	0.094819	0.358292	0.897669	0.46466	0	0	
Los Angele	2045	MHDT	Aggregate	Aggregate	Gasoline	10657.21	1.02E+08	1.02E+08	0	69726017	0	0	10.17731	0.22596	23.5076	33.91087	0.113903	0	0.033253	0.147156	0.336546	1.705273	2.188975	0.12388	0	0.036166	
Los Angele	2045	MHDT	Aggregate	Aggregate	Diesel	26343.13	2.6E+08	2.6E+08	0	1.04E+08	0	0	29.2109	18.25662	43.81589	91.28341	0.775657	0.017259	0	0.792917	0.85888	4.360131	6.011928	0.810729	0.01804	0	
Los Angele	2045	MHDT	Aggregate	Aggregate	Electricity	70512.45	9.09E+08	0	908698103	3.03E+08	1132807641	0	0	0	0	0	0	0	0	0	0	3.005005	0.728642	10.63365	0	0	
Los Angele	2045	MHDT	Aggregate	Aggregate	Natural Gas	235.9542	2672116	2672116	0	895324.3	0	0	0.188014	0.433164	0	0.621178	0.003356	0.001595	0	0.004951	0.008837	0.044846	0.058634	0.00365	0.001735	0	
Los Angele	2045	MHDT	Aggregate	Aggregate	Fuel Cell El	8198.851	1.1E+1																				

PM10_TO\	PM10_PM	PM10_PM	PM10_TO\	CO2_RUNI	CO2_IDLE\	CO2_STRE	CO2_TOTE	CH4_RUNI	CH4_IDLEX	CH4_STRE	CH4_TOTE	N2O_RUNI	N2O_IDLE\	N2O_STRE	N2O_TOTE	ROG_RUNI	ROG_IDLE\	ROG_STRE	ROG_TOTE	ROG_DIUR	ROG_HOT\	ROG_RUNI	ROG_TOT\	TOG_RUNI	TOG_IDLE\	TOG_STRE	TOG_TOTE	
0.000259	0.004875	0.023224	0.028358	500.3185	0	12.99855	513.317	0.029729	0	5.56E-07	0.029729	0.038433	0	0.000151	0.038584	0.149104	0	2.32E-06	0.149106	0.077729	0.012775	0.136059	0.375229	0.217571	0	2.54E-06	0.217574	
16.52654	46.64764	112.9037	176.0779	1596924	133545.3	0	1730469	0.621631	3.342522	0	3.964153	521.9939	0	0	521.9939	13.38355	71.96358	0	85.34713	0	0	0	85.34713	15.23616	81.92505	0	97.16121	
0	52.46689	65.78913	118.256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.051401	1.011889	4.181226	5.244517	27659.67	3212.265	0	30871.93	16.66096	7.177137	0	23.83809	11.23982	0	0	11.23982	0.220009	0.10017	0	0.320179	0	0	0	0.320179	15.71492	7.155014	0	22.86994	
0	24.55303	29.99024	54.54327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8.00665	21.73431	21.57903	51.31999	827050.6	0	36347.58	863398.1	21.43771	0	20.39231	41.83002	18.0535	0	7.728246	25.78174	107.8671	0	110.3858	218.2529	906.0109	235.2118	423.403	1782.879	138.1276	0	120.83	258.9576	
0.029027	0.015523	0.015534	0.060083	535.6029	0	0	535.6029	0.003905	0	0	0.003905	0.668897	0	0	0.668897	0.084077	0	0	0.084077	0	0	0	0.084077	0.095716	0	0	0.095716	
0	253.4547	70.12947	323.5841	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.581208	14.90364	4.936305	20.42115	123499.6	0	7284.269	130783.9	0.60953	0	2.335628	2.945157	0.87457	0	1.976892	2.851462	1.536699	0	10.82203	12.35873	43.77928	8.390619	13.554	78.08262	2.242348	0	11.84876	14.09111	
0	1.488941	0.412067	1.901008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.832217	5.304695	7.184035	14.32095	232083	0	9040.139	241123.1	3.964097	0	4.663249	8.627346	4.33485	0	1.819366	6.154216	15.87038	0	25.33763	41.20802	152.4753	31.38056	94.48946	319.5534	21.62146	0	27.73914	49.3606	
0.000184	2.26E-05	3.13E-05	0.000238	1.740377	0	0	1.740377	1.40E-05	0	0	0.000153	0.000153	0	0	0.000153	0.000301	0	0	0.000301	0	0	0	0.000301	0.000343	0	0	0.000343	
