

# **Appendix O**

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Technical Appendix for Energy

# 222 West 2<sup>nd</sup> Street

## Draft EIR

### Technical Appendix for Energy

Prepared by Eyestone Environmental  
**December 2018**

- Energy Calculations Summary
- Construction Electricity Usage
- Construction Equipment Fuel Usage
- Construction Vehicle Fuel Usage
- Construction Water Usage
- Operational Energy Summary
- Peak Electricity Demand
- County Wide Fuel Consumption

## 222 West 2nd Project - Energy Calculations

### Summary of Energy Use During Construction

#### Project With Project Features

<b>Electricity</b>	
Water Consumption	10,972 kWh
Temporary Power (lighting, tools)	70,157 kWh
<b>Total:</b>	<b>81,128.56 kWh</b>
<b>Gasoline</b>	
On Road	165,124.81 Gallons
Off Road	-
<b>Total:</b>	<b>165,124.81 Gallons</b>
<b>Diesel</b>	
On Road	47,284.49 Gallons
Off Road	122,806.17 Gallons
<b>Total:</b>	<b>170,090.66 Gallons</b>

### Summary of Energy Use During Operations

	Baseline (Buildout)	Project Without Project Features	Project With Project Features	Percent Reduction	Net (Project - Baseline (Buildout))
<b>Electricity</b>					
Electricity (building)	0	7,485,942	6,694,247 kWh/year	-11%	6,694,247
Electricity (water)	0	1,749,805	1,399,844 kWh/year	-20%	1,399,844
<b>Electricity Total</b>	0	9,235,747	8,094,090 kWh/year	-12%	8,094,090
<b>Natural Gas</b>					
	0	6,245,163	5,690,050 cu ft/year	-9%	5,690,050
<b>Mobile</b>					
Gasoline	0	724,864	241,016 Gallons/year	-67%	241,016
Diesel	0	133,766	44,477 Gallons/year	-67%	44,477

## 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	4
Average Daily Output (kWh)	100.8
Building Construction Phase Duration (days)	696
Total Construction (kWh)	70,157
Total Construction (MWh)	70.2

<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	
Demolition	Air Compressors	1	8	78	0.48	0.6	10	90	
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	10	142	
Demolition	Excavators	0	8	158	0.38	0.6	10	0	
Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	10	0	
Demolition	Rubber Tired Loaders	2	8	203	0.36	0.6	10	351	
Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	10	86	
Grading	Bore/Drill Rigs	1	8	221	0.5	0.6	22	583	
Grading	Cranes	1	8	231	0.29	0.6	22	354	
Grading	Excavators	1	8	158	0.38	0.6	22	317	
Grading	Graders	1	8	187	0.41	0.6	22	405	
Grading	Plate Compactors	1	8	8	0.43	0.6	22	18	
Grading	Rubber Tired Dozers	1	8	247	0.4	0.6	22	522	
Grading	Scrapers	0	8	367	0.48	0.6	22	0	
Grading	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	22	0	
Foundation	Cranes	1	8	231	0.29	0.6	97	1,560	
Foundation	Plate Compactors	2	8	8	0.43	0.6	97	160	
Foundation	Pumps	2	8	84	0.74	0.6	97	2,894	
Foundation	Rubber Tired Dozers	0	8	247	0.4	0.6	97	0	
Foundation	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	97	1,671	
Foundation	Welders	1	8	46	0.45	0.6	97	482	
Building Construction	Aerial Lifts	5	8	63	0.31	0.6	696	16,311	
Building Construction	Air Compressors	2	8	78	0.48	0.6	696	12,508	
Building Construction	Concrete/Industrial Saws	3	8	81	0.73	0.6	696	29,631	
Building Construction	Cranes	1	8	231	0.29	0.6	696	11,190	
Building Construction	Forklifts	5	8	89	0.2	0.6	696	14,867	
Building Construction	Generator Sets	0	8	84	0.74	0.6	696	0	
Building Construction	Pumps	1	8	84	0.74	0.6	696	10,383	
Building Construction	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	696	0	
Building Construction	Welders	5	8	46	0.45	0.6	696	17,289	
Architectural Coating	Air Compressors	0	6	78	0.48	0.6	239	0	
Paving	Concrete/Industrial Saws	1	8	81	0.73	0.6	21	298	
Paving	Pavers	0	8	130	0.42	0.6	21	0	
Paving	Paving Equipment	1	8	132	0.36	0.6	21	240	
Paving	Rollers	1	8	80	0.38	0.6	21	153	
Paving	Skid Steer Loaders	1	8	65	0.37	0.6	21	121	
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	21	181	
<b>Total Diesel Usage for Construction (Offr</b>								<b>122,806.2</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	6003986.27	203834624.8	37881273.8	8979.411325	0	22.7
South Coast	LDT1	GAS	Aggregate	709614.235	24148511.38	4288047.373	1228.456545	0	19.7
South Coast	LDT2	GAS	Aggregate	2016981.84	73608549.11	12686637.83	4389.113693	0	16.8
<b>Construction Worker Trip (Composite LDA/LDT1/LDT2):</b>									<b>20.5</b>
South Coast	T7	DSL	Aggregate	89153.534	13501381.84	0	0	2416.821803	5.6

