

Appendix F

Energy

Sportsman Lodge

Summary of Energy Use During Construction

Electricity	
Water Consumption	48,058 kWh
Temporary Power (lighting, tools)	40,824 kWh
Electric Construction Equipment	6,931 kWh
Total:	95,813 kWh
Gasoline	
On Road	98,828 Gallons
Off Road	0 Gallons
Total:	98,828 Gallons
Diesel	
On Road	391,144 Gallons
Off Road	151,971 Gallons
Total:	543,115 Gallons
Total Mobile	641,943

Summary of Energy Use During Operations

	Baseline (Buildout)	Buildout Without Project Features/MXD	Buildout With Project Features/MXD	Project Without Project Features/MXD	Project With Project Features/MXD		Percent Reduction due to Project Features
Electricity							
Electricity (building)	1,584,014	5,915,196	5,915,196	4,331,182	4,331,182	kWh/year	0%
Electricity (water)	59,098	247,853	247,853	188,755	188,755	kWh/year	0%
EV Chargers		3,011	3,011	3,011	3,011	kWh/year	
Electricity Total	1,643,112	6,166,060	6,166,060	4,522,948	4,522,948	kWh/year	0%
Natural Gas							
Natural Gas (building)	3,126,264	1,204,762	1,204,762	-1,921,502	-1,921,502		
Fireplaces		0	0	0	0		
Natural Gas Total	3,126,264	1,204,762	1,204,762	-1,921,502	-1,921,502	cu ft/year	0%
Mobile							
Gasoline	123,779	770,003	675,412	646,224	551,632	Gallons/year	-12%
Diesel	21,432	133,323	116,945	111,891	95,513	Gallons/year	-12%
Mobile Total	145,211	903,326	792,356	758,115	647,145	Gallons/year	-12%

Construction Electricity Usage

Sportsmen's Lodge Project

Caterpillar 40-C4.4 Generator^a

Peak Power Rating - Prime (kW)	36
Typical Load	70%
Average Output (kW)	25.2
Hours per Day	3
Average Daily Output (kWh)	75.6
Building Construction Phase Duration (days)	540
Total Construction (kWh)	40,824
Total Construction (MWh)	40.8

