

# **Appendix E**

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## Energy Resources Calculations



# Cheval Blanc

## Draft EIR

### Appendix E

## Energy Analysis Spreadsheets

- Appendix E: Energy Analysis
  - Energy Consumption Summary
  - Construction Energy Usage
    - On-site Power
    - Off-Road Equipment
    - On-Road Fuel Usage Rates
    - On-Road Vehicles
    - Construction Water Usage
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    - Buildout without Project Design Features
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    - Total County Fuel Consumption

## Cheval Blanc - Beverly Hills

### Summary of Energy Use During Construction

<b>Electricity</b>	
Water Consumption	1,131 kWh
Temporary Power (lighting, tools)	42,840 kWh
<b>Total:</b>	<b>43,971 kWh</b>
<b>Gasoline</b>	
On Road	138,384 Gallons
Off Road	0 Gallons
<b>Total:</b>	<b>138,384 Gallons</b>
<b>Diesel</b>	
On Road	87,000 Gallons
Off Road	85,688 Gallons
<b>Total:</b>	<b>172,689 Gallons</b>
<b>Total Mobile</b>	<b>311,073</b>

### Summary of Energy Use During Operations

	Baseline (Buildout)	Buildout Without Project Features	Buildout With Project Features		Percent Reduction due to Project Features	Project Without Project Features - Baseline (Buildout)	Project (Buildout) - Baseline (Buildout)	Reduction (%)
<b>Electricity</b>								
Electricity (building)	408,321	2,961,130	2,741,274	kWh/year	-7%	2,552,809	2,332,953	-9%
Electricity (water)	38,255	154,912	154,912	kWh/year	0%	116,657	116,657	0%
<b>Electricity Total</b>	<b>446,576</b>	<b>3,116,042</b>	<b>2,896,186</b>	<b>kWh/year</b>	<b>-7%</b>	<b>2,669,466</b>	<b>2,449,610</b>	<b>-8%</b>
<b>Natural Gas</b>								
Building	47,241	8,842,850	8,842,850	cu ft/year	0%	8,795,609	8,795,609	0%
<b>Natural Gas Total</b>	<b>47,241</b>	<b>8,842,850</b>	<b>8,842,850</b>	<b>cu ft/year</b>	<b>0%</b>	<b>8,795,609</b>	<b>8,795,609</b>	<b>0%</b>
<b>Mobile</b>								
Gasoline	25,821	238,344	79,249	Gallons/year	-67%	212,523	53,429	-75%
Diesel	5,229	48,272	16,050	Gallons/year	-67%	43,042	10,821	-75%
<b>Mobile Total</b>	<b>31,050</b>	<b>286,616</b>	<b>95,300</b>	<b>Gallons/year</b>	<b>-67%</b>	<b>255,566</b>	<b>64,250</b>	<b>-75%</b>

Construction Electricity Usage (kWh)	43,971
Operational Electricity Usage (kWh/year)	2,449,610
Construction vs. Operational Electricity Usage	1.80%

## Construction Electricity Usage

### Construction Electricity Usage

#### Caterpillar 40-C4.4 Generator<sup>a</sup>

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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)	850
Total Construction (kWh)	42,840
Total Construction (MWh)	42.8

