

Appendix F

Energy Calculations

1111 Sunset Boulevard

Draft EIR

Appendix F

Energy Analysis Spreadsheets

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1111 Sunset

Summary of Energy Use During Construction

Electricity	
Water Consumption	5,288 kWh
Temporary Power (lighting, tools)	32,710 kWh
Total:	37,997 kWh
Gasoline	
On Road	134,610 Gallons
Off Road	0 Gallons
Total:	134,610 Gallons
Diesel	
On Road	450,502 Gallons
Off Road	228,035 Gallons
Total:	678,537 Gallons
Total Mobile	813,147

1111 Sunset - Mixed Use Option

Summary of Energy Use During Operations

	Buildout Without Project Features	Buildout With Project Features	Percent Reduction
Electricity			
Electricity (building)	8,666,629	7,945,621 kWh/year	-8%
Electricity (water)	1,230,009	984,007 kWh/year	-20%
EV Charging	99,686	99,686 kWh/year	-
Parking Lift	507,600	507,600 kWh/year	-
Electricity Total	10,503,925	9,536,915 kWh/year	-9%
Natural Gas	21,263,250	18,420,535 cu ft/year	-13%
Mobile			
Gasoline	948,504	587,073 Gallons/year	-38%
Diesel	200,361	124,013 Gallons/year	-38%
Mobile Total	1,148,865	711,086 Gallons/year	-38%

1111 Sunset - No Hotel Scenario

Summary of Energy Use During Operations

	Buildout Without Project Features	Buildout With Project Features		Percent Reduction
Electricity				
Electricity (building)	8,453,746	7,757,063 kWh/year		-8%
Electricity (water)	1,275,454	1,020,364 kWh/year		-20%
EV Charging	113,470	113,470 kWh/year	-	
Parking Lift	507,600	507,600 kWh/year	-	
Electricity Total	10,350,270	9,398,497 kWh/year		-9%
Natural Gas	20,731,135	17,541,278 cu ft/year		-15%
Mobile				
Gasoline	887,257	551,907 Gallons/year		-38%
Diesel	187,423	116,584 Gallons/year		-38%
Mobile Total	1,074,681	668,491 Gallons/year		-38%

Construction Electricity Usage

Construction Electricity Usage

Caterpillar 40-C4.4 Generator^a

Peak Power Rating - Prime (kW)	36
Typical Load	70%
Average Output (kW)	25.2
Hours per Day	2
Average Daily Output (kWh)	50.4
Building Construction Phase Duration (days)	649
Total Construction (kWh)	32,710
Total Construction (MWh)	32.7

^a<https://www.albancat.com/content/uploads/2014/06/40-C4.4-Spec-Sheet.pdf>

Calculation of Diesel Usage During Construction (Offroad Equipment):