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

Sportsmen's Lodge Project

Phase Name	Off Road Equipment Type	Units	Hours	HP	Load Factor	Avg. Daily Factor	Number of Days	Diesel Fuel Usage
Phase 0 Demolition	Rubber Tired Dozers	1.00	8.00	367	0.40	0.6	46	1,621
Phase 0 Demolition	Excavators	3.00	8.00	158	0.38	0.6	46	1,989
Phase 0 Demolition	Concrete/Industrial Saws	2.00	8.00	33.0	0.73	0.6	46	532
Phase 1a Grading	Graders	3.00	8.00	148	0.41	0.6	114	4,981
Phase 1a Grading	Excavators	4.00	8.00	158	0.38	0.6	114	6,571
Phase 1a Grading	Tractors/Loaders/Backhoes	1.00	8.00	84.0	0.37	0.6	114	850
Phase 1a Grading	Rubber Tired Dozers	2.00	8.00	367	0.40	0.6	114	8,033
Landscape/Hardscape	Rollers	1.00	8.00	36.0	0.38	0.6	45	148
Phase 3 Demo	Excavators	1.00	8.00	158	0.38	0.6	42	605
Phase 3 Demo	Concrete/Industrial Saws	2.00	8.00	33.0	0.73	0.6	42	486
Phase 3 Grading	Graders	1.00	8.00	148	0.41	0.6	69	1,005
Phase 3 Grading	Excavators	2.00	8.00	158	0.38	0.6	69	1,989
Phase 3 Grading	Tractors/Loaders/Backhoes	1.00	8.00	84.0	0.37	0.6	69	515
Phase 3 Grading	Rubber Tired Dozers	1.00	8.00	367	0.40	0.6	69	2,431
Phase 1a Garage to Podium Structure	Forklifts	3.00	8.00	82.0	0.20	0.6	215	2,539
Phase 1a Garage to Podium Structure	Cranes	1.00	8.00	367	0.29	0.6	215	5,492
Phase 1a Garage to Podium Structure	Welders	2.00	8.00	46.0	0.45	0.6	215	2,136
Phase 1b Structure	Forklifts	3.00	8.00	82.0	0.20	0.6	305	3,601
Phase 1b Structure	Cranes	1.00	8.00	367	0.29	0.6	305	7,791
Phase 1b Structure	Welders	2.00	8.00	46.0	0.45	0.6	305	3,030
Phase 1b Structure	Tractors/Loaders/Backhoes	3.00	7.00	84.0	0.37	0.6	305	5,972
Phase 1a Garage to Podium Interior Build	Forklifts	3.00	8.00	82.0	0.20	0.6	110	1,299
Phase 1a Garage to Podium Interior Build	Cranes	1.00	8.00	367	0.29	0.6	110	2,810
Phase 1a Garage to Podium Interior Build	Welders	2.00	8.00	46.0	0.45	0.6	110	1,093
Phase 2 Structure	Forklifts	3.00	8.00	82.0	0.20	0.6	253	2,987
Phase 2 Structure	Cranes	1.00	8.00	367	0.29	0.6	253	6,462
Phase 2 Structure	Welders	2.00	8.00	46.0	0.45	0.6	253	2,514
Phase 1b Interior Build	Forklifts	3.00	8.00	82.0	0.20	0.6	139	1,641
Phase 1b Interior Build	Cranes	1.00	8.00	367	0.29	0.6	139	3,551
Phase 3 Structure	Forklifts	3.00	8.00	82.0	0.20	0.6	226	2,669
Phase 3 Structure	Cranes	1.00	8.00	367	0.29	0.6	226	5,773
Phase 3 Structure	Welders	2.00	8.00	46.0	0.45	0.6	226	2,246
Phase 2 Interior Build	Forklifts	3.00	8.00	82.0	0.20	0.6	142	1,677
Phase 2 Interior Build	Cranes	1.00	8.00	367	0.29	0.6	142	3,627
Phase 3 Interior Build	Forklifts	3.00	8.00	82.0	0.20	0.6	71	838
Phase 3 Interior Build	Cranes	1.00	8.00	367	0.29	0.6	71	1,814
Phase 0 Demolition	Other Construction Equipment	1.00	8.00	82.0	0.42	0.6	46	380
Phase 0 Demolition	Paving Equipment	2.00	8.00	89.0	0.36	0.6	46	707
Phase 0 Demolition	Tractors/Loaders/Backhoes	1.00	8.00	84.0	0.37	0.6	46	343
Phase 0 Demolition	Trenchers	1.00	8.00	40.0	0.50	0.6	46	221
Phase 3 Demo	Other Construction Equipment	1.00	8.00	82.0	0.42	0.6	42	347
Phase 3 Demo	Rubber Tired Loaders	1.00	8.00	150	0.36	0.6	42	544
Phase 3 Demo	Signal Boards	1.00	8.00	6.00	0.82	0.6	42	50
Phase 3 Demo	Skid Steer Loaders	1.00	8.00	71.0	0.37	0.6	42	265