<sup>a</sup><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	
Phase 1 - Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	22	312	
Phase 1 - Demolition	Excavators	2	8	158	0.38	0.6	22	634	
Phase 1 - Demolition	Paving Equipment	2	8	132	0.36	0.6	22	502	
Phase 1 - Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	22	0	
Phase 1 - Demolition	Rubber Tired Loaders	1	8	203	0.36	0.6	22	386	
Phase 1 - Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	22	189	
Phase 1 - Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	32	1,697	
Phase 1 - Grading	Cranes	2	8	231	0.29	0.6	32	1,029	
Phase 1 - Grading	Excavators	2	8	158	0.38	0.6	32	922	
Phase 1 - Grading	Graders	0	8	187	0.41	0.6	32	0	
Phase 1 - Grading	Pumps	2	8	84	0.74	0.6	32	955	
Phase 1 - Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	32	0	
Phase 1 - Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	32	551	
Phase 1 - Building Construction	Aerial Lifts	2	8	63	0.31	0.6	109	1,022	
Phase 1 - Building Construction	Cranes	1	8	231	0.29	0.6	109	1,752	
Phase 1 - Building Construction	Forklifts	0	8	89	0.2	0.6	109	0	
Phase 1 - Building Construction	Generator Sets	0	8	84	0.74	0.6	109	0	
Phase 1 - Building Construction	Pumps	2	8	84	0.74	0.6	109	3,252	
Phase 1 - Building Construction	Rough Terrain Forklifts	1	8	100	0.4	0.6	109	1,046	
Phase 1 - Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	109	1,878	
Phase 1 - Building Construction	Welders	1	8	46	0.45	0.6	109	542	
Phase 2 - Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	23	326	
Phase 2 - Demolition	Excavators	2	8	158	0.38	0.6	23	663	
Phase 2 - Demolition	Paving Equipment	2	8	132	0.36	0.6	23	525	
Phase 2 - Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	23	0	
Phase 2 - Demolition	Rubber Tired Loaders	1	8	203	0.36	0.6	23	403	
Phase 2 - Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	23	198	
Phase 2 - Excavation	Bore/Drill Rigs	2	8	221	0.5	0.6	82	4,349	
Phase 2 - Excavation	Cranes	2	8	231	0.29	0.6	82	2,637	
Phase 2 - Excavation	Excavators	2	8	158	0.38	0.6	82	2,363	
Phase 2 - Excavation	Graders	0	8	187	0.41	0.6	82	0	
Phase 2 - Excavation	Pumps	2	8	84	0.74	0.6	82	2,447	
Phase 2 - Excavation	Rubber Tired Dozers	0	8	247	0.4	0.6	82	0	
Phase 2 - Excavation	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	82	1,413	
Phase 2 - Garage Construction	Aerial Lifts	2	8	63	0.31	0.6	49	459	
Phase 2 - Garage Construction	Cranes	1	8	231	0.29	0.6	49	788	
Phase 2 - Garage Construction	Forklifts	0	8	89	0.2	0.6	49	0	
Phase 2 - Garage Construction	Generator Sets	0	8	84	0.74	0.6	49	0	
Phase 2 - Garage Construction	Pumps	2	8	84	0.74	0.6	49	1,462	
Phase 2 - Garage Construction	Rough Terrain Forklifts	1	8	100	0.4	0.6	49	470	
Phase 2 - Garage Construction	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	49	844	
Phase 2 - Garage Construction	Welders	1	8	46	0.45	0.6	49	243	
Phase 2 - Hotel Construction	Aerial Lifts	2	8	63	0.31	0.6	544	5,100	
Phase 2 - Hotel Construction	Air Compressors	1	8	78	0.48	0.6	544	4,888	
Phase 2 - Hotel Construction	Concrete/Industrial Saws	1	8	81	0.73	0.6	544	7,720	
Phase 2 - Hotel Construction	Cranes	1	8	231	0.29	0.6	544	8,746	
Phase 2 - Hotel Construction	Forklifts	2	8	89	0.2	0.6	544	4,648	
Phase 2 - Hotel Construction	Generator Sets	1	8	84	0.74	0.6	544	8,116	
Phase 2 - Hotel Construction	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	544	4,686	
Phase 2 - Hotel Construction	Welders	1	8	46	0.45	0.6	544	2,703	
Architectural Coatings	Air Compressors	1	6	78	0.48	0.6	132	890	
Paving	Cement and Mortar Mixers	1	8	9	0.56	0.6	66	80	
Paving	Pavers	0	8	130	0.42	0.6	66	0	
Paving	Paving Equipment	1	8	132	0.36	0.6	66	753	
Paving	Rollers	1	8	80	0.38	0.6	66	482	
Paving	Trenchers	1	8	78	0.5	0.6	66	618	
<b>Total Diesel Usage for Construction (Offr</b>								<b>85,688.4</b>	<b>gallons of diesel fuel</b>

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.