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
Demolition	30	0	10	300	0	150	14.7	6.9	80	4410	0	12000	0.6	129.3	2,148.1
Grading	60	0	22	1320	0	1100	14.7	6.9	80	19404	0	88000	0.6	569.1	15,752.5
Foundation	76	50	97	7372	4850	0	14.7	6.9	20	108368.4	33465	0	0.6	3,178.4	3,594.3
Building Construction	500	50	696	348000	34800	0	14.7	6.9	20	5115600	240120	0	0.6	150,038.2	25,789.7
Architectural Coating	100	0	239	23900	0	0	14.7	6.9	20	351330	0	0	0.6	10,304.3	0.0
Paving	100	0	21	2100	0	0	14.7	6.9	20	30870	0	0	0.6	905.4	0.0
<b>Total: 165,124.8</b>														<b>47,284.5</b>	

Worker Miles per gallon= 20.46 gasoline  
 Vedor/Haul miles per gallon= 5.59 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)
Demolition	30	3	249,150	2,423
Grading	60	3	498,300	4,847
Foundation	76	1	229,520	2,233
Building Construction	500	0	151,000	1,469
Architectural Coating	100	0	0	0
Paving	100			
<b>Total:</b>			<b>1,127,970</b>	<b>10,972</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: 2025

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	2025	Annual	LDA	GAS	Aggregated	Aggregated	6071060.68	205902409.4	38292310	9111.109818	0		
South Coast	2025	Annual	LDA	DSL	Aggregated	Aggregated	20824.0174	645425.8768	128989.92	0	20.65758718		
South Coast	2025	Annual	LDT1	GAS	Aggregated	Aggregated	727841.419	24800256.37	4394580	1266.913117	0		
South Coast	2025	Annual	LDT1	DSL	Aggregated	Aggregated	1053.67134	36078.4157	6234.0443	0	1.171563938		
South Coast	2025	Annual	LDT2	GAS	Aggregated	Aggregated	2074233.28	75543800.58	13032475	4523.847088	0		
South Coast	2025	Annual	LDT2	DSL	Aggregated	Aggregated	991.377933	34127.5637	6127.8756	0	1.101277945		
South Coast	2025	Annual	LHD1	GAS	Aggregated	Aggregated	323270.582	13864618.41	4816249.9	1044.719264	0		
South Coast	2025	Annual	LHD1	DSL	Aggregated	Aggregated	104319.762	4299963.974	1312211.3	0	223.1849953		
South Coast	2025	Annual	LHD2	GAS	Aggregated	Aggregated	33644.5797	1460581.241	501254.08	110.3347382	0		
South Coast	2025	Annual	LHD2	DSL	Aggregated	Aggregated	34490.5892	1419749.324	433848.21	0	73.74246796		
South Coast	2025	Annual	MCY	GAS	Aggregated	Aggregated	239885.113	1731655.111	479722.24	43.71614475	0		
South Coast	2025	Annual	MDV	GAS	Aggregated	Aggregated	1739544.2	58559254.91	10668747	4474.113627	0		
South Coast	2025	Annual	MDV	DSL	Aggregated	Aggregated	1755.7551	60649.8279	10849.884	0	1.945288903		
South Coast	2025	Annual	MH	GAS	Aggregated	Aggregated	75295.7515	860676.901	7532.5871	60.53312102	0		
South Coast	2025	Annual	MH	DSL	Aggregated	Aggregated	13248.1626	145717.0342	1324.8163	0	16.3589763		