Phase Name	Off Road Equipment Type	Units	Hours	HP	Load Factor	Avg. Daily Factor	Number of Days	Diesel Fuel Usage	
Utility Work and Demolition	Air Compressors	1	8	78	0.48	0.6	60	539	
Utility Work and Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	60	851	
Utility Work and Demolition	Excavators	2	8	158	0.38	0.6	60	1,729	
Utility Work and Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	60	576	
Utility Work and Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	60	0	
Utility Work and Demolition	Skid Steer Loaders	2	8	65	0.37	0.6	60	693	
Utility Work and Demolition	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	60	1,034	
Utility Work and Demolition	Trenchers	2	8	78	0.5	0.6	60	1,123	
Demolition and Excavation	Air Compressors	1	8	78	0.48	0.6	72	647	
Demolition and Excavation	Bore/Drill Rigs	3	8	221	0.5	0.6	72	5,728	
Demolition and Excavation	Cement and Mortar Mixers	2	8	9	0.56	0.6	72	174	
Demolition and Excavation	Concrete/Industrial Saws	1	8	81	0.73	0.6	72	1,022	
Demolition and Excavation	Excavators	4	8	158	0.38	0.6	72	4,150	
Demolition and Excavation	Generator Sets	1	8	84	0.74	0.6	72	1,074	
Demolition and Excavation	Plate Compactors	2	8	8	0.43	0.6	72	119	
Demolition and Excavation	Rough Terrain Forklifts	1	8	100	0.4	0.6	72	691	
Demolition and Excavation	Rubber Tired Loaders	4	8	203	0.36	0.6	72	5,051	
Demolition and Excavation	Skid Steer Loaders	2	8	65	0.37	0.6	72	831	
Demolition and Excavation	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	72	1,240	
Demolition and Excavation	Welders	3	8	46	0.45	0.6	72	1,073	
Grading and Excavation	Cement and Mortar Mixers	3	8	9	0.56	0.6	24	87	
Grading and Excavation	Concrete/Industrial Saws	2	8	81	0.73	0.6	24	681	
Grading and Excavation	Excavators	4	8	158	0.38	0.6	24	1,383	
Grading and Excavation	Generator Sets	1	8	84	0.74	0.6	24	358	
Grading and Excavation	Plate Compactors	2	8	8	0.43	0.6	24	40	
Grading and Excavation	Rough Terrain Forklifts	1	8	100	0.4	0.6	24	230	
Grading and Excavation	Rubber Tired Loaders	4	8	203	0.36	0.6	24	1,684	
Grading and Excavation	Skid Steer Loaders	2	8	65	0.37	0.6	24	277	
Grading and Excavation	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	24	413	
Grading and Excavation	Welders	3	8	46	0.45	0.6	24	358	
Concrete and Grading/Excavation	Air Compressors	2	8	78	0.48	0.6	60	1,078	
Concrete and Grading/Excavation	Cement and Mortar Mixers	4	8	9	0.56	0.6	60	290	
Concrete and Grading/Excavation	Cranes	1	8	231	0.29	0.6	60	965	
Concrete and Grading/Excavation	Excavators	3	8	158	0.38	0.6	60	2,594	
Concrete and Grading/Excavation	Generator Sets	1	8	84	0.74	0.6	60	895	
Concrete and Grading/Excavation	Plate Compactors	2	8	8	0.43	0.6	60	99	
Concrete and Grading/Excavation	Pumps	3	8	84	0.74	0.6	60	2,685	
Concrete and Grading/Excavation	Rough Terrain Forklifts	1	8	100	0.4	0.6	60	576	
Concrete and Grading/Excavation	Rubber Tired Loaders	3	8	203	0.36	0.6	60	3,157	
Concrete and Grading/Excavation	Skid Steer Loaders	2	8	65	0.37	0.6	60	693	
Concrete and Grading/Excavation	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	60	1,034	
Concrete and Grading/Excavation	Welders	3	8	46	0.45	0.6	60	894	
Concrete and Mat Foundation	Air Compressors	2	8	78	0.48	0.6	35	629	
Concrete and Mat Foundation	Cranes	2	8	231	0.29	0.6	35	1,125	
Concrete and Mat Foundation	Forklifts	2	8	89	0.2	0.6	35	299	
Concrete and Mat Foundation	Plate Compactors	4	8	8	0.43	0.6	35	116	
Concrete and Mat Foundation	Pumps	3	8	84	0.74	0.6	35	1,566	
Concrete and Mat Foundation	Rough Terrain Forklifts	1	8	100	0.4	0.6	35	336	
Concrete and Mat Foundation	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	35	603	
Concrete and Mat Foundation	Welders	2	8	46	0.45	0.6	35	348	
Building Construction (Phase 0 and 1/2)	Aerial Lifts	12	8	63	0.31	0.6	225	12,655	
Building Construction (Phase 0 and 1/2)	Air Compressors	8	8	78	0.48	0.6	225	16,174	
Building Construction (Phase 0 and 1/2)	Cranes	2	8	231	0.29	0.6	225	7,235	
Building Construction (Phase 0 and 1/2)	Forklifts	7	8	89	0.2	0.6	225	6,728	
Building Construction (Phase 0 and 1/2)	Pumps	3	8	84	0.74	0.6	225	10,070	
Building Construction (Phase 0 and 1/2)	Rough Terrain Forklifts	2	8	100	0.4	0.6	225	4,320	
Building Construction (Phase 0 and 1/2)	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	225	3,876	
Building Construction (Phase 0 and 1/2)	Welders	3	8	46	0.45	0.6	225	3,353	
Building Construction (Phase 1/2)	Air Compressors	6	8	78	0.48	0.6	424	22,859	
Building Construction (Phase 1/2)	Cement and Mortar Mixers	4	8	9	0.56	0.6	424	2,051	
Building Construction (Phase 1/2)	Cranes	2	8	231	0.29	0.6	424	13,634	
Building Construction (Phase 1/2)	Forklifts	5	8	89	0.2	0.6	424	9,057	
Building Construction (Phase 1/2)	Generator Sets	0	8	84	0.74	0.6	424	0	
Building Construction (Phase 1/2)	Rough Terrain Forklifts	1	8	100	0.4	0.6	424	4,070	
Building Construction (Phase 1/2)	Skid Steer Loaders	2	8	65	0.37	0.6	424	4,895	
Building Construction (Phase 1/2)	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	424	3,652	
Building Construction (Phase 1/2)	Welders	2	8	46	0.45	0.6	424	4,213	
Architectural Coating	Air Compressors	0	6	78	0.48	0.6	248	0	
Paving	Cement and Mortar Mixers	2	8	9	0.56	0.6	79	191	
Paving	Cranes	1	8	231	0.29	0.6	79	1,270	
Paving	Excavators	1	8	158	0.38	0.6	79	1,138	
Paving	Forklifts	2	8	89	0.2	0.6	79	675	
Paving	Pavers	2	8	130	0.42	0.6	79	2,070	
Paving	Paving Equipment	2	8	132	0.36	0.6	79	1,802	
Paving	Plate Compactors	2	8	8	0.43	0.6	79	130	
Paving	Rough Terrain Forklifts	1	8	100	0.4	0.6	79	758	
Paving	Rubber Tired Loaders	1	8	203	0.36	0.6	79	1,386	
Paving	Skid Steer Loaders	2	8	65	0.37	0.6	79	912	
Paving	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	79	1,361	
Paving	Trenchers	1	8	78	0.5	0.6	79	739	
Paving	Welders	1	8	46	0.45	0.6	79	392	
Total Diesel Usage for Construction (Offr								228,034.8	gallons of diesel fuel

gallons of diesel fuel per horsepower-hour= 0.05

Notes: Equipment assumptions are provided in the CalEEMod output files and fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

EMFAC2014 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	Veh_Class	Fuel	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)	Miles per Gallon
South Coast	LDA	GAS	Aggregate	6,276,234	246,181,276	29,647,186	8,196	0	30.0
South Coast	LDT1	GAS	Aggregate	695,146	26,066,042	3,200,417	1,010	0	25.8
South Coast	LDT2	GAS	Aggregate	2,144,804	81,991,236	10,052,342	3,442	0	23.8
Construction Worker Trip (Composite LDA/LDT1/LDT2):									27.4
South Coast	HHDT	DSL	Aggregate	96,727	11,545,820	974,406	0	1774.2	6.5

Notes: Consistent with CalEEMod, a construction worker trip is assumed to be a composite of 50% LDA , 25% for LDT1, and 25% for LDT2. Used EMFAC 2011 Categories for construction as EMFAC2011 has specific categories for vehicle class T7.

Calculation of Gasoline and Diesel Usage During Phase 1 Construction (Onroad Vehicles):

Phase Name	Daily Woker Trips	Daily Vendor Trips	Days	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Trip Length (miles)			Total Length (miles)			Avg. Daily Factor (worker and vendor)	Gallons of Fuel	
							Worker	Vendor	Haul	Worker	Vendor	Haul		Gasoline	Diesel
Utility Work and Demolition	136	20	60	8160	1200	8760	14.7	6.9	25	119952	8280	219000	0.6	2,623.9	34,416.2
Demolition and Excavation	206	60	72	14832	4320	36720	14.7	6.9	25	218030.4	29808	918000	0.6	4,769.3	143,813.4
Grading and Excavation	200	60	24	4800	1440	13344	14.7	6.9	25	70560	9936	333600	0.6	1,543.5	52,179.0
Concrete and Grading/Excavation	256	170	60	15360	10200	26230	14.7	6.9	25	225792	70380	655750	0.6	4,939.1	107,255.3
Concrete and Mat Foundation	150	1400	35	5250	49000	0	14.7	6.5	20	77175	318500	0	0.6	1,688.2	29,365.5
Building Construction (Phase 0 and 1/2)	550	190	225	123750	42750	0	14.7	6.9	20	1819125	294975	0	0.6	39,792.4	27,196.5
Building Construction (Phase 1/2)	550	190	424	233200	80560	0	14.7	6.9	20	3428040	555864	0	0.6	74,986.5	51,250.3
Architectural Coating	0	0	248	0	0	0	14.7	6.9	20	0	0	0	0.6	0.0	0.0
Paving	168	100	79	13272	7900	0	14.7	6.9	20	195098.4	54510	0	0.6	4,267.7	5,025.8
Total:														134,610.5	450,502.1

Worker Miles per gallon=	27.43 gasoline
Vedor/Haul miles per gallon=	6.51 diesel

Notes: Consistent with CalEEMod worker vehicles are assumed to be gasoline and 50% LDA, 25%LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy Duty Trucks (T7).

