

Appendix D

Energy Calculations

2143 Violet Street Project

Draft EIR

Technical Appendix for Energy

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

2143 Violet Street Project

Summary of Energy Use During Construction

Project With Project Features

Electricity	
Water Consumption	17,523 kWh
Temporary Power (lighting, tools)	47,174 kWh
Total:	64,697 kWh
Gasoline	
On Road	147,727 Gallons
Off Road	0
Total:	147,727 Gallons
Diesel	
On Road	230,972 Gallons
Off Road	120,196 Gallons
Total:	351,168 Gallons
Total Mobile	498,894

Summary of Energy Use During Operations

	Baseline (Buildout)	Project Without Project Features	Project With Project Features	Percent Reduction
Electricity				
Electricity (building)	566,477	5,644,008	5,167,159 kWh/year	-8%
Electricity (water)	64,966	1,036,242	828,994 kWh/year	-20%
Electricity Total	631,443	6,680,250	5,996,153 kWh/year	-10%
Natural Gas	265,165	9,294,200	9,294,200 cu ft/year	0%
Mobile				
Gasoline	50,858	882,986	681,701 Gallons/year	-23%
Diesel	9,277	161,063	124,347 Gallons/year	-23%
Mobile Total	60,135	1,044,049	806,049 Gallons/year	-23%

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	22	198
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	22	312
Demolition	Excavators	0	8	158	0.38	0.6	22	0
Demolition	Rubber Tired Dozers	1	8	247	0.4	0.6	22	522
Demolition	Rubber Tired Loaders	1	8	203	0.36	0.6	22	386
Demolition	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	22	379
Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	257	13,631
Grading	Excavators	2	8	158	0.38	0.6	257	7,407
Grading	Forklifts	1	8	89	0.2	0.6	257	1,098
Grading	Graders	0	8	187	0.41	0.6	257	0
Grading	Rubber Tired Dozers	2	8	247	0.4	0.6	257	12,188
Grading	Rubber Tired Loaders	2	8	203	0.36	0.6	257	9,015
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	257	4,427
Grading	Welders	3	8	46	0.45	0.6	257	3,830
Matt Foundation	Pumps	6	8	84	0.74	0.6	4	358
Matt Foundation	Rubber Tired Dozers	0	8	247	0.4	0.6	4	0
Matt Foundation	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	4	0
Foundation	Concrete/Industrial Saws	1	8	81	0.73	0.6	186	2,640
Foundation	Forklifts	2	8	89	0.2	0.6	186	1,589
Foundation	Generator Sets	1	8	84	0.74	0.6	186	2,775
Foundation	Pumps	2	8	84	0.74	0.6	186	5,550
Foundation	Rubber Tired Dozers	0	8	247	0.4	0.6	186	0
Foundation	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	186	0
Building Construction	Aerial Lifts	2	8	63	0.31	0.6	468	4,387
Building Construction	Concrete/Industrial Saws	2	8	81	0.73	0.6	468	13,283
Building Construction	Cranes	0	7	231	0.29	0.6	468	0
Building Construction	Forklifts	2	8	89	0.2	0.6	468	3,999
Building Construction	Generator Sets	2	8	84	0.74	0.6	468	13,964
Building Construction	Pumps	2	8	84	0.74	0.6	468	13,964
Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	468	0
Building Construction	Welders	1	8	46	0.45	0.6	468	2,325
Architectural Coating	Aerial Lifts	1	8	63	0.31	0.6	92	431
Architectural Coating	Air Compressors	1	8	78	0.48	0.6	92	827
Paving	Cement and Mortar Mixers	1	8	9	0.56	0.6	30	36
Paving	Pavers	1	8	130	0.42	0.6	30	393
Paving	Paving Equipment	0	8	132	0.36	0.6	30	0
Paving	Plate Compactors	1	8	8	0.43	0.6	30	25
Paving	Rollers	0	6	80	0.38	0.6	30	0
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	30	258
Total Diesel Usage for Construction (Offroad Equipment):								120,195.7 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.

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	4
Average Daily Output (kWh)	100.8
Building Construction Phase Duration (days)	468
Total Construction (kWh)	47,174
Total Construction (MWh)	47.2