South Coast	2025	Annual	OBUS	GAS	Aggregated	Aggregated	7498.39475	280278.822	342438.65	22.41915013	0		
South Coast	2025	Annual	OBUS	DSL	Aggregated	Aggregated	6601.40973	547639.4845	0	0	79.35093715		
South Coast	2025	Annual	SBUS	GAS	Aggregated	Aggregated	1724.08121	61931.96529	6896.3247	5.591068406	0		
South Coast	2025	Annual	SBUS	DSL	Aggregated	Aggregated	4776.29059	168600.404	0	0	23.40373204		
South Coast	2025	Annual	T6	GAS	Aggregated	Aggregated	26695.7609	1270280.635	534128.8	96.19718166	0		
South Coast	2025	Annual	T6	DSL	Aggregated	Aggregated	91293.9897	5560998.022	0	0	618.8923217		
South Coast	2025	Annual	T7	GAS	Aggregated	Aggregated	1827.70554	235586.7155	36568.73	18.6067846	0		
South Coast	2025	Annual	T7	DSL	Aggregated	Aggregated	93287.8054	14465115.58	0	0	2577.463819		
South Coast	2025	Annual	UBUS	GAS	Aggregated	Aggregated	2000.01302	214725.7263	8000.0521	19.45142627	0		
South Coast	2025	Annual	UBUS	DSL	Aggregated	Aggregated	7740.13643	829683.7616	30960.546	0	200.6921606		
							Totals	397,490,281.01		20,797.55	3,837.97		
							Total (GAS)	384,786,056.81	0.93		16.1		0.06
							Total (DSL)	28,213,749.27	0.07		18.5		0.05
											7.4		0.14

**222 West 2nd Project 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>
Condo/Townhouse High Rise	107	Dwelling Unit	1.67	137347	306
Strip Mall	7.2	1000sqft	0.17	7200	0
General Office Building	534.04	1000sqft	12.26	534044	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Unmitigated</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
Condo/Townhouse High Rise	711.55	734.02	584.22	2,380,286
Strip Mall	4,688.91	1,046.73	448.60	11,477,538
General Office Building	308.02	292.18	141.98	536,597
<b>Total</b>	<b>5,708.47</b>	<b>2,072.92</b>	<b>1,174.80</b>	<b>14,394,421</b>

**Unmitigated Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	18.5	7.4
<i>% Fleet Mix</i>	93.2%	6.8%
<b>Total (Gallons):</b>	<b>724,864</b>	<b>133,766</b>

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

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Condo/Townhouse High Rise	986,213	939,250
General Office Building	5,559,400	5,294,667
Strip Mall	11,808	11,246
<b>Total</b>	<b>6,557,421</b>	<b>6,245,163</b>

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

<i>Land Uses</i>	<i>kWH/yr</i>
Condo/Townhouse High Rise	451,512
General Office Building	6,937,230
Strip Mall	97,200
<b>Total</b>	<b>7,485,942</b>

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Condo/Townhouse High Rise	6.97	4.40	120,211
Strip Mall	0.53	0.33	9,105
General Office Building	94.92	58.17	1,620,489
<b>Total</b>	<b>102.42</b>	<b>62.90</b>	<b>1,749,805</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).

