Appendix D

Energy Calculations

TCV 2050 Project

Draft EIR Appendix D Energy Analysis Spreadsheets

- Appendix D: Energy Analysis
 - Energy Consumption Summary
 - o Project
 - o Project with Max Energy Scenario
 - Construction Energy Usage
 - o On-site Power
 - o Off-Road Equipment
 - o On-Road Fuel Usage Rates
 - On-Road Vehicles
 - o Construction Water Usage
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 - o Energy Calculations
 - o On-Road Fuel Usage Rates
 - o Peak Electricity Demand Calculations
 - o Total County Fuel Consumption

Television City

Summary of Energy Use During Construction

Electricty	
Water Consumption	52,024 kWh
Temporary Power (lighting, tools)	61,236 kWh
Total:	113,260 kWh
Gasoline	
On Road	274,297 Gallons
Off Road	0 Gallons
Total:	274,297 Gallons
Diesel	
On Road	636,191 Gallons
Off Road	144,126 Gallons
Total:	780,317 Gallons
Total Mobile	1,054,613

Summary of Energy Use During Operations

			Buildout With				
	Baseline (Buildout)	Buildout Without Project Features/MXD	Project Features/MXD and TDM		Percent Reduction due to Project Features	Project Without Project Features - Baseline (Buildout)	Project (Buildout - Baseline (Buildout)
Electricity							
Electricity (building)	11,153,546	27,779,880	25,336,807	kWh/year	-9%	16,626,334	14,183,261
Electricity (water)	2,060,869	5,451,446	5,451,446	kWh/year	0%	3,390,577	3,390,577
EV Chargers	29,064	1,283,665	1,283,665	kWh/year		1,254,601	1,254,601
Solar	-1,617,000	0	-2,000,000			1,617,000	(383,000)
Electricity Total	11,626,479	34,514,991	30,071,918	kWh/year	-13%	22,888,512	18,445,439
Natural Gas							
Natural Gas (building)	5,733,265	19,388,120	19,388,120			13,654,855	13,654,855
Natural Gas Total	5,733,265	19,388,120	19,388,120	cu ft/year	0%	13,654,855	13,654,855
Fuel							
Gasoline (Mobile)	295,828	1,349,694	841,089	Gallons/year	-38%	1,053,866	545,262
Diesel (Mobile)	49,087	223,957	139,564	Gallons/year	-38%	174,870	90,476
Stationary (Generators) Diesel	8,759	13,353	13,353	Gallons/year		4,594	4,594
Total Diesel	57,846	237,311	152,917	Gallons/year		179,464	95,071
Fuel Total	353,674	1,587,005	994,006	Gallons/year	-37%	1,233,330	640,333

635,738

Television City (Maximum Demand Scenarios)

Summary of Energy Use During Construction

Electricty	
Water Consumption	52,024 kWh
Temporary Power (lighting, tools)	61,236 kWh
Total:	113,260 kWh
Gasoline	
On Road	274,297 Gallons
Off Road	0 Gallons
Total:	274,297 Gallons
Diesel	
On Road	636,191 Gallons
Off Road	144,126 Gallons
Total:	780,317 Gallons
Total Mobile	1,054,613

Summary of Maximum Demand Scenario During Operations

			Buildout With				
		Buildout Without	Project		Percent Reduction	Project Without	Project (Buildou
		Project	Features/MXD		due to Project	Project Features -	- Baseline
	Baseline (Buildout)	Features/MXD	and TDM		Features	Baseline (Buildout)	(Buildout)
Electricity							
Electricity (building)	11,153,546	27,606,880	25,320,307	kWh/year	-8%	16,453,334	14,166,761
Electricity (water)	2,060,869	5,451,446	5,451,446	kWh/year	0%	3,390,577	3,390,577
EV Chargers	29,064	1,283,665	1,283,665	kWh/year		1,254,601	1,254,601
Solar	-1,617,000	0	-2,000,000			1,617,000	(383,000)
Electricity Total	11,626,479	34,341,991	30,055,418	kWh/year	-12%	22,715,512	18,428,939
Natural Gas							
Natural Gas (building)	5,733,265	20,256,120	20,256,120			14,522,855	14,522,855
Natural Gas Total	5,733,265	20,256,120	20,256,120	cu ft/year	0%	14,522,855	14,522,855
Fuel							
Gasoline (Mobile)	295,828	1,023,059	945,303	Gallons/year	-8%	727,232	649,476
Diesel (Mobile)	49,087	169,758	156,856	Gallons/year	-8%	120,671	107,769
Stationary (Generators) Diesel	8,759	13,353	13,353	Gallons/year		4,594	4,594
Total Diesel	57,846	183,112	170,209	Gallons/year		125,265	112,363
Fuel Total	353,674	1,206,171	1,115,513	Gallons/year	-8%	852,497	761,839
							757,245