0	19.26211	5.331998	24.59411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.0082	0.169865	0.056716	0.234781	1757.48	0	99.3488	1856.829	0.008676	0	0.031296	0.039972	0.012449	0	0.025161	0.03761	0.021874	0	0.148821	0.170695	0.595923	0.100843	0.236204	1.103665	0.031918	0	0.16294	0.194858	
0	0.236015	0.065328	0.301342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7.418944	27.85409	37.26779	72.54082	1189867	0	47589.5	1246556	15.47443	0	21.26919	36.74361	18.46476	0	8.319813	26.78457	55.45029	0	112.3232	167.7735	586.8577	102.5118	392.8523	1249.995	77.30526	0	122.9744	200.2797	
0.023958	0.05735	0.06415	0.145458	1886.448	0	0	1886.448	0.006831	0	0	0.006831	2.839075	0	0	2.839075	0.147071	0	0	0.147071	0	0	0	0.147071	0.16743	0	0	0.16743	
0	167.2254	46.27046	213.4959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.345148	8.67098	2.880249	11.89638	83116.09	0	4452.527	87568.61	0.410068	0	1.190829	1.600898	0.588365	0	0.98933	1.577695	1.033833	0	5.522886	6.556719	17.12805	3.569304	5.536673	32.79074	1.508566	0	6.046865	7.555431	
0	6.245282	1.727983	7.973265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.466287	3.402098	33.17046	37.03885	232925.2	2154.494	7048.154	242127.9	0.914171	0.856741	8.025633	9.796544	4.232026	0.03193	8.417139	12.6811	2.407964	6.279481	40.42266	49.11011	71.63378	9.866028	93.41776	224.0277	3.513695	9.163004	44.25773	56.93442	
4.557109	2.625886	17.06826	24.25125	103669.7	1169.42	0	104839.1	0.476084	0.050408	0	0.526492	82.18579	0	0	82.18579	10.24981	1.085247	0	11.33506	0	0	0	0	11.33506	11.66873	1.235482	0	12.90421
0	10.54044	51.38464	61.92508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	1.164771	5.678259	6.843029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.131235	0.957109	10.60518	11.69352	70171.34	631.5876	1841.666	72644.6	0.307852	0.203533	2.650504	3.161888	1.331996	0.007736	2.420027	3.759759	0.832944	1.468663	13.74507	16.04667	17.03982	2.246973	22.04504	57.37851	1.21543	2.143069	15.04912	18.40762	
6.246855	3.86874	28.73798	38.85358	172412.3	2435.249	0	174847.5	0.832144	0.070663	0	0.902806	137.356	0	0	137.356	17.91556	1.521329	0	19.43689	0	0	0	19.43689	20.39568	1.731932	0	22.12761	
0	9.467989	50.75059	60.21858	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	1.045971	5.604671	6.650642	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.723255	1.531397	4.594192	7.848844	79565.22	0	4875.9	84441.12	68.27983	0	18.38545	86.66528	13.93434	0	1.152458	15.0868	415.2533	0	116.7272	531.9805	236.4175	544.093	525.146	1837.637	520.1577	0	127.1369	647.2947	
6.108112	23.78358	32.36567	62.25736	1230237	0	44509.9	1274747	16.21893	0	19.15459	35.37352	19.04706	0	7.125256	26.17232	59.09145	0	107.7361	166.8276	425.6401	70.64442	289.1704	952.2825	84.47117	0	117.955	202.4262	
0.260722	1.298	1.747692	3.306415	65836.43	0	0	65836.43	0.110731	0	0	0.110731	64.56024	0	0	64.56024	2.383981	0	0	2.383981	0	0	0	2.383981	2.714004	0	0	2.714004	
0	61.95558	17.16626	79.12184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.292507	36.54372	12.11221	49.94843	334795.2	0	20201.07	354996.3	1.6512	0	4.035383	5.686582	2.36915	0	3.408521	5.777671	4.162878	0	18.29323	22.45611	37.88964	10.87634	7.410546	78.63264	6.074462	0	20.02878	26.10324	