Water Usage for Control of Fugitive Dust during Construction:

Phase	Days	Average Daily Acreage Disturbed	Gallons Per Year	Electricity (kWhr)
Utility Work and Demolition	60	0.5	90,600	881
Demolition and Excavation	72	1.5	326,160	3,173
Grading and Excavation	24	1.5	108,720	1,058
Concrete and Grading/Excavation	60	0.1	18,120	176
Concrete and Mat Foundation	35	0	0	0
Building Construction (Phase 0 and 1/2)	225	0	0	0
Building Construction (Phase 1/2)	424	0	0	0
Architectural Coating	248	0	0	0
Paving	79	0	0	0
Total:			543,600	5,288

Water application rate= 3020 gal/acre/day
kWhr equivalent= 0.01 kWhr

Notes: 1) Gallons per year of water usage for dust control is calculated based on a minimum control efficiency of 66% (three times daily) with an application rate of 3,020 gal/acre/day (Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition)) and average of 26 construction days per month.

2) CalEEMod Default: Each gallon of delivered potable water in Southern California is associated with 0.009727 kWhr of electricity).

1111 Sunset
Operational Fuel Usage Rates

EMFAC2014 Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Region	CalYr	Season	Veh_Class	Fuel	MdYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)			
South Coast	2028	Annual	HHDT	DSL	Aggregated	Aggregated	107,606	13,218,452	1,111,727	0.00	1,695.26			
South Coast	2028	Annual	HHDT	GAS	Aggregated	Aggregated	76	9,771	1,517	2.05	0.00			
South Coast	2028	Annual	LDA	DSL	Aggregated	Aggregated	73,929	2,785,890	353,898	0.00	49.59			
South Coast	2028	Annual	LDA	GAS	Aggregated	Aggregated	6,864,914	247,394,739	32,375,124	6,867.33	0.00			
South Coast	2028	Annual	LDT1	DSL	Aggregated	Aggregated	187	5,160	742	0.00	0.20			
South Coast	2028	Annual	LDT1	GAS	Aggregated	Aggregated	836,299	28,947,376	3,871,862	946.85	0.00			
South Coast	2028	Annual	LDT2	DSL	Aggregated	Aggregated	20,804	781,533	100,525	0.00	18.93			
South Coast	2028	Annual	LDT2	GAS	Aggregated	Aggregated	2,416,926	85,253,006	11,328,020	2,855.06	0.00			
South Coast	2028	Annual	LHDT1	DSL	Aggregated	Aggregated	149,729	5,538,541	1,883,397	0.00	233.58			
South Coast	2028	Annual	LHDT1	GAS	Aggregated	Aggregated	168,817	5,811,856	2,515,123	508.37	0.00			
South Coast	2028	Annual	LHDT2	DSL	Aggregated	Aggregated	60,507	2,160,040	761,107	0.00	101.11			
South Coast	2028	Annual	LHDT2	GAS	Aggregated	Aggregated	29,725	985,158	442,859	99.28	0.00			
South Coast	2028	Annual	MCY	GAS	Aggregated	Aggregated	337,586	2,130,710	675,171	59.20	0.00			
South Coast	2028	Annual	MDV	DSL	Aggregated	Aggregated	46,594	1,668,065	224,174	0.00	52.50			
South Coast	2028	Annual	MDV	GAS	Aggregated	Aggregated	1,600,161	53,358,703	7,418,399	2,210.02	0.00			
South Coast	2028	Annual	MH	DSL	Aggregated	Aggregated	14,110	127,248	1,411	0.00	11.16			
South Coast	2028	Annual	MH	GAS	Aggregated	Aggregated	32,381	310,203	3,239	54.79	0.00			
South Coast	2028	Annual	MHDT	DSL	Aggregated	Aggregated	143,143	8,626,225	1,463,637	0.00	711.64			
South Coast	2028	Annual	MHDT	GAS	Aggregated	Aggregated	25,755	1,286,185	515,301	231.50	0.00			
South Coast	2028	Annual	OBUS	DSL	Aggregated	Aggregated	5,129	359,484	49,933	0.00	37.75			
South Coast	2028	Annual	OBUS	GAS	Aggregated	Aggregated	5,844	220,582	116,920	39.72	0.00			
South Coast	2028	Annual	SBUS	DSL	Aggregated	Aggregated	6,601	209,158	76,174	0.00	25.36			
South Coast	2028	Annual	SBUS	GAS	Aggregated	Aggregated	3,458	129,833	13,830	13.46	0.00			
South Coast	2028	Annual	UBUS	DSL	Aggregated	Aggregated	0	0	0	0.00	0.00			
South Coast	2028	Annual	UBUS	GAS	Aggregated	Aggregated	986	92,416	3,945	16.48	0.00			
												MPG	Gallons Per Mile	
							Totals	461,410,335.34			13,904.11	2,937.09	27.4	0.04
							Total (GAS)	425,930,538.38	0.92				30.6	0.03
							Total (DSL)	35,479,796.96	0.08				12.1	0.08