EMFAC2014 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2022

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	6,370,883	246,404,319	30,101,253	7,990	0	30.8
South Coast	LDT1	GAS	Aggregate	716,397	26,563,675	3,305,301	1,003	0	26.5
South Coast	LDT2	GAS	Aggregate	2,182,002	82,381,240	10,234,301	3,340	0	24.7
<b>Construction Worker Trip (Composite LDA/LDT1/LDT2):</b>									<b>28.2</b>
South Coast	HHDT	DSL	Aggregate	98,508	11,795,119	994,225	0	1763.0	<b>6.7</b>

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
Phase 1 - Demolition	50	60	22	1100	1320	0	14.7	40	20	16170	52800	0	0.6	344.0	4,735.1
Phase 1 - Grading	136	120	32	4352	3840	0	14.7	40	20	63974.4	153600	0	0.6	1,360.8	13,774.9
Phase 1 - Building Construction	200	100	109	21800	10900	0	14.7	6.9	20	320460	75210	0	0.6	6,816.7	6,744.9
Phase 2 - Demolition	50	60	23	1150	1380	0	14.7	40	20	16905	55200	0	0.6	359.6	4,950.4
Phase 2 - Excavation	136	120	82	11152	9840	0	14.7	40	20	163934.4	393600	0	0.6	3,487.2	35,298.2
Phase 2 - Garage Construction	200	100	49	9800	4900	0	14.7	6.9	20	144060	33810	0	0.6	3,064.4	3,032.1
Phase 2 - Hotel Construction	650	50	544	353600	27200	0	14.7	6.9	20	5197920	187680	0	0.6	110,568.8	16,831.2
Architectural Coatings	300	20	132	39600	2640	0	14.7	6.9	20	582120	18216	0	0.6	12,382.7	1,633.6
Paving	50	20	66	3300	1320	0	14.7	6.9	20	48510	9108	0	0.6	1,031.9	816.8
<b>Total:</b>													<b>138,384.2</b>	<b>87,000.5</b>	

Worker Miles per gallon= 28.21 gasoline  
 Vendor/Haul miles per gallon= 6.69 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)
Phase 1 - Demolition	22	0.5	33,220	323
Phase 1 - Grading	32	0.5	48,320	470
Phase 1 - Building Construction	109	0.0	0	0
Phase 2 - Demolition	23	0.5	34,730	338
Phase 2 - Excavation	82	0.5	123,820	1,204
Phase 2 - Garage Construction	49	0	0	0
Phase 2 - Hotel Construction	544	0	0	0
Architectural Coatings	132	0	0	0
Paving	66	0	0	0
<b>Total:</b>			<b>116,270</b>	<b>1,131</b>

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).