Phase 3 Demo	Tractors/Loaders/Backhoes	1.00	8.00	84.0	0.37	0.6	42	313
Phase 3 Demo	Trenchers	1.00	8.00	40.0	0.50	0.6	42	202
Phase 0 Utility Relocation and Temp Parking	Concrete/Industrial Saws	2.00	8.00	33.0	0.73	0.6	0	0
Phase 0 Utility Relocation and Temp Parking	Forklifts	4.00	8.00	82.0	0.20	0.6	0	0
Phase 3 Site Prep	Excavators	1.00	8.00	158	0.38	0.6	44	634
Phase 3 Site Prep	Other Construction Equipment	1.00	8.00	82.0	0.42	0.6	44	364
Phase 3 Site Prep	Rubber Tired Loaders	1.00	8.00	150	0.36	0.6	44	570
Phase 1a Grading	Bore/Drill Rigs	2.00	8.00	83.0	0.50	0.6	114	2,271
Phase 1a Grading	Other Construction Equipment	1.00	8.00	82.0	0.42	0.6	114	942
Phase 1a Grading	Rubber Tired Loaders	2.00	8.00	150	0.36	0.6	114	2,955
Phase 1a Grading	Scrapers	2.00	8.00	423	0.48	0.6	114	11,110
Phase 1a Grading	Signal Boards	1.00	8.00	6.00	0.82	0.6	114	135
Phase 1a Grading	Welders	2.00	8.00	46.0	0.45	0.6	114	1,133
Phase 3 Grading	Bore/Drill Rigs	2.00	8.00	83.0	0.50	0.6	69	1,374
Phase 3 Grading	Other Construction Equipment	1.00	8.00	82.0	0.42	0.6	69	570
Phase 3 Grading	Rubber Tired Loaders	1.00	8.00	150	0.36	0.6	69	894
Phase 3 Grading	Signal Boards	1.00	8.00	6.00	0.82	0.6	69	81
Phase 3 Grading	Welders	1.00	8.00	46.0	0.45	0.6	69	343
Phase 1a Mat Foundation	Graders	1.00	8.00	148	0.41	0.6	88	1,282
Phase 1a Mat Foundation	Rubber Tired Dozers	1.00	8.00	367	0.40	0.6	88	3,100
Phase 1a Mat Foundation	Rubber Tired Loaders	1.00	8.00	150	0.36	0.6	88	1,140
Phase 1a Garage to Podium Structure	Cement and Mortar Mixers	3.00	8.00	10.0	0.56	0.6	215	867
Phase 1a Garage to Podium Structure	Concrete/Industrial Saws	1.00	8.00	33.0	0.73	0.6	215	1,243
Phase 1a Garage to Podium Structure	Plate Compactors	3.00	8.00	8.00	0.43	0.6	215	533
Phase 1a Garage to Podium Structure	Signal Boards	1.00	8.00	6.00	0.82	0.6	215	254
Phase 1a Garage to Podium Interior Build	Signal Boards	1.00	8.00	6.00	0.82	0.6	110	130
Phase 2 Structure	Cement and Mortar Mixers	3.00	8.00	10.0	0.56	0.6	253	1,020
Phase 2 Structure	Concrete/Industrial Saws	1.00	8.00	33.0	0.73	0.6	253	1,463
Phase 2 Structure	Plate Compactors	3.00	8.00	8.00	0.43	0.6	253	627
Phase 2 Structure	Signal Boards	1.00	8.00	6.00	0.82	0.6	253	299
Phase 1b Interior Build	Signal Boards	1.00	8.00	6.00	0.82	0.6	139	164
Phase 3 Structure	Cement and Mortar Mixers	3.00	8.00	10.0	0.56	0.6	226	911
Phase 3 Structure	Concrete/Industrial Saws	1.00	8.00	33.0	0.73	0.6	226	1,307
Phase 3 Structure	Plate Compactors	3.00	8.00	8.00	0.43	0.6	226	560
Phase 3 Structure	Signal Boards	1.00	8.00	6.00	0.82	0.6	226	267
Phase 3 Structure	Welders	2.00	8.00	46.0	0.45	0.6	226	2,246
Phase 2 Interior Build	Signal Boards	1.00	8.00	6.00	0.82	0.6	142	168
Phase 3 Interior Build	Signal Boards	1.00	8.00	6.00	0.82	0.6	71	84
Landscape/Hardscape	Cement and Mortar Mixers	1.00	8.00	10.0	0.56	0.6	45	60
Landscape/Hardscape	Concrete/Industrial Saws	1.00	8.00	33.0	0.73	0.6	45	260
Landscape/Hardscape	Other Construction Equipment	1.00	8.00	82.0	0.42	0.6	45	372
Landscape/Hardscape	Plate Compactors	1.00	8.00	8.00	0.43	0.6	45	37
Landscape/Hardscape	Signal Boards	1.00	8.00	6.00	0.82	0.6	45	53
Landscape/Hardscape	Skid Steer Loaders	1.00	8.00	71.0	0.37	0.6	45	284