Baseline Year
Calendar Year: 2019
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Region	CalYr	Season	Veh_Class	Fuel	MdYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)			
South Coast	2019	Annual	HHDT	DSL	Aggregated	Aggregated	92,086	11,035,510	918,238	0.00	1,756.36			
South Coast	2019	Annual	HHDT	GAS	Aggregated	Aggregated	101	7,659	2,026	2.00	0.00			
South Coast	2019	Annual	LDA	DSL	Aggregated	Aggregated	45,875	1,896,329	216,399	0.00	42.12			
South Coast	2019	Annual	LDA	GAS	Aggregated	Aggregated	6,081,048	244,446,391	28,695,373	8,546.80	0.00			
South Coast	2019	Annual	LDT1	DSL	Aggregated	Aggregated	482	11,462	1,689	0.00	0.52			
South Coast	2019	Annual	LDT1	GAS	Aggregated	Aggregated	651,943	24,807,246	2,983,370	1,008.68	0.00			
South Coast	2019	Annual	LDT2	DSL	Aggregated	Aggregated	9,665	445,810	48,035	0.00	13.63			
South Coast	2019	Annual	LDT2	GAS	Aggregated	Aggregated	2,073,197	80,872,282	9,694,322	3,631.58	0.00			
South Coast	2019	Annual	LHDT1	DSL	Aggregated	Aggregated	97,013	4,044,995	1,220,296	0.00	195.55			
South Coast	2019	Annual	LHDT1	GAS	Aggregated	Aggregated	175,207	6,463,196	2,610,330	629.75	0.00			
South Coast	2019	Annual	LHDT2	DSL	Aggregated	Aggregated	37,900	1,552,333	476,734	0.00	83.01			
South Coast	2019	Annual	LHDT2	GAS	Aggregated	Aggregated	28,635	1,024,337	426,614	114.60	0.00			
South Coast	2019	Annual	MCY	GAS	Aggregated	Aggregated	259,354	1,869,286	518,708	51.29	0.00			
South Coast	2019	Annual	MDV	DSL	Aggregated	Aggregated	23,710	1,023,301	117,204	0.00	40.71			
South Coast	2019	Annual	MDV	GAS	Aggregated	Aggregated	1,497,221	54,845,361	6,911,949	2,999.26	0.00			
South Coast	2019	Annual	MH	DSL	Aggregated	Aggregated	11,071	110,800	1,107	0.00	10.76			
South Coast	2019	Annual	MH	GAS	Aggregated	Aggregated	35,590	335,289	3,560	67.31	0.00			
South Coast	2019	Annual	MHDT	DSL	Aggregated	Aggregated	114,051	7,128,971	1,136,926	0.00	714.72			
South Coast	2019	Annual	MHDT	GAS	Aggregated	Aggregated	24,591	1,348,347	492,013	274.04	0.00			
South Coast	2019	Annual	OBUS	DSL	Aggregated	Aggregated	4,004	293,205	39,273	0.00	37.06			
South Coast	2019	Annual	OBUS	GAS	Aggregated	Aggregated	5,873	259,979	117,514	53.24	0.00			
South Coast	2019	Annual	SBUS	DSL	Aggregated	Aggregated	6,233	197,082	71,923	0.00	26.67			
South Coast	2019	Annual	SBUS	GAS	Aggregated	Aggregated	2,128	88,942	8,510	9.98	0.00			
South Coast	2019	Annual	UBUS	DSL	Aggregated	Aggregated	18	1,877	73	0.00	0.30			
South Coast	2019	Annual	UBUS	GAS	Aggregated	Aggregated	931	87,702	3,725	18.65	0.00			
												MPG	Gallons Per Mile	
							Totals	444,197,691.29			17,407.18	2,921.42	21.9	0.05
							Total (GAS)	416,456,015.85	0.94				23.9	0.04
							Total (DSL)	27,741,675.44	0.06				9.5	0.11

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Land Use Details

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
User Defined Commercial	1.00	User Defined Un	0.00	0.00	0
Enclosed Parking with Elevator	485.00	Space	4.36	194,000.00	0
Unenclosed Parking with Elevator	1,168.00	Space	10.51	467,200.00	0
Health Club	14.50	1000sqft	0.33	14,500.00	0
High Turnover (Sit Down Restaurant)	35.00	1000sqft	0.80	35,000.00	0
Hotel	180.00	Room	6.00	85,000.00	0
Condo/Townhouse High Rise	737.00	Dwelling Unit	11.52	766,982.00	1784
Strip Mall	18.20	1000sqft	0.42	18,200.00	0
Supermarket	27.30	1000sqft	0.63	27,300.00	0

Trip Summary Information

Land Uses	Average Daily Trip Rate			Annual VMT
	Weekday	Saturday	Sunday	
Enclosed Parking with Elevator	0.0	0.0	0.0	0
General Office Building	0.0	0.0	0.0	0
Health Club	0.0	0.0	0.0	0
High Turnover (Sit Down Restaurant)	0.0	0.0	0.0	0
Hotel	0.0	0.0	0.0	0
Strip Mall	0.0	0.0	0.0	0
Supermarket	0.0	0.0	0.0	0
Unenclosed Parking with Elevator	0.0	0.0	0.0	0
User Defined Commercial	13431.0	14330.9	14330.9	31,476,264
Total	13,431.00	14,330.88	14,330.88	31,476,264

Gasoline and Diesel Usage

	Gasoline	Diesel
Miles/Gallon	30.6	12.1
% Fleet Mix	92.3%	7.7%
Total (Gallons):	948,504	200,361

Note: Fleet mix is 92.3% gasoline @ 30.6 miles/gallon and 7.7% diesel @ 12.1 miles/gallon.

Energy by Land Use - Natural Gas

Land Uses	kBTU/yr	cu ft/year
Condo/Townhouse High Rise	7744740.0	7,375,943
Enclosed Parking with Elevator	0.0	0
General Office Building	451584.0	430,080
Health Club	242658.0	231,103
High Turnover (Sit Down Restaurant)	7926170.0	7,548,733
Hotel	1868980.0	1,779,981
Strip Mall	27755.0	26,433
Supermarket	575675.0	548,262
Unenclosed Parking with Elevator	0.0	0
User Defined Commercial	0.0	0
Fireplaces	2984850.0	2,842,714
Firepits	504000.0	480,000
Total	22,326,412	21,263,250

Note: CalEEMod provide pollutant emissions associated fireplaces, but does not include natural gas usage in output files. The provided usage rate is consistent with CalEEMod default factors (i.e., 90 percent of DUs have 60,000 btu/hr fireplaces, operate 25 days per year for three hours). In addition, the Project would include 7 fire pits for outdoor amenities. Fire pits are assumed to be twice the size of typical fireplaces, operate 100 days per year (i.e., colder days), and six hours per day.