EMFAC2014 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2026

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	2026	Annual	HHDT	DSL	Aggregated	Aggregated	105,675	12,751,065	1,083,231	0.00	1,706.12			
South Coast	2026	Annual	HHDT	GAS	Aggregated	Aggregated	72	9,056	1,448	1.98	0.00			
South Coast	2026	Annual	LDA	DSL	Aggregated	Aggregated	69,487	2,662,198	331,543	0.00	49.43			
South Coast	2026	Annual	LDA	GAS	Aggregated	Aggregated	6,704,944	246,806,990	31,652,207	7,181.31	0.00			
South Coast	2026	Annual	LDT1	DSL	Aggregated	Aggregated	271	6,523	972	0.00	0.27			
South Coast	2026	Annual	LDT1	GAS	Aggregated	Aggregated	797,972	28,250,579	3,694,973	965.17	0.00			
South Coast	2026	Annual	LDT2	DSL	Aggregated	Aggregated	18,736	731,082	91,137	0.00	18.48			
South Coast	2026	Annual	LDT2	GAS	Aggregated	Aggregated	2,335,277	84,175,951	10,957,538	2,984.26	0.00			
South Coast	2026	Annual	LHDT1	DSL	Aggregated	Aggregated	139,023	5,295,410	1,748,738	0.00	230.79			
South Coast	2026	Annual	LHDT1	GAS	Aggregated	Aggregated	168,489	5,874,475	2,510,232	530.41	0.00			
South Coast	2026	Annual	LHDT2	DSL	Aggregated	Aggregated	55,913	2,060,893	703,310	0.00	99.61			
South Coast	2026	Annual	LHDT2	GAS	Aggregated	Aggregated	29,463	989,949	438,956	102.88	0.00			
South Coast	2026	Annual	MCY	GAS	Aggregated	Aggregated	322,523	2,094,696	645,046	58.10	0.00			
South Coast	2026	Annual	MDV	DSL	Aggregated	Aggregated	42,426	1,571,040	205,257	0.00	51.68			
South Coast	2026	Annual	MDV	GAS	Aggregated	Aggregated	1,572,718	53,374,931	7,287,784	2,344.22	0.00			
South Coast	2026	Annual	MH	DSL	Aggregated	Aggregated	13,541	124,597	1,354	0.00	11.23			
South Coast	2026	Annual	MH	GAS	Aggregated	Aggregated	32,760	313,616	3,277	57.32	0.00			
South Coast	2026	Annual	MHDT	DSL	Aggregated	Aggregated	134,072	8,355,583	1,362,242	0.00	713.12			
South Coast	2026	Annual	MHDT	GAS	Aggregated	Aggregated	25,396	1,292,911	508,129	240.62	0.00			
South Coast	2026	Annual	OBUS	DSL	Aggregated	Aggregated	4,742	345,782	46,109	0.00	37.71			
South Coast	2026	Annual	OBUS	GAS	Aggregated	Aggregated	5,826	225,084	116,563	42.00	0.00			
South Coast	2026	Annual	SBUS	DSL	Aggregated	Aggregated	6,505	205,751	75,067	0.00	25.74			
South Coast	2026	Annual	SBUS	GAS	Aggregated	Aggregated	3,163	121,040	12,653	12.79	0.00			
South Coast	2026	Annual	UBUS	DSL	Aggregated	Aggregated	6	776	25	0.00	0.14			
South Coast	2026	Annual	UBUS	GAS	Aggregated	Aggregated	975	91,363	3,900	16.60	0.00			
												<b>MPG</b>	Gallons Per Mile	
							Totals	457,731,340.49			14,537.67	2,944.32	<b>26.2</b>	0.04
							Total (GAS)	423,620,640.66	0.93				<b>29.1</b>	0.03
							Total (DSL)	34,110,699.83	0.07				<b>11.6</b>	0.09