Note: This land use mix generates higher electricity demand prior to PDFs, but once PDFs are applied, the demand is less than the conceptual development program.

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
Number of Unts	3
Average Daily Output (kWh)	151.2
Building Construction Phase Duration (days)	405
Total Construction (kWh)	61,236
Total Construction (MWh)	61.2

^ahttps://www.albancat.com/content/uploads/2014/06/40-C4.4-Spec-Sheet.pdf

Calculation of Diesel Usage During Cosnstruciton (Offroad Equipment):

Phase Name	Off Road Equipment Type	Units H	lours HP	Load Factor	Avg. Daily Factor	Number of Days	Diesel Fuel Usage	
Demolition	Concrete/Industrial Saws	2	8 81	0.73	0.6	65	1,845	=
Demolition	Excavators	4	8 158	0.38	0.6	65	3,746	
Demolition	Other Construction Equipment	1	8 172	0.42	0.6	65	1,127	
Demolition	Rubber Tired Dozers	2	8 247	0.4	0.6	65	3,083	
Excavation/Foundations	Bore/Drill Rigs	6	8 221	0.5	0.6	185	29,437	
Excavation/Foundations	Cranes	2	8 231	0.29	0.6	185	5,949	
Excavation/Foundations	Excavators	3	8 158	0.38	0.6	185	7,997	
Excavation/Foundations	Graders	0	8 187	0.41	0.6	185	0	
Excavation/Foundations	Other Construction Equipment	2	8 172	0.42	0.6	185	6,415	
Excavation/Foundations	Pumps	4	8 84	0.74	0.6	185	11,040	
Excavation/Foundations	Rubber Tired Dozers	3	8 247	0.4	0.6	185	13,160	
Excavation/Foundations	Rubber Tired Loaders	2	8 203	0.36	0.6	185	6,490	
Excavation/Foundations	Tractors/Loaders/Backhoes	3	8 97	0.37	0.6	185	4,781	
Excavation/Foundations	Welders	2	8 46	0.45	0.6	185	1,838	
Mat Foundation	Plate Compactors	6	8 8	0.43	0.6	5	25	
Mat Foundation	Pumps	6	8 84	0.74	0.6	5	448	
Mat Foundation	Rubber Tired Dozers	0	8 247	0.4	0.6	5	0	
Mat Foundation	Tractors/Loaders/Backhoes	0	8 97	0.37	0.6	5	0	
Structure/Enclosure	Cranes	0	7 231	0.29	0.6	235	0	
Structure/Enclosure	Forklifts	2	8 89	0.2	0.6	235	2,008	
Structure/Enclosure	Other Construction Equipment	4	8 172	0.42	0.6	235	16,297	
Structure/Enclosure	Pumps	2	8 84	0.74	0.6	235	7,012	
Structure/Enclosure	Tractors/Loaders/Backhoes	1	8 97	0.37	0.6	235	2,024	
Architectural Coating/Finishing	Air Compressors	6	8 78	0.48	0.6	260	14,018	
Architectural Coating/Finishing	Forklifts	2	8 89	0.2	0.6	260	2,221	
Paving/Landscape	Pavers	0	8 130	0.42	0.6	21	0	
Paving/Landscape	Paving Equipment	1	8 132	0.36	0.6	21	240	
Paving/Landscape	Rollers	1	8 80	0.38	0.6	21	153	
Paving/Landscape	Skid Steer Loaders	2	8 65	0.37	0.6	21	242	
Paving/Landscape	Trenchers	1	8 78	0.5	0.6	21	197	
					Total Diesel Usag	e for Construction (Offi	n 144,126.0	gallons of diesel fuel

gallons of diesel fuel per horsepower-hour=

0.05

Notes: Equipment assumptions are provide 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.