Energy by Land Use - Electricity

Land Uses	kWh/yr
Condo/Townhouse High Rise	3,159,870
Enclosed Parking with Elevator	456,676
General Office Building	601,440
Health Club	157,688
High Turnover (Sit Down Restaurant)	1,516,520
Hotel	622,625
Strip Mall	238,402
Supermarket	1,007,040
Unenclosed Parking with Elevator	906,368
Total	8,666,629

Water Detail (Unmitigated)

Land Uses	Indoor Use (Mgal)	Outdoor Use (Mgal)	Electricity Use (kWh/yr)
Condo/Townhouse High Rise	48.02	30.27	827,994
Enclosed Parking with Elevator	0.00	0.00	0
General Office Building	8.53	5.23	145,651
Health Club	0.86	0.53	14,641
High Turnover (Sit Down Restaurant)	10.62	0.68	124,636
Hotel	4.57	0.51	55,668
Strip Mall	1.35	0.83	23,016
Supermarket	3.37	0.10	38,403
Unenclosed Parking with Elevator	0.00	0.00	0
Total	77.31	38.14	1,230,009

Notes: Indoor water results in 0.0111 kWh of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWh of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

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Land Use Details

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
User Defined Commercial	1.00	User Defined U	0.00	0.00	0
Enclosed Parking with Elevator	485.00	Space	4.36	194,000.00	0
Unenclosed Parking with Elevator	1,168.00	Space	10.51	467,200.00	0
Health Club	14.50	1000sqft	0.33	14,500.00	0
High Turnover (Sit Down Restaurant)	35.00	1000sqft	0.80	35,000.00	0
Hotel	180.00	Room	6.00	85,000.00	0
Condo/Townhouse High Rise	737.00	Dwelling Unit	11.52	766,982.00	2108
Strip Mall	18.20	1000sqft	0.42	18,200.00	0
Supermarket	27.30	1000sqft	0.63	27,300.00	0

Trip Summary Information

Land Uses	Average Daily Trip Rate			Mitigated
	Weekday	Saturday	Sunday	
Enclosed Parking with Elevator	0.0	0.0	0.0	0
General Office Building	0.0	0.0	0.0	0
Health Club	0.0	0.0	0.0	0
High Turnover (Sit Down Restaurant)	0.0	0.0	0.0	0
Hotel	0.0	0.0	0.0	0
Strip Mall	0.0	0.0	0.0	0
Supermarket	0.0	0.0	0.0	0
Unenclosed Parking with Elevator	0.0	0.0	0.0	0
User Defined Commercial	8257.0	8810.2	8810.2	19,482,126
Total	8,257.00	8,810.22	8,810.22	19,482,126

Mitigated Gasoline and Diesel Usage

	Gasoline	Diesel
Miles/Gallon	30.6	12.1
% Fleet Mix	92.3%	7.7%
Total (Gallons):	587,073	124,013

Note: Fleet mix is 92.3% gasoline @ 30.6 miles/gallon and 7.7% diesel @ 12.1 miles/gallon.

Energy by Land Use - Natural Gas (Mitigated)

Land Uses	kBTU/yr	cu ft/year
Condo/Townhouse High Rise	7744740.0	7,375,943
Enclosed Parking with Elevator	0.0	0
General Office Building	451584.0	430,080
Health Club	242658.0	231,103
High Turnover (Sit Down Restaurant)	7926170.0	7,548,733
Hotel	1868980.0	1,779,981
Strip Mall	27755.0	26,433
Supermarket	575675.0	548,262
Unenclosed Parking with Elevator	0.0	0
User Defined Commercial	0.0	0
Firepits	504000.0	480,000
Total	19,341,562	18,420,535

Note: CalEEMod provide pollutant emissions associated fireplaces, but does not include natural gas usage in output files. The provided usage rate is consistent with CalEEMod default factors (i.e., 90 percent of DUs have 60,000 btu/hr fireplaces, operate 25 days per year for three hours) and reflect implementation of GHG-PDF-2 (no fireplaces within new DUs). In addition, the Project would include 7 fire pits for outdoor amenities. Fire pits are assumed to be twice the size of typical fireplaces, operate 100 days per year (i.e., colder days), and six hours per day.

Energy by Land Use - Electricity (Mitigated)

Land Uses	kWH/yr
Condo/Townhouse High Rise	2,975,420
Enclosed Parking with Elevator	371,801
General Office Building	556,200
Health Club	146,450
High Turnover (Sit Down Restaurant)	1,447,650
Hotel	577,150
Strip Mall	209,919
Supermarket	959,063
Unenclosed Parking with Elevator	701,968
Total	7,945,621

Note: Reduction in electricity usage reflects 2019 Title 24 energy efficiency standards which assumes exceeding 2016 Title 24 requirements by 10 percent for energy efficiency and 25% for lighting.

Water Detail (Unmitigated)

Land Uses	Indoor Use (Mgal)	Outdoor Use (Mgal)	Electricity Use (kWH/yr)
Condo/Townhouse High Rise	38.415	24.218	662,395
Enclosed Parking with Elevator	0.000	0.000	0
General Office Building	6.825	4.183	116,521
Health Club	0.686	0.420	11,713
High Turnover (Sit Down Restaurant)	8.499	0.542	99,708
Hotel	3.653	0.406	44,534
Strip Mall	1.079	0.661	18,413
Supermarket	2.692	0.083	30,723
Unenclosed Parking with Elevator	0.000	0.000	0
Total	61.85	30.51	984,007

Notes: Indoor water results in 0.0111 kWh of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWh of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod). The City of Los Angeles Green Building Code (Chapter IX, Article 9, of the LAMC) requires newly constructed non-residential and high-rise residential buildings to reduce indoor water use by at least 20 percent by: (1) using water saving fixtures or flow restrictions; and/or (2) demonstrating a 20 percent reduction in