0	11.54549	3.197598	14.74308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.068246	0.730511	2.644589	3.443347	107857.3	0	23.57699	107880.9	0.192159	0	0.018584	0.210742	1.01679	0	0.022081	1.038871	0.523904	0	0.090295	0.614199	14.247	2.116614	0.088564	17.06637	0.764479	0	0.098861	0.863341	
0.46466	0.379274	1.023691	1.867625	24198.86	0	0	24198.86	0.041051	0	0	0.041051	9.307582	0	0	9.307582	0.883812	0	0	0.883812	0	0	0	0.883812	1.006161	0	0	1.006161	
0.160046	1.346185	4.872207	6.378438	159791.6	1864.466	2976.385	164632.5	0.451372	0.484326	2.911571	3.847269	1.022373	0.011681	1.971485	3.00554	1.45666	3.90439	15.14896	20.51001	13.85532	1.855495	25.70805	61.92888	2.125555	5.697277	16.5862	24.40904	
0.828769	3.43552	12.45752	16.72181	280960.7	16773.44	0	297734.1	0.072245	0.0727	0	0.144945	114.4409	0	0	114.4409	1.555421	1.565208	0	3.120629	0	0	0	3.120629	1.770729	1.78187	0	3.552598	
0	12.02002	21.79612	33.81614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.005385	0.035346	0.128132	0.168863	2309.002	359.1616	0	2668.163	1.874642	1.102591	0	2.977233	1.176266	0	1.176266	0.024553	0.014478	0	0.039031	0	0	0	0.039031	1.753775	1.034161	0	0.2787936	0	
0	1.45857	2.643969	4.102538	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.005438	0.058823	0.216028	0.280289	7724.732	66.92924	106.2589	7897.92	0.039208	0.017574	0.118986	0.175767	0.092113	0.000568	0.106691	0.199371	0.156746	0.135962	0.614512	0.90722	2.431991	0.385378	1.113899	4.838488	0.228724	0.198395	0.672813	1.099932	
0.342934	0.375958	2.399303	3.118195	41477.05	1617.999	0	43095.05	0.043418	0.032476	0	0.075894	12.15507	0	0	12.15507	0.934775	0.699204	0	1.633979	0	0	0	1.633979	1.06417	0.79599	0	1.860161	
0	0.345164	0.644519	0.989683	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.000535	0.052078	0.19138	0.243993	0	131.9187	0	131.9187	0	0.796288	0	0.796288	0	0	0	0	0.006648	0	0.006648	0	0	0	0	0.006648	0				

TOG_DIUR	TOG_HOT	TOG_RUNI	TOG_TOT	CO_RUNE	CO_IDLEX	CO_STREX	CO_TOTEX	SOx_RUNE	SOx_IDLEX	SOx_STRE	SOx_TOTE	NH3_RUNI	Fuel Consumption
0.07729	0.012775	0.136059	0.443697	8.236195	0	0.66622	8.902416	0.002148	0	5.58E-05	0.002204	0.010968	54.24591
0	0	0	97.16121	60.85933	1063.289	0	1124.148	5.244069	0.438544	0	5.682612	287.0965	154635.4
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	22.86994	132.6568	27.74496	0	160.4018	0	0	0	0	23.06116	3688.72
0	0	0	0	0	0	0	0	0	0	0	0	0	0
906.0109	235.2118	423.403	1823.583	8669.407	0	1778.724	10448.13	3.550712	0	0.156048	3.706761	85.64059	91241.51
0	0	0	0.095716	1.500884	0	0	1.500884	0.00176	0	0	0.00176	0.006015	47.86167
0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.77928	8.390619	13.554	79.815	220.7328	0	88.4213	309.1542	0.530211	0	0.031273	0.561484	12.50991	13820.88
0	0	0	0	0	0	0	0	0	0	0	0	0	0
152.4753	31.38056	94.48946	327.706	2012.279	0	392.06	2404.339	0.996384	0	0.038811	1.035195	20.54953	25481.22
0	0	0	0.000343	0.003492	0	0	0.003492	5.72E-06	0	0	5.72E-06	8.77E-06	0.155521
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.595923	0.100843	0.236204	1.127829	3.139127	0	1.230727	4.369854	0.007545	0	0.000427	0.007972	0.178499	196.2245