Landscape/Hardscape	Tractors/Loaders/Backhoes	1.00	8.00	84.0	0.37	0.6	45	336	
Landscape/Hardscape	Trenchers	1.00	8.00	40.0	0.50	0.6	45	216	
Phase 1a Mat Foundation	Signal Boards	1.00	8.00	6.00	0.82	0.6	88	104	
Phase 1b Structure	Cement and Mortar Mixers	3.00	8.00	10.0	0.56	0.6	305	1,230	
Phase 1b Structure	Plate Compactors	3.00	8.00	8.00	0.43	0.6	305	755	
Phase 1b Structure	Signal Boards	1.00	8.00	6.00	0.82	0.6	305	360	
Landscape/Hardscape	Forklifts	1.00	8.00	82.0	0.20	0.6	45	177	
Total Diesel Usage for Construction (Offn								151,971.0	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.

Sportsmen's Lodge Project

Region Type: Air Basin

Region: South Coast

Calendar Year:

2023

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	4,079,718	153,812,692	19,249,547	4,944	0	31.1
South Coast	LDT1	GAS	Aggregate	480,760	17,733,494	2,225,423	662	0	26.8
South Coast	LDT2	GAS	Aggregate	1,420,578	53,205,335	6,674,513	2,112	0	25.2
Construction Worker Trip (Composite LDA/LDT1/LDT2):									28.6
South Coast	HHDT	DSL	Aggregate	59,068	7,175,177	592,244	0	1026.9	7.0

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.

Sportsmen's Lodge Project

Phase Name	Daily Woker Trips	Daily Vendor Trips	Daily Haul 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 0 Demolition	40	4	40	46	1840	184	1840	18.5	10.2	30	34040	1876.8	55200	0.6	715.3	6,165.5
Phase 0B Utility Relocation, and Temp Pa	30	6	0	30	900	180	0	18.5	10.2	20	16650	1836	0	0.6	349.9	157.7
Phase 1a Grading	110	10	580	114	12540	1140	66120	18.5	10.2	30	231990	11628	1983600	0.6	4,874.9	250,829.8
Phase 1a Mat Foundation	130	30	0	88	11440	2640	0	18.5	10.2	20	211640	26928	0	0.6	4,447.3	2,312.4
Phase 1a Garage to Podium Structure	120	120	0	215	25800	25800	0	18.5	10.2	20	477300	263160	0	0.6	10,029.7	22,598.6
Phase 1b Structure	120	60	0	305	36600	18300	0	18.5	10.2	20	677100	186660	0	0.6	14,228.2	16,029.2
Phase 1a Garage to Podium Interior Build	120	60	0	110	13200	6600	0	18.5	10.2	20	244200	67320	0	0.6	5,131.5	5,781.0
Phase 2 Structure	120	60	0	253	30360	15180	0	18.5	10.2	20	561660	154836	0	0.6	11,802.4	13,296.4
Architectural Coating	0	0	0	330	0	0	0	18.5	10.2	20	0	0	0	0.6	0.0	0.0
Phase 3 Demo	40	0	40	42	1680	0	1680	18.5	10.2	20	31080	0	33600	0.6	653.1	1,154.1
Phase 3 Grading	80	10	300	69	5520	690	20700	18.5	10.2	30	102120	7038	621000	0.6	2,145.9	13,047.5
Phase 3 Site Prep	40	40	20	44	1760	1760	880	18.5	10.2	100	32560	17952	88000	0.6	684.2	14,136.4
Phase 1b Interior Build	300	60	0	139	41700	8340	0	18.5	10.2	20	771450	85068	0	0.6	16,210.9	7,305.1
Phase 3 Structure	80	120	0	226	18080	27120	0	18.5	10.2	20	334480	276624	0	0.6	7,028.6	23,754.8
Phase 2 Interior Build	300	60	0	142	42600	8520	0	18.5	10.2	20	788100	86904	0	0.6	16,560.7	7,462.8
Landscape/Hardscape	40	20	0	45	1800	900	0	18.5	10.2	20	33300	9180	0	0.6	699.7	788.3
Phase 3 Interior Build	100	60	0	71	7100	4260	0	18.5	10.2	20	131350	43452	0	0.6	2,760.1	3,731.4
Phase 1a Mat Foundation Pour Day	130	296	0	10	1300	2960	0	18.5	10.2	20	24050	30192	0	0.6	505.4	2,592.7
Total:														98,827.9	391,143.8	