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

EMFAC2014 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	Veh_Class	Fuel	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)	Miles per Gallon
South Coast	LDA	GAS	Aggregate	5983324.08	203406334.5	37758497.7	8962.552247	0	22.7
South Coast	LDT1	GAS	Aggregate	704120.722	23959701.08	4257214.069	1219.237627	0	19.7
South Coast	LDT2	GAS	Aggregate	1998564.65	72973317.94	12574607.68	4353.005354	0	16.8
Construction Worker Trip (Composite LDA/LDT1/LDT2):									20.5
South Coast	T7	DSL	Aggregate	87795.947	13172387.8	0	0	2357.794852	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 Worker 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	16	20	22	352	440	440	14.7	6.9	18	5174.4	3036	7920	0.6	151.8	1,743.7
Grading	18	20	257	4626	5140	38550	14.7	6.9	18	68002.2	35466	693900	0.6	1,995.0	128,013.8
Matt Foundation	150	312	4	600	1248	0	14.7	6.9	20	8820	8611.2	0	0.6	258.8	924.8
Foundation	500	40	186	93000	7440	0	14.7	6.9	20	1367100	51336	0	0.6	40,107.8	5,513.3
Building Construction	500	272	468	234000	127296	0	14.7	6.9	20	3439800	878342.4	0	0.6	100,916.4	94,331.5
Architectural Coating	92	0	92	8464	0	0	14.7	6.9	20	124420.8	0	0	0.6	3,650.2	0.0
Total:													147,726.9	230,971.7	

Worker Miles per gallon= 20.45 gasoline
 Vendor/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	22	0.55	36,542	355
Grading	257	2.20	1,707,508	16,609
Matt Foundation	4	0.10	1,208	12
Foundation	186	0.10	56,172	546
Building Construction	468	0	0	0
Architectural Coating	92	0	0	0
Total:			1,801,430	17,523

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: 2024

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	2024	Annual	LDA	GAS	Aggregated	Aggregated	6047838.24	205180457.1	38152875	9081.79546	0		
South Coast	2024	Annual	LDA	DSL	Aggregated	Aggregated	20753.911	645479.2953	128418.12	0	20.68003278		
South Coast	2024	Annual	LDT1	GAS	Aggregated	Aggregated	721465.367	24572663.48	4356928.7	1255.799325	0		
South Coast	2024	Annual	LDT1	DSL	Aggregated	Aggregated	1044.80136	35325.43116	6118.7556	0	1.151448919		
South Coast	2024	Annual	LDT2	GAS	Aggregated	Aggregated	2054813.99	74892077.02	12916143	4486.21291	0		
South Coast	2024	Annual	LDT2	DSL	Aggregated	Aggregated	981.950256	33912.83607	6062.8044	0	1.096166507		
South Coast	2024	Annual	LHD1	GAS	Aggregated	Aggregated	319112.741	13692283.58	4754304.1	1031.956764	0		
South Coast	2024	Annual	LHD1	DSL	Aggregated	Aggregated	102933.107	4241263.66	1294769	0	220.2081488		
South Coast	2024	Annual	LHD2	GAS	Aggregated	Aggregated	33204.5146	1439248.604	494697.75	108.7400601	0		
South Coast	2024	Annual	LHD2	DSL	Aggregated	Aggregated	34031.7564	1390277.197	428076.67	0	72.24049074		
South Coast	2024	Annual	MCY	GAS	Aggregated	Aggregated	239510.254	1732357.174	478972.61	43.72806069	0		
South Coast	2024	Annual	MDV	GAS	Aggregated	Aggregated	1720734.2	58002703.04	10572673	4432.212602	0		
South Coast	2024	Annual	MDV	DSL	Aggregated	Aggregated	1737.61359	59914.91183	10698.302	0	1.923999287		
South Coast	2024	Annual	MH	GAS	Aggregated	Aggregated	73188.1999	836065.6997	7321.7474	58.83062548	0		
South Coast	2024	Annual	MH	DSL	Aggregated	Aggregated	12871.5913	141311.9208	1287.1592	0	15.85382158		
South Coast	2024	Annual	OBUS	GAS	Aggregated	Aggregated	7457.54544	278860.7329	340573.12	22.32908306	0		
South Coast	2024	Annual	OBUS	DSL	Aggregated	Aggregated	6518.78601	538220.6236	0	0	77.98989155		
South Coast	2024	Annual	SBUS	GAS	Aggregated	Aggregated	1703.23619	61185.99517	6812.9445	5.52995754	0		
South Coast	2024	Annual	SBUS	DSL	Aggregated	Aggregated	4775.56137	169371.1107	0	0	23.48988825		
South Coast	2024	Annual	T6	GAS	Aggregated	Aggregated	26353.9534	1256614.595	527289.88	95.24435145	0		
South Coast	2024	Annual	T6	DSL	Aggregated	Aggregated	90458.8826	5497771.961	0	0	611.9051505		
South Coast	2024	Annual	T7	GAS	Aggregated	Aggregated	1801.53355	233422.7305	36045.084	18.45610548	0		
South Coast	2024	Annual	T7	DSL	Aggregated	Aggregated	91869.3327	14146702.72	0	0	2520.987951		
South Coast	2024	Annual	UBUS	GAS	Aggregated	Aggregated	1979.12366	212477.2607	7916.4946	19.31509867	0		
South Coast	2024	Annual	UBUS	DSL	Aggregated	Aggregated	7676.08277	822794.7858	30704.331	0	201.0309179		
							Totals	394,930,788.72		20,660.15			
							Total (GAS)	382,390,417.03	0.93				
							Total (DSL)	27,722,346.45	0.07				
											MPG	Gallons Per Mile	
												16.2	0.06
												18.5	0.05
												7.356	0.14