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EMFAC2021 Emissions Inventory

Region Type: County Region: Los Angeles

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	Veh_Class	Fuel	Speed	Population	VMT	Trips	Fuel_Gas	Fuel_DSL	Miles per Gallon
			(miles/hr)	(vehicles)	(miles/day)	(trips/day)	(1000 gallons/day)	(1000 gallons/day)	
South Coast	LDA	Gasoline	Aggregate	3,441,157	137,073,184	16,009,115	4,845	0	28.3
South Coast	LDT1	Gasoline	Aggregate	323,318	11,785,010	1,422,834	498	3 0	23.7
South Coast	LDT2	Gasoline	Aggregate	1,558,893	64,432,894	7,331,380	2,817	0	22.9
						Construction	Worker Trip (Compo	site LDA/LDT1/LDT2):	25.8
South Coast	HHDT	Diesel	Aggregate	51,746	6,735,516	804,221	0	1127.8	6.0

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 Construction (Onroad Vehicles):

Phase Name	Daily Woker Trips	Daily Vendor Trips	Davs	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Trip Length (miles)			Tota	l Length (mi	iles)	Avg. Daily Factor	Gallons	of Fuel
	,	,	,-				Worker	Vendor	Haul	Worker	Vendor	Haul	(worker and vendor)	Gasoline	Diesel
Demolition	100	80	65	6500	5200	0	14.7	32	20	95550	166400	0	0.6	2,223.7	16,717.3
Excavation/Foundations	490	640	185	90650	118400	8572	14.7	32	145	1332555	3788800	1242940	0.6	31,011.5	588,757.6
Mat Foundation	100	1000	5	500	5000	0	14.7	6.9	20	7350	34500	0	0.6	171.1	3,466.0
Structure/Enclosure	1350	100	235	317250	23500	0	14.7	6.9	20	4663575	162150	0	0.6	108,531.6	16,290.3
Architectural Coating/Finishing	1480	60	260	384800	15600	0	14.7	6.9	20	5656560	107640	0	0.6	131,640.5	10,814.0
Paving/Landscape	100	10	21	2100	210	0	14.7	6.9	20	30870	1449	0	0.6	718.4	145.6
													Total:	274,296.6	636,190.7

Worker Miles per gallon= 25.78 gasoline Vedor/Haul miles per gallon= 5.97 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 Distrub	ed G	allons Per Year	Electricity (kWhr)
Demolition	65	5.0		981,500	9,547
Excavation/Foundations	185	5.0		2,793,500	27,172
Mat Foundation	5	1.0		15,100	147
Structure/Enclosure	235	1.0		709,700	6,903
Architectural Coating/Finishing	260	1.0		785,200	7,638
Paving/Landscape	21	1.0		63,420	617
			Total:	5,348,420	52,024

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).

Land Use	Floor Ar	rea	Demand Rate (KWh/sf/yr)	Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Total Demand (Building) (KWh/yr)	Total Demand with 25% Reduction in Lighting LEED and Solar (KWh/yr)	Total Natural Gas Demand (KBtu/yr)
Existing Uses					·							
Sound Stages	95,540	sf	15.22	12.44	Sound Stages	CalEEMod 2020	22		245,482	1,454,119	NA	1,188,518
Production Support	325,450	sf	13.07	1.63	Strip Mall	CalEEMod 2020	75		836,217	4,253,632	NA	530,484
Production Office	163,090	sf	15.24	12.44	General Office Building	CalEEMod 2020	29	18	489,585	2,485,492	NA	2,028,840
General Office	159,600	sf	15.24	12.44	General Office Building	CalEEMod 2020	29	18	489,585	2,432,304	NA	1,985,424
Parking Lot	600,000	sf	0.88	0.00	Enclosed PS with Elevator	CalEEMod 2020	-	-		528,000	NA	0
SubTotal	743,680	sf							2,060,869	11,153,546	0	5,733,265
Solar Array						2019 Output				-1,617,000	NA	NA
EV Chargers					·					29,064	0	NA
TOTAL					·					9,536,546		5,733,265
								Total Electricity from Wat	ter and Building (KWh/yr):	11,597,415		ì

-Demand rates are based on CallEMod default historical data with Sound Stages as industrial Park.