Worker Miles per gallon= 28.55 gasoline
 Vedor/Haul miles per gallon= 6.99 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)

Sportsmen's Lodge Project

Phase	Days	Average Daily Acreage Disturbed	Gallons Per Year	Electricity (kWhr)
Phase 0 Demolition	46	5.0	694,600	6,756
Phase 0B Utility Relocation, and Temp	30	5.0	453,000	4,406
Phase 1a Grading	114	5.0	1,721,400	16,744
Phase 1a Mat Foundation	88	1.0	265,760	2,585
Phase 1a Garage to Podium Structure	215	0.0	0	0
Phase 1b Structure	305	0.0	0	0
Phase 1a Garage to Podium Interior Bu	110	0.0	0	0
Phase 2 Structure	253	0.0	0	0
Architectural Coating	330	1.0	996,600	9,694
Phase 3 Demo	42	1.0	126,840	1,234
Phase 3 Grading	69	2.0	416,760	4,054
Phase 3 Site Prep	44	2.0	265,760	2,585
Phase 1b Interior Build	139	0.0	0	0
Phase 3 Structure	226	0.0	0	0
Phase 2 Interior Build	142	0.0	0	0
Landscape/Hardscape	45	0.0	0	0
Phase 3 Interior Build	71	0.0	0	0
Phase 1a Mat Foundation Pour Day	10	0.0	0	0
Total:			4,940,720	48,058

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).

**Sportsmen's Lodge Project
Los Angeles-South Coast County, Annual**

Trip Summary Information

<i>Total</i>	<i>Average Daily Trip Rate</i>			<i>Annual VMT</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
Total	1,416.00	268.00	138.00	3,494,040

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>	26.4	10.8	24.9	9.9
<i>% Fleet Mix</i>	93.4%	6.6%	93.8%	6.2%
Total (Gallons):	123,779	21,432	131,567	22,041

Energy by Land Use - Natural Gas

<i>Total</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Total	3,282,577	3,126,264

Energy by Land Use - Electricity

<i>Land Uses</i>	<i>kWH/yr</i>
Total	1,584,014

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>
Total	5.07	0.28	0.28	59,098

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).

**Sportsmen's Lodge Project
Los Angeles-South Coast County, Annual**

	Average Daily Trip Rate			Annual VMT
	Weekday	Saturday	Sunday	
Project	6,576	6,750	6,263	21,735,645
Total	6,576	6,750	6,263	21,735,645

Gasoline and Diesel Usage

	Gasoline	Diesel
Miles/Gallon	26.4	10.8
% Fleet Mix	93.4%	6.6%
Total (Gallons):	770,003	133,323

Energy by Land Use - Natural Gas

Land Uses	kBTU/yr	cu ft/year
	1,265,000	1,204,762
Total	1,265,000	1,204,762

Energy by Land Use - Electricity

Land Uses	kWh/yr
Total	5,915,196

Water Detail (Unmitigated)

Land Uses	Indoor Use (Mgal)	Outdoor Use (Mgal)	Electricity Use (kWh/yr)
	21.54	0.88	247,853
Total	21.54	0.88	247,853

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).

**Sportsmen's Lodge Project
Los Angeles-South Coast County, Annual**

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>	
Project	5,751	5,904	5,477	19,065,514
Total	5,751	5,904	5,477	19,065,514

Mitigated Gasoline and Diesel Usage

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	26.4	10.8
<i>% Fleet Mix</i>	93.4%	6.6%
Total (Gallons):	675,412	116,945

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)

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
	1,265,000	1,204,762
Total	1,265,000	1,204,762

Energy by Land Use - Electricity (Mitigated)

<i>Land Uses</i>	<i>kWH/yr</i>
Total	5,915,196

Note: Reduction in natural gas usage reflects implementation of GHG-PDF-1 (Prohibit fireplaces within residential units).