**222 West 2nd Project 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>
Condo/Townhouse High Rise	107	Dwelling Unit	1.67	137347	306
Strip Mall	7.2	1000sqft	0.17	7200	0
General Office Building	534.04	1000sqft	12.26	534044	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>	
Condo/Townhouse High Rise	711.55	734.02	584.22	791,445
General Office Building	4,688.91	1,046.73	448.60	3,816,253
Strip Mall	308.02	292.18	141.98	178,419
<b>Total</b>	<b>5,708.47</b>	<b>2,072.92</b>	<b>1,174.80</b>	<b>4,786,116</b>

**Mitigated Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	18.5	7.4
<i>% Fleet Mix</i>	93.2%	6.8%
<b>Total (Gallons):</b>	<b>241,016</b>	<b>44,477</b>

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

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Condo/Townhouse High Rise	939,283	894,555
General Office Building	5,024,290	4,785,038
Strip Mall	10,980	10,457
<b>Total</b>	<b>5,974,553</b>	<b>5,690,050</b>

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

<i>Land Uses</i>	<i>kWH/yr</i>
Condo/Townhouse High Rise	422,972
General Office Building	6,188,230
Strip Mall	83,045
<b>Total</b>	<b>6,694,247</b>

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Condo/Townhouse High Rise	5.57718	3.51605	96,169
Strip Mall	75.9335	46.5399	1,296,391
General Office Building	0.426658	0.2615	7,284
<b>Total</b>	<b>81.94</b>	<b>50.32</b>	<b>1,399,844</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

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

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

### Project Electricity Demand (Operational)

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#### Annual Demand

Building (MWh)	6,694
Water (MWh)	1,400
Total (MWh)	8,094

#### Average Daily Demand

Building (kWh)	18,340
Water (kWh)	3,835
Total (kWh)	22,176

#### Average Load

Building (kW)	764
Water (kW)	160
Total (kW)	924

### Peak Load Calculation

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Peak Load (kW)	<b>1,629</b>
Systemwide Peak Load (MWh)	5,854
Percent of Peak	0.028%

<sup>1</sup>2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Commission. 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: 2017

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2017	LDA	Aggregatec	Aggregatec	GAS	8765.73	0.00
Los Angeles	2017	LDA	Aggregatec	Aggregatec	DSL	0.00	21.10
Los Angeles	2017	LDT1	Aggregatec	Aggregatec	GAS	1188.49	0.00
Los Angeles	2017	LDT1	Aggregatec	Aggregatec	DSL	0.00	1.11
Los Angeles	2017	LDT2	Aggregatec	Aggregatec	GAS	4186.32	0.00
Los Angeles	2017	LDT2	Aggregatec	Aggregatec	DSL	0.00	1.12
Los Angeles	2017	LHD1	Aggregatec	Aggregatec	GAS	941.18	0.00
Los Angeles	2017	LHD1	Aggregatec	Aggregatec	DSL	0.00	200.42
Los Angeles	2017	LHD2	Aggregatec	Aggregatec	GAS	98.91	0.00
Los Angeles	2017	LHD2	Aggregatec	Aggregatec	DSL	0.00	66.05
Los Angeles	2017	MCV	Aggregatec	Aggregatec	GAS	42.47	0.00
Los Angeles	2017	MDV	Aggregatec	Aggregatec	GAS	4109.93	0.00
Los Angeles	2017	MDV	Aggregatec	Aggregatec	DSL	0.00	1.84
Los Angeles	2017	MH	Aggregatec	Aggregatec	GAS	49.33	0.00
Los Angeles	2017	MH	Aggregatec	Aggregatec	DSL	0.00	13.23
Los Angeles	2017	OBUS	Aggregatec	Aggregatec	GAS	22.37	0.00
Los Angeles	2017	OBUS	Aggregatec	Aggregatec	DSL	0.00	70.14
Los Angeles	2017	SBUS	Aggregatec	Aggregatec	GAS	5.20	0.00
Los Angeles	2017	SBUS	Aggregatec	Aggregatec	DSL	0.00	24.31
Los Angeles	2017	T6	Aggregatec	Aggregatec	GAS	88.95	0.00
Los Angeles	2017	T6	Aggregatec	Aggregatec	DSL	0.00	570.29
Los Angeles	2017	T7	Aggregatec	Aggregatec	GAS	18.96	0.00
Los Angeles	2017	T7	Aggregatec	Aggregatec	DSL	0.00	2120.71
Los Angeles	2017	UBUS	Aggregatec	Aggregatec	GAS	18.07	0.00
Los Angeles	2017	UBUS	Aggregatec	Aggregatec	DSL	0.00	195.82
						7,130,604,769	1,199,432,093
Fuel Usage for Project Construction						165,125	170,091
Percentage of County for Construction						0.0023%	0.014%
Net Fuel Usage for Project Operation						241,016	44,477
Percentage of County for Operation						0.0034%	0.003%