-Visite usage rates are from CallEMod output files. Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CallEMod). Outdoor water results in 0.009572 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CallEMod).

Land Use	Floor Ar	ea	Demand Rate (KWh/sf/yr)	Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Total Demand (KWh/yr)	Total Demand with 25% Reduction in Lighting LEED and Solar (KWh/yr)	Total Natural Gas Demand (KBtu/yr)
Conceptual Land Use Program												
Sound Stages	350,000	sf	11.34	10.31	Sound Stages	MBS (2017-2018 average demand)	81	-	899,297	3,969,000	3,969,000	3,608,500
Production Support	104,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	24		267,220	1,359,280	1,196,520	169,520
Production Office	700,000	sf	12.50	10.31	General Office Building	CalEEMod 2020	124	76	2,124,078	8,750,000	8,090,250	7,217,000
General Office	700,000	sf	12.50	10.31	General Office Building	CalEEMod 2020	124	76	2,124,078	8,750,000	8,090,250	7,217,000
Retail*	15,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	1	1	18,969	196,050	172,575	24,450
Restaurant*	5,000	sf	43.27	230.33	Restaurant	CalEEMod 2020	2	0	17,805	216,350	206,512	1,151,650
Enclosed Parking Structure	1,040,000	sf	2.35	0.00	Enclosed PS with Elevator	CalEEMod 2020				2,444,000	1,989,000	0
Unenclosed Parking Structure	1,080,000	sf	1.94	0.00	Unenclosed PS with Elevator	CalEEMod 2020				2,095,200	1,622,700	0
SubTotal	1,874,000								5,451,446	27,779,880	25,336,807	19,388,120
Solar Array					To Be Determined					0	-2,000,000	NA
EV Chargers										1,283,665	1,283,665	NA
TOTAL										29,063,545	24,620,472	19,388,120
								Total Electricity from Wat	ter and Building (KWh/vr):	34.514.991	30.071.918	

Assumes Sk of permitted retail may be developed as ancillary restaurant/commissary uses.

-Vater usage rates are from calEEMod output files. Indoor water results in 0.0011 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009372 kWhr of electricity usage per legillon from delivery and distribution of water within Southern California (CalEEMod).

Land Use	Floor Area	Demand Rate (KWh/sf/yr)	Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Total Demand (KWh/yr)	with 25% Reduction in Lighting LEED and Solar (KWh/yr)	Total Natural Gas Demand (KBtu/yr)	
Land Use ExchangeMax Electr	icity Demand Scenario											LU Exchange
Sound Stages	450,000 sf	11.34	10.31	Sound Stages	MBS (2017-2018 average demand)	104	_	1,156,238	5,103,000	5,103,000	4,639,500	Max 450K
Production Support	450,000 sf	13.07	1.63	Strip Mall	CalEEMod 2020	104		1,156,238	5,881,500	5,177,250	733,500	No limit
Production Office	477,000 sf	12.50	10.31	General Office Building	CalEEMod 2020	85	52	1,447,407	5,962,500	5,512,950	4,917,870	Max 700k
General Office	477,000 sf	12.50	10.31	General Office Building	CalEEMod 2020	85	52	1,447,407	5,962,500	5,512,950	4,917,870	Max 700k
Retail*	15,000 sf	13.07	1.63	Strip Mall	CalEEMod 2020	1	1	18,969	196,050	172,575	24,450	Max 20k incl
Restaurant*	5,000 sf	43.27	230.33	Restaurant	CalEEMod 2020	2	0	17,805	216,350	206,512	1,151,650	(technically i
Enclosed Parking Structure	1,040,000 sf	2.35	0.00	Enclosed PS with Elevator	CalEEMod 2020				2,444,000	1,989,000	0	
Unenclosed Parking Structure	1,080,000 sf	1.94	0.00	Unenclosed PS with Elevator	CalEEMod 2020				2,095,200	1,622,700	0	
SubTotal	1,874,000							5,244,066	27,861,100	25,296,937	16,384,840	Max 1.874M
Solar Array				To Be Determined					0	-2,000,000	NA	
EV Chargers									1,283,665	1,283,665	NA NA	_
TOTAL									29,144,765	24,580,602	16,384,840	_
							Total Electricity from Wa	ter and Building (KWh/yr):	34,388,831	29,824,668		

-Assumes Sk of permitted retail may be developed as ancillary restaurant/commissary uses.