2143 Violet - Existing 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>
General Office Building	6.98	1000sqft	0.16	6,983.00	0
Unrefrigerated Warehouse-No Rail	2.11	1000sqft	0.05	2,109.00	0
Apartments Low Rise	10.00	Dwelling Un	0.63	28,699.00	24
Strip Mall	25.74	1000sqft	0.59	25,739.00	0
Parking Lot	43	Spaces	0.39	15,000.00	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>	
Apartments Low Rise	73.2	79.5	67.4	117,327
General Office Building	68.0	15.2	6.5	77,972
Strip Mall	971.7	921.8	447.9	793,233
Unrefrigerated Warehouse-No Rail	10.47	10.47	10.47	21,018
Parking Lot	0	0	0	0
Total	1,287.23	1,174.43	597.44	1,009,550

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>	18.5	7.4	18.6	7.4
<i>% Fleet Mix</i>	93.2%	6.8%	92.9%	6.5%
Total (Gallons):	50,858	9,277	50,308	8,916

Energy by Land Use - Natural Gas

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Apartments Low Rise	142516.0	135,730
General Office Building	86868.5	82,732
Strip Mall	46845.0	44,614
Unrefrigerated Warehouse-No Rail	2193.4	2,089
Parking Lot	0.0	0
Total	278,423	265,165

Energy by Land Use - Electricity

<i>Land Uses</i>	<i>kWH/yr</i>
General Office Building	106,421
Strip Mall	410,794
Unrefrigerated Warehouse-No Rail	13,140
Apartment Low Rise	36,122
Total	566,477

Water Detail

<i>Land Uses</i>	<i>Indoor Use</i>		<i>Electricity Use</i>
	<i>(Mgal)</i>	<i>Use (Mgal)</i>	
Apartments Low Rise	0.652	0.411	11,235
General Office Building	1.241	0.760	21,180
Strip Mall	1.907	1.169	32,551
Unrefrigerated Warehouse-No Rail	0.488	0.000	5,421
Parking Lot	0.000	0.000	0
Total	3.80	2.34	64,966

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).

**2143 Violet - Project Without Project Features and MXD
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>
General Office Building	187.37	1000sqft	4.30	187,374.00	0
User Defined Commercial	1.00	User Defined Ur	0.00	0.00	0
Enclosed Parking with Elevator	828.00	Space	0.00	331,200.00	843
General Office Building	187.37	1000sqft	4.3	187,374.00	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	0.0	0
General Office Building	0.0	0.0	0.0	0
High Turnover (Sit Down Restaurant)	0.0	0.0	0.0	0
User Defined Commercial	6929.0	6929.0	6929.0	17,527,647
Total	6,929	6,929	6,929	17,527,647

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%
Total (Gallons):	882,986	161,063

Energy by Land Use - Natural Gas

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Apartments High Rise	3046090.0	2,901,038
Enclosed Parking with Elevator	0.0	0
General Office Building	1762810.0	1,678,867
High Turnover (Sit Down Restaurant)	4950010.0	4,714,295
Total	9,758,910	9,294,200

Energy by Land Use - Electricity

<i>Land Uses</i>	<i>kWH/yr</i>
Apartments High Rise	1,368,440
Enclosed Parking with Elevator	980,683
General Office Building	2,347,800
High Turnover (Sit Down Restaurant)	947,085
Total	5,644,008

Water Detail (Unmitigated)

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Apartments High Rise	22.608	14.253	389,843
Enclosed Parking with Elevator	0.000	0.000	0
General Office Building	33.302	20.411	568,555
High Turnover (Sit Down Restaurant)	6.635	0.424	77,844
Total	62.55	35.09	1,036,242

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).