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Land Use Details

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
User Defined Commercial	1.00	User Defined Ur	0.00	0.00	0
Enclosed Parking with Elevator	485.00	Space	4.36	194,000.00	0
Unenclosed Parking with Elevator	1,210.00	Space	10.89	484,000.00	0
Health Club	14.50	1000sqft	0.33	14,500.00	0
High Turnover (Sit Down Restaurant)	35.00	1000sqft	0.80	35,000.00	0
Condo/Townhouse High Rise	827.00	Dwelling Unit	12.92	851,982.00	1931
Strip Mall	18.20	1000sqft	0.42	18,200.00	0
Supermarket	27.30	1000sqft	0.63	27,300.00	0

Trip Summary Information

Land Uses	Average Daily Trip Rate			Annual VMT
	Weekday	Saturday	Sunday	
Condo/Townhouse High Rise	0.0	0.0	0.0	0
Enclosed Parking with Elevator	0.0	0.0	0.0	0
General Office Building	0.0	0.0	0.0	0
Health Club	0.0	0.0	0.0	0
High Turnover (Sit Down Restaurant)	0.0	0.0	0.0	0
Strip Mall	0.0	0.0	0.0	0
Supermarket	0.0	0.0	0.0	0
Unenclosed Parking with Elevator	0.0	0.0	0.0	0
User Defined Commercial	12499.0	13548.9	13548.9	29,443,791
Total	12,499.00	13,548.92	13,548.92	29,443,791

Gasoline and Diesel Usage

	Gasoline	Diesel
Miles/Gallon	30.6	12.1
% Fleet Mix	92.3%	7.7%
Total (Gallons):	887,257	187,423

Note: Fleet mix is 92.3% gasoline @ 30.6 miles/gallon and 7.7% diesel @ 12.1 miles/gallon.

Energy by Land Use - Natural Gas

Land Uses	kBTU/yr	cu ft/year
Condo/Townhouse High Rise	8690500.0	8,276,667
Enclosed Parking with Elevator	0.0	0
General Office Building	451584.0	430,080
Health Club	242658.0	231,103
High Turnover (Sit Down Restaurant)	7926170.0	7,548,733
Strip Mall	27755.0	26,433
Supermarket	575675.0	548,262
Unenclosed Parking with Elevator	0.0	0
User Defined Commercial	0.0	0
Fireplaces	3349350.0	3,189,857
Firepits	504000.0	480,000
Total	21,767,692	20,731,135

Note: CalEEMod provide pollutant emissions associated fireplaces, but does not include natural gas usage in output files. The provided usage rate is consistent with CalEEMod default factors (i.e., 90 percent of DUs have 60,000 btu/hr fireplaces, operate 25 days per year for three hours). In addition, the Project would include 7 fire pits for outdoor amenities. Fire pits are assumed to be twice the size of typical fireplaces, operate 100 days per year (i.e., colder days), and six hours per day.

Energy by Land Use - Electricity

Land Uses	kWh/yr
Condo/Townhouse High Rise	3,545,750
Enclosed Parking with Elevator	447,946
General Office Building	601,440
Health Club	157,688
High Turnover (Sit Down Restaurant)	1,516,520
Strip Mall	238,402
Supermarket	1,007,040
Unenclosed Parking with Elevator	938,960
User Defined Commercial	0
Total	8,453,746

Water Detail (Unmitigated)

Land Uses	Indoor Use (Mgal)	Outdoor Use (Mgal)	Electricity Use (kWh/yr)
Condo/Townhouse High Rise	53.882	33.969	929,107
Enclosed Parking with Elevator	0.000	0.000	0
General Office Building	8.531	5.229	145,651
Health Club	0.858	0.526	14,641
High Turnover (Sit Down Restaurant)	10.624	0.678	124,636
Strip Mall	1.348	0.826	23,016
Supermarket	3.365	0.104	38,403
Unenclosed Parking with Elevator	0.000	0.000	0
User Defined Commercial	0.000	0.000	0
Total	78.61	41.33	1,275,454

Notes: Indoor water results in 0.0111 kWh of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWh of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

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Land Use Details

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined U	0.00	0.00	0
Enclosed Parking with Elevator	485.00	Space	4.36	194,000.00	0
Unenclosed Parking with Elevator	1,210.00	Space	10.89	484,000.00	0
Health Club	14.50	1000sqft	0.33	14,500.00	0
High Turnover (Sit Down Restaurant)	35.00	1000sqft	0.80	35,000.00	0
Condo/Townhouse High Rise	827.00	Dwelling Unit	12.92	851,982.00	1931
Strip Mall	18.20	1000sqft	0.42	18,200.00	0
Supermarket	27.30	1000sqft	0.63	27,300.00	0

Trip Summary Information

Land Uses	Average Daily Trip Rate			Mitigated
	Weekday	Saturday	Sunday	
Condo/Townhouse High Rise	0.0	0.0	0.0	0
Enclosed Parking with Elevator	0.0	0.0	0.0	0
General Office Building	0.0	0.0	0.0	0
Health Club	0.0	0.0	0.0	0
High Turnover (Sit Down Restaurant)	0.0	0.0	0.0	0
Strip Mall	0.0	0.0	0.0	0
Supermarket	0.0	0.0	0.0	0
Unenclosed Parking with Elevator	0.0	0.0	0.0	0
User Defined Commercial	7711.0	8358.7	8358.7	18,315,129
Total	7,711.00	8,358.72	8,358.72	18,315,129

Mitigated Gasoline and Diesel Usage

	Gasoline	Diesel
Miles/Gallon	30.6	12.1
% Fleet Mix	92.3%	7.7%
Total (Gallons):	551,907	116,584

Note: Fleet mix is 92.3% gasoline @ 30.6 miles/gallon and 7.7% diesel @ 12.1 miles/gallon.

Energy by Land Use - Natural Gas (Mitigated)

Land Uses	kBTU/yr	cu ft/year
Condo/Townhouse High Rise	8690500.0	8,276,667
Enclosed Parking with Elevator	0.0	0
General Office Building	451584.0	430,080
Health Club	242658.0	231,103
High Turnover (Sit Down Restaurant)	7926170.0	7,548,733
Strip Mall	27755.0	26,433
Supermarket	575675.0	548,262
Unenclosed Parking with Elevator	0.0	0
User Defined Commercial	0.0	0
Fireplaces	0.0	0
Firepits	504000.0	480,000
Total	18,418,342	17,541,278

Note: CalEEMod provide pollutant emissions associated fireplaces, but does not include natural gas usage in output files. The provided usage rate is consistent with CalEEMod default factors (i.e., 90 percent of DUs have 60,000 btu/hr fireplaces, operate 25 days per year for three hours) and reflect implementation of GHG-PDF-3 (no fireplaces within new DUs). In addition, the Project would include 7 fire pits for outdoor amenities. Fire pits are assumed to be twice the size of typical fireplaces, operate 100 days per year (i.e., colder days), and six hours per day.