-Vater usage rates are from cliEEMod output files. Indoor water results in 0.011 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod).

Land Use	Floor Are		Demand Rate (KWh/sf/yr)	Natural Gas Usage (KBTU/sf/yr)	Rate LU Category	Rate Source	Indoor Water Usage (Mgal)	Outdoor Water Usage (Mgal)	Electricity from Water Usage (KWh/yr)	Total Demand (KWh/yr)	Total Demand with 25% Reduction in Lighting LEED and Solar (KWh/yr)	Total Natural Gas Demand (KBtu/yr)
Land Use ExchangeMax VMT/N	latural Gas Usa	ge Scer	nario									
Sound Stages	450,000	sf	11.34	10.31	Sound Stages	MBS (2017-2018 average demand)	104	-	1,156,238	5,103,000	5,103,000	4,639,500
Production Support	4,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	1		10,278	52,280	46,020	6,520
Production Office	700,000	sf	12.50	10.31	General Office Building	CalEEMod 2020	124	76	2,124,078	8,750,000	8,090,250	7,217,000
General Office	700,000	sf	12.50	10.31	General Office Building	CalEEMod 2020	124	76	2,124,078	8,750,000	8,090,250	7,217,000
Retail*	15,000	sf	13.07	1.63	Strip Mall	CalEEMod 2020	1	1	18,969	196,050	172,575	24,450
Restaurant*	5,000	sf	43.27	230.33	Restaurant	CalEEMod 2020	2	0	17,805	216,350	206,512	1,151,650
Enclosed Parking Structure	1,040,000	sf	2.35	0.00	Enclosed PS with Elevator	CalEEMod 2020				2,444,000	1,989,000	0
Unenclosed Parking Structure	1,080,000	sf	1.94	0.00	Unenclosed PS with Elevator	CalEEMod 2020				2,095,200	1,622,700	0
SubTotal	1,874,000								5,451,446	27,606,880	25,320,307	20,256,120
Solar Array					To Be Determined					0	-2,000,000	NA
EV Chargers					•					1,283,665	1,283,665	NA
TOTAL										28,890,545	24,603,972	20,256,120
								Total Electricity from Wa	ter and Building (KWh/vr):	34,341,991	30,055,418	

-Assumes Sk of permitted retail may be developed as ancillary restaurant/commissary uses.
-Vater usage rates are from CalEEMod output files. Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery date and distribution of water within Southern California (CalEEMod).

LU Exchange Limitations

No reduction for lighting as the source is MBS.

No reduction for lighting as the source is MBS.

No limit Max 700k Max 700k

Max 20k incl restaurant

(technically no cap on restaurant but thus far all analyses assume max of 5k per discussion with Francis)

Max 1.874M sf and 1.75 FAR

No reduction for lighting as the source is MBS.

Television City (Fuel Usage)

,, ,,			Gasoline			Diesel		
Land Use	Annual VMT	Miles/Gallon	%Fleet	Annual Gallons	Miles/Gallon	%Fleet	Annual Gallons	Total Annual Fuel Usage
Existing Uses	7,847,050	23.1	95%	323,479	8.0	5%	46,987	370,466
Existing Uses (Buildout Year)	7,847,050	25.1	95%	295,828	8.8	5%	49,087	344,915
Project No MXD	35,801,626	25.1	95%	1,349,694	8.8	5%	223,957	1,573,651
Project With No TDM	26,870,089	25.1	95%	1,012,982	8.8	5%	168,086	1,181,068
Project TDM	22,310,515	25.1	95%	841,089	8.8	5%	139,564	980,653
Max Electricity Scenario No TDM	23,412,889	25.1	95%	882,648	8.8	5%	146,460	1,029,108
Max Electricity Scenario TDM	21,634,536	25.1	95%	815,605	8.8	5%	135,335	950,940
Max VMT and Natural Gas Scenario No TDM	27,137,407	25.1	95%	1,023,059	8.8	5%	169,758	1,192,818
Max VMT and Natural Gas Scenario TDM	25,074,870	25.1	95%	945,303	8.8	5%	156,856	1,102,159

⁻Assumes 5k of permitted retail may be developed as ancillary restaurant/commissary uses.