Baseline Year

Calendar Year: 2021

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	2021	Annual	HHDT	DSL	Aggregated	Aggregated	96,727	11,545,820	974,406	0.00	1,774.20			
South Coast	2021	Annual	HHDT	GAS	Aggregated	Aggregated	81	7,629	1,628	1.89	0.00			
South Coast	2021	Annual	LDA	DSL	Aggregated	Aggregated	53,710	2,185,239	254,840	0.00	46.12			
South Coast	2021	Annual	LDA	GAS	Aggregated	Aggregated	6,276,234	246,181,276	29,647,186	8,195.76	0.00			
South Coast	2021	Annual	LDT1	DSL	Aggregated	Aggregated	406	9,520	1,420	0.00	0.43			
South Coast	2021	Annual	LDT1	GAS	Aggregated	Aggregated	695,146	26,066,042	3,200,417	1,009.57	0.00			
South Coast	2021	Annual	LDT2	DSL	Aggregated	Aggregated	12,472	548,394	61,718	0.00	15.84			
South Coast	2021	Annual	LDT2	GAS	Aggregated	Aggregated	2,144,804	81,991,236	10,052,342	3,441.72	0.00			
South Coast	2021	Annual	LHDT1	DSL	Aggregated	Aggregated	109,610	4,489,670	1,378,756	0.00	211.28			
South Coast	2021	Annual	LHDT1	GAS	Aggregated	Aggregated	172,430	6,230,805	2,568,953	598.07	0.00			
South Coast	2021	Annual	LHDT2	DSL	Aggregated	Aggregated	43,242	1,730,629	543,933	0.00	90.14			
South Coast	2021	Annual	LHDT2	GAS	Aggregated	Aggregated	28,914	1,014,315	430,773	111.80	0.00			
South Coast	2021	Annual	MCY	GAS	Aggregated	Aggregated	279,209	1,958,677	558,419	53.90	0.00			
South Coast	2021	Annual	MDV	DSL	Aggregated	Aggregated	29,604	1,222,112	145,605	0.00	46.02			
South Coast	2021	Annual	MDV	GAS	Aggregated	Aggregated	1,520,877	54,421,173	7,026,646	2,808.58	0.00			
South Coast	2021	Annual	MH	DSL	Aggregated	Aggregated	11,829	115,366	1,183	0.00	11.04			
South Coast	2021	Annual	MH	GAS	Aggregated	Aggregated	34,556	327,721	3,457	64.52	0.00			
South Coast	2021	Annual	MHDT	DSL	Aggregated	Aggregated	119,075	7,535,147	1,192,855	0.00	727.46			
South Coast	2021	Annual	MHDT	GAS	Aggregated	Aggregated	24,684	1,325,210	493,870	264.51	0.00			
South Coast	2021	Annual	OBUS	DSL	Aggregated	Aggregated	4,131	308,887	40,390	0.00	37.68			
South Coast	2021	Annual	OBUS	GAS	Aggregated	Aggregated	5,845	246,477	116,955	49.58	0.00			
South Coast	2021	Annual	SBUS	DSL	Aggregated	Aggregated	6,314	199,477	72,863	0.00	26.53			
South Coast	2021	Annual	SBUS	GAS	Aggregated	Aggregated	2,415	98,099	9,660	10.85	0.00			
South Coast	2021	Annual	UBUS	DSL	Aggregated	Aggregated	14	1,478	57	0.00	0.25			
South Coast	2021	Annual	UBUS	GAS	Aggregated	Aggregated	944	88,729	3,776	18.46	0.00			
												<b>MPG</b>	Gallons Per Mile	
							Totals	449,849,130.02			16,629.19	2,986.99	<b>22.9</b>	0.04
							Total (GAS)	419,957,390.60	0.93				<b>25.3</b>	0.04
							Total (DSL)	29,891,739.43	0.07				<b>10.0</b>	0.10

**Cheval Blanc - Existing Operations Buildout Year  
Los Angeles-South Coast County, Annual**

**Land Use Details**

<i>Land Uses</i>	<i>Size</i>	<i>Metric</i>	<i>Lot Acreage</i>	<i>Floor Surface Area</i>	<i>Population</i>
Strip Mall	30.25	1000sqft	0.69	30,246.00	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Annual VMT</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
Strip Mall	1,142	1,083	526	812,989
<b>Total</b>	<b>1,142</b>	<b>1,083</b>	<b>526</b>	<b>812,989</b>

**Gasoline and Diesel Usage**

	<i>Buildout Year</i>		<i>Existing (Baseline) Year</i>	
	<i>Gasoline</i>	<i>Diesel</i>	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	29.1	11.6	25.3	10.0
<i>% Fleet Mix</i>	92.5%	7.5%	93.4%	6.6%
<b>Total (Gallons):</b>	<b>25,821</b>	<b>5,229</b>	<b>30,053</b>	<b>5,398</b>