0	0	0	0	0	0	0	0	0	0	0	0	0	0
586.8577	102.5118	392.8523	1282.501	9583.409	0	1887.657	11471.07	5.147432	0	0.204312	5.351745	111.8331	131732.6
0	0	0	0.16743	3.222501	0	0	3.222501	0.006199	0	0	0.006199	0.022223	168.5737
0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.12805	3.569304	5.536673	33.78945	148.683	0	45.14478	193.8277	0.356836	0	0.019116	0.375952	8.436285	9254.007
0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.63378	9.866028	93.41776	231.852	364.5074	74.32232	509.242	948.0717	1	0.00925	0.030259	1.039509	19.1368	25587.4
0	0	0	12.90421	68.00103	8.995089	0	76.99612	0.340656	0.003843	0	0.344499	45.17403	9368.46
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.03982	2.246973	22.04504	59.73946	134.8015	19.60703	157.919	312.3275	0.301261	0.002712	0.007907	0.311879	5.383735	7676.879
0	0	0	22.12761	51.19976	12.60956	0	63.80932	0.566542	0.008002	0	0.574544	75.52484	15624.44
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
236.4175	544.093	525.146	1952.951	4009.662	0	998.6408	5008.303	0.341591	0	0.020933	0.362525	3.51347	8923.502
425.6401	70.64442	289.1704	987.8811	8694.86	0	1558.427	10253.29	5.281682	0	0.191091	5.427273	95.69359	134711.7
0	0	0	2.714004	77.40882	0	0	77.40882	0.216337	0	0	0.216337	0.502975	5883.167
0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.88964	10.87634	7.410546	82.27977	599.4082	0	147.8945	747.3027	1.43735	0	0.086728	1.524078	33.97053	37515.02
0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.247	2.116614	0.088564	17.31551	9.367068	0	1.940019	11.30709	0.463056	0	0.000101	0.463157	2.739416	11400.55
0	0	0	1.006161	2.645173	0	0	2.645173	0.079517	0	0	0.079517	5.118349	2162.419
13.85532	1.855495	25.70805	65.82791	33.66776	55.73641	270.9549	360.359	0.686021	0.008005	0.012778	0.706804	5.048191	17397.9
0	0	0	3.552598	11.58222	66.1666	0	77.74882	0.922635	0.055082	0	0.977716	62.94063	26605.63
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2.787936	6.344321	3.173406	0	9.517727	0	0	0	0	3.122233	318.8044
0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.431991	0.385378	1.113899	5.0312	3.720145	1.050754	10.9758	15.7467	0.033164	0.000287	0.000456	0.033908	6.220587	834.6302
0	0	0	1.860161	4.061002	10.72427	0	14.78528	0.136205	0.005313	0	0.141518	6.652112	3850.989
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0.474842	0	0.942701	0	0.942701	0	0	0	0	4.600263	15.76226
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.504478	0.187516	1.081539	9.822568	3.685799	32.4142	11.59881	47.6988	0.047717	0.0039	0.000328	0.051945	0.63696	1278.624
0	0	0	0.091525	0.302216	1.330315	0	1.632532	0.014511	0.001226	0	0.015737	0.806053	428.2309
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	33.96371	91.63534	9.35994	0	100.9953	0	0	0	0	7.650831	1495.823
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.001792	0.000434	0.00175	0.007062	0.112596	0	0.038305	0.150901	0.000675	0	5.87E-06	0.000681	0.005551	7.265769
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0.055811	0.1134	0	0	0.1134	0	0	0	0	1.261018	69.51288
0	0	0	0	0	0	0	0	0	0	0	0	0	0

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