Energy by Land Use - Electricity (Mitigated)

Land Uses	kWH/yr
Condo/Townhouse High Rise	3,338,770
Enclosed Parking with Elevator	371,801
General Office Building	556,200
Health Club	146,450
High Turnover (Sit Down Restaurant)	1,447,650
Strip Mall	209,919
Supermarket	959,063
Unenclosed Parking with Elevator	727,210
User Defined Commercial	0
Total	7,757,063

Note: Reduction in electricity usage reflects 2019 Title 24 energy efficiency standards which assumes exceeding 2016 Title 24 requirements by 10 percent for energy efficiency and 25% for lighting.

Water Detail (Unmitigated)

Land Uses	Indoor Use (Mgal)	Outdoor Use (Mgal)	Electricity Use (kWh/yr)
Condo/Townhouse High Rise	43.106	27.176	743,286
Enclosed Parking with Elevator	0.000	0.000	0
General Office Building	6.825	4.183	116,521
Health Club	0.686	0.420	11,713
High Turnover (Sit Down Restaurant)	8.499	0.542	99,708
Strip Mall	1.079	0.661	18,413
Supermarket	2.692	0.083	30,723
Unenclosed Parking with Elevator	0.000	0.000	0
User Defined Commercial	0.000	0.000	0
Total	62.89	33.07	1,020,364

Notes: Indoor water results in 0.0111 kWh of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWh of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod). The City of Los Angeles Green Building Code (Chapter IX, Article 9, of the LAMC) requires newly constructed non-residential and high-rise residential buildings to reduce indoor water use by at least 20 percent by: (1) using water saving fixtures or flow restrictions; and/or (2) demonstrating a 20 percent reduction in baseline water

Mechanical Parking Lift GHG and Energy Calculations

Calculation based on Cycles per Day

Number of Parking Spaces	470	Email August 7, 2020, Erin Anderson
Cycles per Day per space	3	Assumed
Total Parking Cycles per day	1410	
Parking Elevator Energy consumption per cycle (kWh)	1	http://pmatik.com/content/110#11
Daily Energy Usage (kWh)	1410	
Annual Energy Usage (kWh)	507,600	
Electricity Generation Carbon Intensity (lbs/MWh)	524	LADWP Year 2028 (SB 100)
GHG emissions (tons/year)	133	

Peak Electricity Demand Calculations

Electrical Load Factor Equation

$$f_{Load} = \frac{\text{Average load}}{\text{Maximum load in given time period}}$$

Load Factor (%)¹ **52%**

Project Electricity Demand (Operational)

	Baseline (Existing)	Project	Net Increase
Annual Demand			
Building (MWh)	0	8,553	8,553
Water (MWh)	0	984	984
Total (MWh)	0	9,537	9,537

Average Daily Demand

Building (kWh)	0	23,433	23,433
Water (kWh)	0	2,696	2,696
Total (kWh)	0	26,129	26,129

Average Load

Building (kW)	0	976	976
Water (kW)	0	112	112
Total (kW)	0	1,089	1,089

Peak Load Calculation

Peak Load (kW)	0	1,990	1,990
Systemwide Peak Load (MW)			5,854
Percent of Peak			0.034%

¹2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 2017. Page 11, Figure 6. Visual estimate.

Peak Electricity Demand Calculations

Electrical Load Factor Equation

$$f_{Load} = \frac{\text{Average load}}{\text{Maximum load in given time period}}$$

Load Factor (%)¹ **52%**

Project Electricity Demand (Operational)

	Baseline (Existing)	Project	Net Increase
Annual Demand			
Building (MWh)	0	8,378	8,378
Water (MWh)	0	1,020	1,020
Total (MWh)	0	9,398	9,398

Average Daily Demand

Building (kWh)	0	22,954	22,954
Water (kWh)	0	2,796	2,796
Total (kWh)	0	25,749	25,749

Average Load

Building (kW)	0	956	956
Water (kW)	0	116	116
Total (kW)	0	1,073	1,073

Peak Load Calculation

Peak Load (kW)	0	1,956	1,956
Systemwide Peak Load (MW)			5,854
Percent of Peak			0.033%

¹2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 2017. Page 11, Figure 6. Visual estimate.

EMFAC Emission inventories for County

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2021** (Construction Start Year)

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2021	HHDT	Aggregatec	Aggregatec	DSL	0.00	1774.20
Los Angeles	2021	HHDT	Aggregatec	Aggregatec	GAS	1.89	0.00
Los Angeles	2021	LDA	Aggregatec	Aggregatec	DSL	0.00	46.12
Los Angeles	2021	LDA	Aggregatec	Aggregatec	GAS	8195.76	0.00
Los Angeles	2021	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.43
Los Angeles	2021	LDT1	Aggregatec	Aggregatec	GAS	1009.57	0.00
Los Angeles	2021	LDT2	Aggregatec	Aggregatec	DSL	0.00	15.84
Los Angeles	2021	LDT2	Aggregatec	Aggregatec	GAS	3441.72	0.00
Los Angeles	2021	LHDT1	Aggregatec	Aggregatec	DSL	0.00	211.28
Los Angeles	2021	LHDT1	Aggregatec	Aggregatec	GAS	598.07	0.00
Los Angeles	2021	LHDT2	Aggregatec	Aggregatec	DSL	0.00	90.14
Los Angeles	2021	LHDT2	Aggregatec	Aggregatec	GAS	111.80	0.00
Los Angeles	2021	MCY	Aggregatec	Aggregatec	GAS	53.90	0.00
Los Angeles	2021	MDV	Aggregatec	Aggregatec	DSL	0.00	46.02
Los Angeles	2021	MDV	Aggregatec	Aggregatec	GAS	2808.58	0.00
Los Angeles	2021	MH	Aggregatec	Aggregatec	DSL	0.00	11.04
Los Angeles	2021	MH	Aggregatec	Aggregatec	GAS	64.52	0.00
Los Angeles	2021	MHDT	Aggregatec	Aggregatec	DSL	0.00	727.46
Los Angeles	2021	MHDT	Aggregatec	Aggregatec	GAS	264.51	0.00
Los Angeles	2021	OBUS	Aggregatec	Aggregatec	DSL	0.00	37.68
Los Angeles	2021	OBUS	Aggregatec	Aggregatec	GAS	49.58	0.00
Los Angeles	2021	SBUS	Aggregatec	Aggregatec	DSL	0.00	26.53
Los Angeles	2021	SBUS	Aggregatec	Aggregatec	GAS	10.85	0.00
Los Angeles	2021	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.25
Los Angeles	2021	UBUS	Aggregatec	Aggregatec	GAS	18.46	0.00
						6,069,653,628	1,090,251,415
Fuel Usage for Project Construction						130,343	673,511
Percentage of County for Construction						0.0021%	0.062%