**Energy by Land Use - Natural Gas**

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Strip Mall	49,603	47,241
<b>Total</b>	<b>49,603</b>	<b>47,241</b>

**Energy by Land Use - Electricity**

<i>Land Uses</i>	<i>kWH/yr</i>
Strip Mall	408,321
<b>Total</b>	<b>408,321</b>

**Water Detail**

<i>Land Uses</i>	<i>Indoor Use</i>		<i>Outdoor</i>	<i>Electricity</i>
	<i>(Mgal)</i>	<i>Use (Mgal)</i>	<i>Use (Mgal)</i>	<i>Use (kWh/yr)</i>
Strip Mall	2.241	1.373	1.373	38,255
<b>Total</b>	<b>2.241</b>	<b>1.373</b>	<b>1.373</b>	<b>38,255</b>

Notes: 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).

**Cheval Blanc - Buildout Operations Without Project Features  
Los Angeles-South Coast County, Annual**

**Land Use Details**

<i>Land Uses</i>	<i>Size</i>	<i>Metric</i>	<i>Lot Acreage</i>	<i>Floor Surface Area</i>	<i>Population</i>
Enclosed Parking with Elevator	178.00	Space	1.60	71,200.00	0
Health Club	36.78	1000sqft	0.84	36,783.00	0
Hotel	115.00	Room	3.83	134,097.00	0
Quality Restaurant	25.09	1000sqft	0.58	25,094.00	0
Strip Mall	24.98	1000sqft	0.57	24,976.00	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Annual VMT</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
Enclosed Parking with Elevator	0	0	0	0
Health Club	368	233	299	240,857
Hotel	961	964	700	733,449
Quality Restaurant	2,104	2,207	1,688	2,931,094
Strip Mall	943	895	435	546,343
<b>Total</b>	<b>4,376</b>	<b>4,298</b>	<b>3,121</b>	<b>7,504,477</b>

**Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	29.1	11.6
<i>% Fleet Mix</i>	92.5%	7.5%
<b>Total (Gallons):</b>	<b>238,344</b>	<b>48,272</b>

**Energy by Land Use - Natural Gas**

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Enclosed Parking with Elevator	0.0	0
Health Club	615,564	586,251
Hotel	2,948,500	2,808,095
Quality Restaurant	5,682,840	5,412,229
Strip Mall	38,088	36,275
<b>Total</b>	<b>9,284,992</b>	<b>8,842,850</b>

**Energy by Land Use - Electricity**

<i>Land Uses</i>	<i>kWH/yr</i>
Enclosed Parking with Elevator	164,401
Health Club	400,015
Hotel	982,253
Quality Restaurant	1,087,300
Strip Mall	327,161
<b>Total</b>	<b>2,961,130</b>

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Health Club	1.740	1.067	29,710
Hotel	2.334	0.259	28,452
Quality Restaurant	6.093	0.389	71,477
Strip Mall	1.480	0.907	25,272
<b>Total</b>	<b>11.65</b>	<b>2.62</b>	<b>154,912</b>

Notes: 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).

**Cheval Blanc - Buildout Operations**  
**Los Angeles-South Coast County, Annual**

**Land Use Details**

<i>Land Uses</i>	<i>Size</i>	<i>Metric</i>	<i>Lot Acreage</i>	<i>Floor Surface Area</i>	<i>Population</i>
Enclosed Parking with Elevator	178.00	Space	1.60	71,200.00	0
Health Club	36.78	1000sqft	0.84	36,783.00	0
Hotel	115.00	Room	3.83	134,097.00	0
Quality Restaurant	25.09	1000sqft	0.58	25,094.00	0
Strip Mall	24.98	1000sqft	0.57	24,976.00	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Mitigated</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
Enclosed Parking with Elevator	0	0	0	0
Health Club	368	233	299	240,857
Hotel	961	964	700	733,449
Quality Restaurant	2,104	2,207	1,688	974,589
Strip Mall	943	895	435	546,343
<b>Total</b>	<b>4,376</b>	<b>4,298</b>	<b>3,121</b>	<b>2,495,239</b>