Water Detail (Unmitigated)

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Total	21.54	0.88	247,853

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). 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

Sportmen's Lodge

All Electric Calculation

CAPCOA Consumption Rat^a

Building Type	Natural Gas (Therm/yr/KSF)							Electricity (kWh/yr/KSF)						
	Water	Primary	Cooking	Dryer	Cooling	Misc	Refrig.	Water	Primary	Cooking	Dryer	Cooling	Misc	Refrig.
	Heater	Heat						Heater	Heat					
Apartments Mid Rise								1052	350	262	365	397	560	0
Strip Mall			0					24	28	27		1249	2867	162
High Turnover (Sit Down Restaurant)			702					35	268	1279		3254	8965	6236

^a California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.

Project Energy Demand

Project Uses	Amount (DU/KSF)	Natural Gas (Therm/yr/KSF)								Electricity (kWh/yr/KSF)							
		Water	Primary	Cooking	Dryer	Cooling	Misc	Refrig.	Total	Water	Primary	Cooking	Dryer	Cooling	Misc	Refrig.	Total
		Heater	Heat							Heater	Heat						
Apartments Mid Rise	520	0	0	0	0	0	0	0	0	547,040	182,000	136,240	189,800	206,440	291,200	0	1,552,720
Strip Mall	27.93	0	0	0	0	0	0	0	0	670	782	754	0	34,885	80,075	4,525	121,691
High Turnover (Sit Down Restaurant)	18.02	0	0	12,650	0	0	0	0	12,650	631	4,829	23,048	0	58,637	161,549	112,373	361,067
Total		0	0	12,650	0	0	0	0	12,650	548,341	187,611	160,042	189,800	299,962	532,825	116,897	2,035,478

Natural Gas Usage

Title 24 (All - Electric)	0	
Non Title 24 (All-Electric)	12,650	Restaurant Cooking

Electricity Increase

Title 24 (All - Electric)	1,035,914
Non Title 24 (All-Electric)	999,564

8th & Alameda Project

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)

Annual Demand	Baseline	
	(Existing)	Project
Building (MWh)	1,584	4,331
Water (MWh)	59	189
Total (MWh)	1,643	6,166

Average Daily Demand		
Building (kWh)	4,340	11,866
Water (kWh)	162	517
Total (kWh)	4,502	16,893

Average Load		
Building (kW)	181	494
Water (kW)	7	22
Total (kW)	188	704

Peak Load Calculation

Peak Load (kW) ²	354	972
Systemwide Peak Load (MW)		5,854
Percent of Peak		0.017%