⁻Water usage rates are from CalEEMod output files. Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

Peak Electricity Demand Calculations

Electrical Load Factor Equation

$$f_{Load} = rac{ ext{Average load}}{ ext{Maximum load in given time period}}$$

Load Factor (%)¹

52%

Project Electricity Demand (Operational)

Project Electricity Demand (Opera	itional)	
	Baseline	
Annual Demand	(Existing)	Project
Building (MWh)	11,154	25,337
Water (MWh)	2,061	5,451
EV Chargers (MWh)	29	1,284
PV (MWh)	-1,617	-2,000
Total (MWh)	11,626	30,072
Average Daily Demand		
Building (kWh)	30,558	69,416
Water (kWh)	5,646	14,935
EV Chargers (MWh)	80	3,517
PV (MWh)	-4,430	-5,479
Total (kWh)	31,853	82,389
Average Load		
Building (kW)	1,273	2,892
Water (kW)	235	622
EV Chargers (MWh)	3	147
PV (MWh)	-185	-228
Total (kW)	1,327	3,433
Peak Load Calculation		
Peak Load (kW) ²	2,503	6,103
Systemwide Peak Load (MW)		5,820
Percent of Peak		0.105%

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

² Peak Load is conservatively calculated without any reductions from removal of existing uses.

EMFAC Emission inventories for County

EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County Region: Los Angeles

Calendar Year: 2023 (Construction Start Year)

Season: Annual

Vehicle Classif	AC2011 Ca	Fuel_Gasoline		Fuel_DSL				
Region	CalYr	VehClass	MdlYr	Speed	Fuel	(1000 gallons/	day)	(1000 gallons/day)
Los Angeles	2023	HHDT	Aggregated	Aggregate	c Diesel		0.00	1127.80
Los Angeles	2023	HHDT	Aggregated	Aggregate	c Gasoline		0.82	0.00
Los Angeles	2023	B LDA	Aggregated	Aggregate	c Diesel		0.00	7.39
Los Angeles	2023	B LDA	Aggregated	Aggregate	c Gasoline	48	45.08	0.00
Los Angeles	2023	LDT1	Aggregated	Aggregate	c Diesel		0.00	0.12
Los Angeles	2023	LDT1	Aggregated	Aggregate	c Gasoline	4	97.89	0.00
Los Angeles	2023	LDT2	Aggregated	Aggregate	c Diesel		0.00	6.82
Los Angeles	2023	LDT2	Aggregated	Aggregate	c Gasoline	28	16.72	0.00
Los Angeles	2023	LHDT1	Aggregated	Aggregate	c Diesel		0.00	118.37
Los Angeles	2023	LHDT1	Aggregated	Aggregate	c Gasoline	3	79.01	0.00
Los Angeles	2023	LHDT2	Aggregated	Aggregate	c Diesel		0.00	62.09
Los Angeles	2023	LHDT2	Aggregated	Aggregate	c Gasoline		62.66	0.00
Los Angeles	2023	B MCY	Aggregated	Aggregate	c Gasoline		23.59	0.00
Los Angeles	2023	MDV	Aggregated	Aggregate	c Diesel		0.00	18.92
Los Angeles	2023	MDV	Aggregated	Aggregate	c Gasoline	19	44.85	0.00
Los Angeles	2023	в мн	Aggregated	Aggregate	c Diesel		0.00	5.69
Los Angeles	2023	в мн	Aggregated	Aggregate	c Gasoline		32.88	0.00
Los Angeles	2023	MHDT	Aggregated	Aggregate	c Diesel		0.00	288.96
Los Angeles	2023	MHDT	Aggregated	Aggregate	c Gasoline	1	63.55	0.00
Los Angeles	2023	OBUS	Aggregated	Aggregate	c Diesel		0.00	24.73
Los Angeles	2023	OBUS	Aggregated	Aggregate	c Gasoline		31.50	0.00
Los Angeles	2023	SBUS	Aggregated	Aggregate	c Diesel		0.00	5.64
Los Angeles	2023	SBUS	Aggregated	Aggregate	c Gasoline		7.17	0.00
Los Angeles	2023	UBUS	Aggregated	Aggregate	c Diesel		0.00	1.18
Los Angeles	2023	UBUS	Aggregated	Aggregate	c Gasoline		6.81	0.00
Los Angeles	2023	B LDA	Aggregated	Aggregate	c Plug-in Hybrid		75.01	0.00
Los Angeles	2023	LDT1	Aggregated	Aggregate	c Plug-in Hybrid		0.27	0.00
Los Angeles	2023	LDT2	Aggregated	Aggregate	c Plug-in Hybrid		9.96	0.00
Los Angeles	2023	MDV	Aggregated	Aggregate	c Plug-in Hybrid		5.25	0.00
						3,979,596	5,395	608,715,539
			Fuel Usa	ge for Proje	ect Construction	27	4,297	780,317