**Mitigated Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	29.1	11.6
<i>% Fleet Mix</i>	92.5%	7.5%
<b>Total (Gallons):</b>	<b>79,249</b>	<b>16,050</b>

**Energy by Land Use - Natural Gas (Mitigated)**

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Enclosed Parking with Elevator	0	0
Health Club	615,564	586,251
Hotel	2,948,500	2,808,095
Quality Restaurant	5,682,840	5,412,229
Strip Mall	38,088	36,275
<b>Total</b>	<b>9,284,992</b>	<b>8,842,850</b>

**Energy by Land Use - Electricity (Mitigated)**

<i>Land Uses</i>	<i>kWh/yr</i>
Enclosed Parking with Elevator	133,251
Health Club	371,508
Hotel	910,512
Quality Restaurant	1,037,930
Strip Mall	288,073
<b>Total</b>	<b>2,741,274</b>

Note: Reduction in electricity usage reflects implementation of 2019 Title 24 which is assumed to exceed 2016 Title 24 requirements by 10 percent for energy efficiency and 25% for lighting).

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Health Club	1.740	1.067	29,710
Hotel	2.334	0.259	28,452
Quality Restaurant	6.093	0.389	71,477
Strip Mall	1.480	0.907	25,272
<b>Total</b>	<b>11.65</b>	<b>2.62</b>	<b>154,912</b>

Notes: 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

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

Load Factor (%)<sup>1</sup> **52%**

### Project Electricity Demand (Operational)

Annual Demand	Baseline	
	(Existing)	Project
Building (MWh)	408	2,741
Water (MWh)	38	155
Total (MWh)	447	2,896

### Average Daily Demand

Building (kWh)	1,119	7,510
Water (kWh)	105	424
Total (kWh)	1,223	7,935

### Average Load

Building (kW)	47	313
Water (kW)	4	18
Total (kW)	51	331

### Peak Load Calculation

Peak Load (kW) <sup>2</sup>	94	619
Systemwide Peak Load (MW)		21,638
Percent of Peak		0.003%

<sup>1</sup>2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 2017. Page 11, Figure 6. Visual estimate.

<sup>2</sup>Peak Load is conservatively calculated without any reductions from removal of existing uses.

**EMFAC Emission inventories for County**

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2022** (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	2022	HHDT	Aggregatec	Aggregatec	DSL	0.00	1762.99
Los Angeles	2022	HHDT	Aggregatec	Aggregatec	GAS	1.88	0.00
Los Angeles	2022	LDA	Aggregatec	Aggregatec	DSL	0.00	47.39
Los Angeles	2022	LDA	Aggregatec	Aggregatec	GAS	7989.70	0.00
Los Angeles	2022	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.39
Los Angeles	2022	LDT1	Aggregatec	Aggregatec	GAS	1003.18	0.00
Los Angeles	2022	LDT2	Aggregatec	Aggregatec	DSL	0.00	16.65
Los Angeles	2022	LDT2	Aggregatec	Aggregatec	GAS	3339.89	0.00
Los Angeles	2022	LHDT1	Aggregatec	Aggregatec	DSL	0.00	217.11
Los Angeles	2022	LHDT1	Aggregatec	Aggregatec	GAS	583.23	0.00
Los Angeles	2022	LHDT2	Aggregatec	Aggregatec	DSL	0.00	92.89
Los Angeles	2022	LHDT2	Aggregatec	Aggregatec	GAS	110.13	0.00
Los Angeles	2022	MCY	Aggregatec	Aggregatec	GAS	54.92	0.00
Los Angeles	2022	MDV	Aggregatec	Aggregatec	DSL	0.00	47.80
Los Angeles	2022	MDV	Aggregatec	Aggregatec	GAS	2704.45	0.00
Los Angeles	2022	MH	Aggregatec	Aggregatec	DSL	0.00	11.12
Los Angeles	2022	MH	Aggregatec	Aggregatec	GAS	62.96	0.00
Los Angeles	2022	MHDT	Aggregatec	Aggregatec	DSL	0.00	720.16
Los Angeles	2022	MHDT	Aggregatec	Aggregatec	GAS	259.39	0.00
Los Angeles	2022	OBUS	Aggregatec	Aggregatec	DSL	0.00	37.46
Los Angeles	2022	OBUS	Aggregatec	Aggregatec	GAS	47.77	0.00
Los Angeles	2022	SBUS	Aggregatec	Aggregatec	DSL	0.00	26.42
Los Angeles	2022	SBUS	Aggregatec	Aggregatec	GAS	11.27	0.00
Los Angeles	2022	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.25
Los Angeles	2022	UBUS	Aggregatec	Aggregatec	GAS	18.40	0.00
						5,908,313,954	1,087,928,967
Fuel Usage for Project Construction						138,384	172,689
Percentage of County for Construction						0.0023%	0.016%