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

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

Sportsmen's Lodge Project

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2023** (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	2023	HHDT	Aggregatec	Aggregatec	DSL	0.00	1026.93
Los Angeles	2023	HHDT	Aggregatec	Aggregatec	GAS	1.43	0.00
Los Angeles	2023	LDA	Aggregatec	Aggregatec	DSL	0.00	30.23
Los Angeles	2023	LDA	Aggregatec	Aggregatec	GAS	4943.66	0.00
Los Angeles	2023	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.28
Los Angeles	2023	LDT1	Aggregatec	Aggregatec	GAS	661.89	0.00
Los Angeles	2023	LDT2	Aggregatec	Aggregatec	DSL	0.00	11.48
Los Angeles	2023	LDT2	Aggregatec	Aggregatec	GAS	2111.84	0.00
Los Angeles	2023	LHDT1	Aggregatec	Aggregatec	DSL	0.00	134.84
Los Angeles	2023	LHDT1	Aggregatec	Aggregatec	GAS	366.24	0.00
Los Angeles	2023	LHDT2	Aggregatec	Aggregatec	DSL	0.00	58.29
Los Angeles	2023	LHDT2	Aggregatec	Aggregatec	GAS	69.12	0.00
Los Angeles	2023	MCY	Aggregatec	Aggregatec	GAS	36.85	0.00
Los Angeles	2023	MDV	Aggregatec	Aggregatec	DSL	0.00	30.50
Los Angeles	2023	MDV	Aggregatec	Aggregatec	GAS	1617.67	0.00
Los Angeles	2023	MH	Aggregatec	Aggregatec	DSL	0.00	6.25
Los Angeles	2023	MH	Aggregatec	Aggregatec	GAS	38.12	0.00
Los Angeles	2023	MHDT	Aggregatec	Aggregatec	DSL	0.00	396.57
Los Angeles	2023	MHDT	Aggregatec	Aggregatec	GAS	159.42	0.00
Los Angeles	2023	OBUS	Aggregatec	Aggregatec	DSL	0.00	28.42
Los Angeles	2023	OBUS	Aggregatec	Aggregatec	GAS	32.39	0.00
Los Angeles	2023	SBUS	Aggregatec	Aggregatec	DSL	0.00	16.02
Los Angeles	2023	SBUS	Aggregatec	Aggregatec	GAS	6.51	0.00
Los Angeles	2023	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.81
Los Angeles	2023	UBUS	Aggregatec	Aggregatec	GAS	7.76	0.00
						3,669,304,439	635,325,862
Fuel Usage for Project Construction						98,828	543,115
Percentage of County for Construction						0.0027%	0.085%

EMFAC Emission inventories for County

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2027** (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	2027	HHDT	Aggregatec	Aggregatec	DSL	0.00	1026.53
Los Angeles	2027	HHDT	Aggregatec	Aggregatec	GAS	1.48	0.00
Los Angeles	2027	LDA	Aggregatec	Aggregatec	DSL	0.00	30.77
Los Angeles	2027	LDA	Aggregatec	Aggregatec	GAS	4387.66	0.00
Los Angeles	2027	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.17
Los Angeles	2027	LDT1	Aggregatec	Aggregatec	GAS	635.57	0.00
Los Angeles	2027	LDT2	Aggregatec	Aggregatec	DSL	0.00	12.40
Los Angeles	2027	LDT2	Aggregatec	Aggregatec	GAS	1902.24	0.00
Los Angeles	2027	LHDT1	Aggregatec	Aggregatec	DSL	0.00	146.48
Los Angeles	2027	LHDT1	Aggregatec	Aggregatec	GAS	336.62	0.00
Los Angeles	2027	LHDT2	Aggregatec	Aggregatec	DSL	0.00	63.57
Los Angeles	2027	LHDT2	Aggregatec	Aggregatec	GAS	65.34	0.00
Los Angeles	2027	MCY	Aggregatec	Aggregatec	GAS	39.21	0.00
Los Angeles	2027	MDV	Aggregatec	Aggregatec	DSL	0.00	32.79
Los Angeles	2027	MDV	Aggregatec	Aggregatec	GAS	1426.47	0.00
Los Angeles	2027	MH	Aggregatec	Aggregatec	DSL	0.00	6.59
Los Angeles	2027	MH	Aggregatec	Aggregatec	GAS	35.61	0.00
Los Angeles	2027	MHDT	Aggregatec	Aggregatec	DSL	0.00	403.75
Los Angeles	2027	MHDT	Aggregatec	Aggregatec	GAS	152.98	0.00
Los Angeles	2027	OBUS	Aggregatec	Aggregatec	DSL	0.00	28.94
Los Angeles	2027	OBUS	Aggregatec	Aggregatec	GAS	28.29	0.00
Los Angeles	2027	SBUS	Aggregatec	Aggregatec	DSL	0.00	15.47
Los Angeles	2027	SBUS	Aggregatec	Aggregatec	GAS	7.56	0.00
Los Angeles	2027	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.13
Los Angeles	2027	UBUS	Aggregatec	Aggregatec	GAS	7.10	0.00
						3,294,542,958	645,171,789
Net Fuel Usage for Project Operation						675,412	116,945
Percentage of County for Operation						0.0205%	0.0181%