2143 Violet - Project With 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>
General Office Building	187.37	1000sqft	4.30	187,374.00	0
User Defined Commercial	1.00	User Defined U	0.00	0.00	0
Enclosed Parking with Elevator	828.00	Space	0.00	331,200.00	843
General Office Building	187.37	1000sqft	4.3	187374	0
Apartments High Rise	347.00	Dwelling Unit	0.00	325,385.00	843

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>	
Apartments High Rise	0.0	0.0	0.0	0
Enclosed Parking with Elevator	0.0	0.0	0.0	0
General Office Building	0.0	0.0	0.0	0
High Turnover (Sit Down Restaurant)	0.0	0.0	0.0	0
User Defined Commercial	5316.0	5316.0	5316.0	13,532,064
Total	5,316.00	5,316.00	5,316.00	13,532,064

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%
Total (Gallons):	681,701	124,347

Energy by Land Use - Natural Gas (Mitigated)

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Apartments High Rise	3046090.0	2,901,038
Enclosed Parking with Elevator	0.0	0
General Office Building	1762810.0	1,678,867
High Turnover (Sit Down Restaurant)	4950010.0	4,714,295
Total	9,758,910	9,294,200

Energy by Land Use - Electricity (Mitigated)

<i>Land Uses</i>	<i>kWH/yr</i>
Apartments High Rise	1,304,120
Enclosed Parking with Elevator	787,759
General Office Building	2,171,200
High Turnover (Sit Down Restaurant)	904,080
Total	5,167,159

Water Detail (Unmitigated)

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
Apartments High Rise	18.087	11.403	311,875
Enclosed Parking with Elevator	0.000	0.000	0
General Office Building	26.642	16.329	454,844
High Turnover (Sit Down Restaurant)	5.308	0.339	62,275
User Defined Commercial	0.000	0.000	0
Total	50.04	28.07	828,994

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 (%)¹ **52%**

Project Electricity Demand (Operational)

Annual Demand

Building (MWh)	5,167
Water (MWh)	829
Total (MWh)	5,996

Average Daily Demand

Building (kWh)	14,157
Water (kWh)	2,271
Total (kWh)	16,428

Average Load

Building (kW)	590
Water (kW)	95
Total (kW)	684

Peak Load Calculation

Peak Load (kW)	1,229
Systemwide Peak Load (MWh)	5,854
Percent of Peak	0.021%

¹2017 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: **2024**

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2024	LDA	Aggregatec	Aggregatec	GAS	9081.80	0.00
Los Angeles	2024	LDA	Aggregatec	Aggregatec	DSL	0.00	20.68
Los Angeles	2024	LDT1	Aggregatec	Aggregatec	GAS	1255.80	0.00
Los Angeles	2024	LDT1	Aggregatec	Aggregatec	DSL	0.00	1.15
Los Angeles	2024	LDT2	Aggregatec	Aggregatec	GAS	4486.21	0.00
Los Angeles	2024	LDT2	Aggregatec	Aggregatec	DSL	0.00	1.10
Los Angeles	2024	LHD1	Aggregatec	Aggregatec	GAS	1031.96	0.00
Los Angeles	2024	LHD1	Aggregatec	Aggregatec	DSL	0.00	220.21
Los Angeles	2024	LHD2	Aggregatec	Aggregatec	GAS	108.74	0.00
Los Angeles	2024	LHD2	Aggregatec	Aggregatec	DSL	0.00	72.24
Los Angeles	2024	MCV	Aggregatec	Aggregatec	GAS	43.73	0.00
Los Angeles	2024	MDV	Aggregatec	Aggregatec	GAS	4432.21	0.00
Los Angeles	2024	MDV	Aggregatec	Aggregatec	DSL	0.00	1.92
Los Angeles	2024	MH	Aggregatec	Aggregatec	GAS	58.83	0.00
Los Angeles	2024	MH	Aggregatec	Aggregatec	DSL	0.00	15.85
Los Angeles	2024	OBUS	Aggregatec	Aggregatec	GAS	22.33	0.00
Los Angeles	2024	OBUS	Aggregatec	Aggregatec	DSL	0.00	77.99
Los Angeles	2024	SBUS	Aggregatec	Aggregatec	GAS	5.53	0.00
Los Angeles	2024	SBUS	Aggregatec	Aggregatec	DSL	0.00	23.49
Los Angeles	2024	T6	Aggregatec	Aggregatec	GAS	95.24	0.00
Los Angeles	2024	T6	Aggregatec	Aggregatec	DSL	0.00	611.91
Los Angeles	2024	T7	Aggregatec	Aggregatec	GAS	18.46	0.00
Los Angeles	2024	T7	Aggregatec	Aggregatec	DSL	0.00	2520.99
Los Angeles	2024	UBUS	Aggregatec	Aggregatec	GAS	19.32	0.00
Los Angeles	2024	UBUS	Aggregatec	Aggregatec	DSL	0.00	201.03
						7,540,954,897	1,375,523,669
Fuel Usage for Project Construction						147,727	351,168
Percentage of County for Construction						0.0020%	0.026%
Net Fuel Usage for Project Operation						681,701	124,347
Percentage of County for Operation						0.0090%	0.0090%