**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 Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2026	HHDT	Aggregatec	Aggregatec	DSL	0.00	1706.12
Los Angeles	2026	HHDT	Aggregatec	Aggregatec	GAS	1.98	0.00
Los Angeles	2026	LDA	Aggregatec	Aggregatec	DSL	0.00	49.43
Los Angeles	2026	LDA	Aggregatec	Aggregatec	GAS	7181.31	0.00
Los Angeles	2026	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.27
Los Angeles	2026	LDT1	Aggregatec	Aggregatec	GAS	965.17	0.00
Los Angeles	2026	LDT2	Aggregatec	Aggregatec	DSL	0.00	18.48
Los Angeles	2026	LDT2	Aggregatec	Aggregatec	GAS	2984.26	0.00
Los Angeles	2026	LHDT1	Aggregatec	Aggregatec	DSL	0.00	230.79
Los Angeles	2026	LHDT1	Aggregatec	Aggregatec	GAS	530.41	0.00
Los Angeles	2026	LHDT2	Aggregatec	Aggregatec	DSL	0.00	99.61
Los Angeles	2026	LHDT2	Aggregatec	Aggregatec	GAS	102.88	0.00
Los Angeles	2026	MCY	Aggregatec	Aggregatec	GAS	58.10	0.00
Los Angeles	2026	MDV	Aggregatec	Aggregatec	DSL	0.00	51.68
Los Angeles	2026	MDV	Aggregatec	Aggregatec	GAS	2344.22	0.00
Los Angeles	2026	MH	Aggregatec	Aggregatec	DSL	0.00	11.23
Los Angeles	2026	MH	Aggregatec	Aggregatec	GAS	57.32	0.00
Los Angeles	2026	MHDT	Aggregatec	Aggregatec	DSL	0.00	713.12
Los Angeles	2026	MHDT	Aggregatec	Aggregatec	GAS	240.62	0.00
Los Angeles	2026	OBUS	Aggregatec	Aggregatec	DSL	0.00	37.71
Los Angeles	2026	OBUS	Aggregatec	Aggregatec	GAS	42.00	0.00
Los Angeles	2026	SBUS	Aggregatec	Aggregatec	DSL	0.00	25.74
Los Angeles	2026	SBUS	Aggregatec	Aggregatec	GAS	12.79	0.00
Los Angeles	2026	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.14
Los Angeles	2026	UBUS	Aggregatec	Aggregatec	GAS	16.60	0.00
						5,306,248,478	1,074,676,685
Net Fuel Usage for Project Operation						53,429	10,821
Percentage of County for Operation						0.0010%	0.0010%