Percentage of County for Construction

0.0069%

0.128%

EMFAC Emission inventories for County

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County Region: Los Angeles

Calendar Year: 2026 (Operational Start Year)

Season: Annual

Vehicle Classif	ication: EMFAC2011 C	ategories	Fuel_Gasoline	Fuel_DSL
Region	CalYr VehClass	MdlYr Speed Fuel	(1000 gallons/day)	(1000 gallons/day)
Los Angeles	2026 HHDT	Aggregatec Aggregatec Diesel	0.00	1137.39
Los Angeles	2026 HHDT	Aggregatec Aggregatec Gasoline	0.60	0.00
Los Angeles	2026 LDA	Aggregatec Aggregatec Diesel	0.00	5.43
Los Angeles	2026 LDA	Aggregatec Aggregatec Gasoline	4348.93	0.00
Los Angeles	2026 LDT1	Aggregatec Aggregatec Diesel	0.00	0.08
Los Angeles	2026 LDT1	Aggregatec Aggregatec Gasoline	452.49	0.00
Los Angeles	2026 LDT2	Aggregatec Aggregatec Diesel	0.00	7.36
Los Angeles	2026 LDT2	Aggregatec Aggregatec Gasoline	2800.01	0.00
Los Angeles	2026 LHDT1	Aggregatec Aggregatec Diesel	0.00	
Los Angeles	2026 LHDT1	Aggregatec Aggregatec Gasoline	358.04	0.00
Los Angeles	2026 LHDT2	Aggregatec Aggregatec Diesel	0.00	71.32
Los Angeles	2026 LHDT2	Aggregatec Aggregatec Gasoline	58.26	0.00
Los Angeles	2026 MCY	Aggregatec Aggregatec Gasoline	24.78	0.00
Los Angeles	2026 MDV	Aggregatec Aggregatec Diesel	0.00	18.51
Los Angeles	2026 MDV	Aggregatec Aggregatec Gasoline	1895.54	0.00
Los Angeles	2026 MH	Aggregatec Aggregatec Diesel	0.00	6.30
Los Angeles	2026 MH	Aggregatec Aggregatec Gasoline	31.54	0.00
Los Angeles	2026 MHDT	Aggregatec Aggregatec Diesel	0.00	291.63
Los Angeles	2026 MHDT	Aggregatec Aggregatec Gasoline	147.17	0.00
Los Angeles	2026 OBUS	Aggregatec Aggregatec Diesel	0.00	24.28
Los Angeles	2026 OBUS	Aggregatec Aggregatec Gasoline	26.17	0.00
Los Angeles	2026 SBUS	Aggregatec Aggregatec Diesel	0.00	5.06
Los Angeles	2026 SBUS	Aggregatec Aggregatec Gasoline	7.54	0.00
Los Angeles	2026 UBUS	Aggregatec Aggregatec Diesel	0.00	0.93
Los Angeles	2026 UBUS	Aggregatec Aggregatec Gasoline	6.65	0.00
Los Angeles	2026 LDA	Aggregatec Aggregatec Plug-in Hybric	d 82.30	0.00
Los Angeles	2026 LDT1	Aggregatec Aggregatec Plug-in Hybri	d 0.70	0.00
Los Angeles	2026 LDT2	Aggregatec Aggregatec Plug-in Hybric	d 14.79	0.00
Los Angeles	2026 MDV	Aggregatec Aggregatec Plug-in Hybric	d 8.49	0.00

	3,707,562,992	621,640,500
Net Fuel Usage for Project Operation	545,262	90,476
Percentage of County for Operation	0.0147%	0.0146%