**EMFAC Emission inventories for County**

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2022

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	LDA	Aggregatec	Aggregatec	GAS	8979.41	0.00
Los Angeles	2022	LDA	Aggregatec	Aggregatec	DSL	0.00	20.86
Los Angeles	2022	LDT1	Aggregatec	Aggregatec	GAS	1228.46	0.00
Los Angeles	2022	LDT1	Aggregatec	Aggregatec	DSL	0.00	1.13
Los Angeles	2022	LDT2	Aggregatec	Aggregatec	GAS	4389.11	0.00
Los Angeles	2022	LDT2	Aggregatec	Aggregatec	DSL	0.00	1.09
Los Angeles	2022	LHD1	Aggregatec	Aggregatec	GAS	997.19	0.00
Los Angeles	2022	LHD1	Aggregatec	Aggregatec	DSL	0.00	214.66
Los Angeles	2022	LHD2	Aggregatec	Aggregatec	GAS	104.74	0.00
Los Angeles	2022	LHD2	Aggregatec	Aggregatec	DSL	0.00	70.29
Los Angeles	2022	MCV	Aggregatec	Aggregatec	GAS	43.88	0.00
Los Angeles	2022	MDV	Aggregatec	Aggregatec	GAS	4321.68	0.00
Los Angeles	2022	MDV	Aggregatec	Aggregatec	DSL	0.00	1.87
Los Angeles	2022	MH	Aggregatec	Aggregatec	GAS	54.84	0.00
Los Angeles	2022	MH	Aggregatec	Aggregatec	DSL	0.00	14.81
Los Angeles	2022	OBUS	Aggregatec	Aggregatec	GAS	22.02	0.00
Los Angeles	2022	OBUS	Aggregatec	Aggregatec	DSL	0.00	75.36
Los Angeles	2022	SBUS	Aggregatec	Aggregatec	GAS	5.44	0.00
Los Angeles	2022	SBUS	Aggregatec	Aggregatec	DSL	0.00	23.67
Los Angeles	2022	T6	Aggregatec	Aggregatec	GAS	92.55	0.00
Los Angeles	2022	T6	Aggregatec	Aggregatec	DSL	0.00	597.94
Los Angeles	2022	T7	Aggregatec	Aggregatec	GAS	18.17	0.00
Los Angeles	2022	T7	Aggregatec	Aggregatec	DSL	0.00	2416.82
Los Angeles	2022	UBUS	Aggregatec	Aggregatec	GAS	18.92	0.00
Los Angeles	2022	UBUS	Aggregatec	Aggregatec	DSL	0.00	198.22
						7,400,893,111	1,327,403,165
Fuel Usage for Project Construction						165,125	170,091
Percentage of County for Construction						0.0022%	0.013%