1111 Sunset
Mixed Use Scenario

EMFAC Emission inventories for County

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2028** (Operational Start Year)

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2028	HHDT	Aggregatec	Aggregatec	DSL	0.00	1695.26
Los Angeles	2028	HHDT	Aggregatec	Aggregatec	GAS	2.05	0.00
Los Angeles	2028	LDA	Aggregatec	Aggregatec	DSL	0.00	49.59
Los Angeles	2028	LDA	Aggregatec	Aggregatec	GAS	6867.33	0.00
Los Angeles	2028	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.20
Los Angeles	2028	LDT1	Aggregatec	Aggregatec	GAS	946.85	0.00
Los Angeles	2028	LDT2	Aggregatec	Aggregatec	DSL	0.00	18.93
Los Angeles	2028	LDT2	Aggregatec	Aggregatec	GAS	2855.06	0.00
Los Angeles	2028	LHDT1	Aggregatec	Aggregatec	DSL	0.00	233.58
Los Angeles	2028	LHDT1	Aggregatec	Aggregatec	GAS	508.37	0.00
Los Angeles	2028	LHDT2	Aggregatec	Aggregatec	DSL	0.00	101.11
Los Angeles	2028	LHDT2	Aggregatec	Aggregatec	GAS	99.28	0.00
Los Angeles	2028	MCY	Aggregatec	Aggregatec	GAS	59.20	0.00
Los Angeles	2028	MDV	Aggregatec	Aggregatec	DSL	0.00	52.50
Los Angeles	2028	MDV	Aggregatec	Aggregatec	GAS	2210.02	0.00
Los Angeles	2028	MH	Aggregatec	Aggregatec	DSL	0.00	11.16
Los Angeles	2028	MH	Aggregatec	Aggregatec	GAS	54.79	0.00
Los Angeles	2028	MHDT	Aggregatec	Aggregatec	DSL	0.00	711.64
Los Angeles	2028	MHDT	Aggregatec	Aggregatec	GAS	231.50	0.00
Los Angeles	2028	OBUS	Aggregatec	Aggregatec	DSL	0.00	37.75
Los Angeles	2028	OBUS	Aggregatec	Aggregatec	GAS	39.72	0.00
Los Angeles	2028	SBUS	Aggregatec	Aggregatec	DSL	0.00	25.36
Los Angeles	2028	SBUS	Aggregatec	Aggregatec	GAS	13.46	0.00
Los Angeles	2028	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.00
Los Angeles	2028	UBUS	Aggregatec	Aggregatec	GAS	16.48	0.00
						5,075,000,206	1,072,038,550
Net Fuel Usage for Project Operation						587,073	124,013
Percentage of County for Operation						0.0116%	0.0116%

1111 Sunset
No Hotel Scenario

EMFAC Emission inventories for County

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2028** (Operational Start Year)

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2028	HHDT	Aggregatec	Aggregatec	DSL	0.00	1695.26
Los Angeles	2028	HHDT	Aggregatec	Aggregatec	GAS	2.05	0.00
Los Angeles	2028	LDA	Aggregatec	Aggregatec	DSL	0.00	49.59
Los Angeles	2028	LDA	Aggregatec	Aggregatec	GAS	6867.33	0.00
Los Angeles	2028	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.20
Los Angeles	2028	LDT1	Aggregatec	Aggregatec	GAS	946.85	0.00
Los Angeles	2028	LDT2	Aggregatec	Aggregatec	DSL	0.00	18.93
Los Angeles	2028	LDT2	Aggregatec	Aggregatec	GAS	2855.06	0.00
Los Angeles	2028	LHDT1	Aggregatec	Aggregatec	DSL	0.00	233.58
Los Angeles	2028	LHDT1	Aggregatec	Aggregatec	GAS	508.37	0.00
Los Angeles	2028	LHDT2	Aggregatec	Aggregatec	DSL	0.00	101.11
Los Angeles	2028	LHDT2	Aggregatec	Aggregatec	GAS	99.28	0.00
Los Angeles	2028	MCY	Aggregatec	Aggregatec	GAS	59.20	0.00
Los Angeles	2028	MDV	Aggregatec	Aggregatec	DSL	0.00	52.50
Los Angeles	2028	MDV	Aggregatec	Aggregatec	GAS	2210.02	0.00
Los Angeles	2028	MH	Aggregatec	Aggregatec	DSL	0.00	11.16
Los Angeles	2028	MH	Aggregatec	Aggregatec	GAS	54.79	0.00
Los Angeles	2028	MHDT	Aggregatec	Aggregatec	DSL	0.00	711.64
Los Angeles	2028	MHDT	Aggregatec	Aggregatec	GAS	231.50	0.00
Los Angeles	2028	OBUS	Aggregatec	Aggregatec	DSL	0.00	37.75
Los Angeles	2028	OBUS	Aggregatec	Aggregatec	GAS	39.72	0.00
Los Angeles	2028	SBUS	Aggregatec	Aggregatec	DSL	0.00	25.36
Los Angeles	2028	SBUS	Aggregatec	Aggregatec	GAS	13.46	0.00
Los Angeles	2028	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.00
Los Angeles	2028	UBUS	Aggregatec	Aggregatec	GAS	16.48	0.00
						5,075,000,206	1,072,038,550
Net Fuel Usage for Project Operation						551,907	116,584
Percentage of County for Operation						0.0109%	0.0109%