# Appendix E

Energy Calculations

# 1360 North Vine Street (Residential Option)

## Draft EIR
## Appendix E-1
## Energy Analysis Spreadsheets

- Appendix E-1: Energy Analysis (Residential Option )
    - Energy Consumption Summary (Residential Option with Bungalows)
    - Energy Consumption Summary (Residential Option with Restaurant)
    - Construction Energy Usage
        - Electricity Usage
        - Off-Road Equipment
        - On-Road Fuel Usage Rates
        - On-Road Vehicles
        - Construction Water Usage
    - Operational Energy Usage (Residential Option with Bungalows)
        - On-Road Fuel Usage Rates
        - Existing Operations
        - Future Operations without Project Design Features
        - Future Operations
        - Peak Electricity Demand Calculations
        - Total County Fuel Consumption
    - Operational Energy Usage (Residential Option with Restaurant)
        - Future Operations without Project Design Features
        - Future Operations
        - Peak Electricity Demand Calculations
        - Total County Fuel Consumption

**Energy Modeling Input Notes:**

- Project construction is anticipated to be completed as late as 2027 for both Project Options. For purposes of conservatively analyzing construction impacts, it was assumed that construction of the Project could be completed as early as 2025. Based on SCAQMD and CalEEMod factors, the construction equipment and truck fleet mix will consume less energy in future years due to more stringent energy efficiency standards. In addition, Project operational energy usage would also be lower in future years due to increasing energy efficiency standards. As construction and operational activities for the Project are evaluated based on an earlier start date, the energy usage presented are more conservative.

## 1360 Vine Project (Residential Option with Bungalows)

**Summary of Energy Use During Construction**

| | | |
|---|---|---|
| **Electricty** | | |
| Water Consumption | 3,261 | kWh |
| Temporary Power (lighting, tools) | 32,004 | kWh |
| **Total:** | **35,265** | kWh |
| | | |
| **Gasoline** | | |
| On Road | 114,417 | Gallons |
| Off Road | 0 | Gallons |
| **Total:** | **114,417** | Gallons |
| | | |
| **Diesel** | | |
| On Road | 65,037 | Gallons |
| Off Road | 100,359 | Gallons |
| **Total:** | **165,396** | Gallons |
| | | |
| **Total Mobile** | **279,814** | |

**Summary of Energy Use During Operations**

| | Baseline (Buildout) | Buildout Without Project Features | Buildout With Project Features | Project (w/o Project Features - Baseline) | Project (Buildout - Baseline (Buildout) | | Percent Reduction |
|---|---|---|---|---|---|---|---|
| **Electricity** | | | | | | | |
| Electricity (building) | 471,814 | 4,553,662 | 4,233,361 | 4,081,849 | 3,761,547 | kWh/year | **-8%** |
| Electricity (water) | 75,660 | 579,141 | 463,314 | 503,481 | 387,654 | kWh/year | **-23%** |
| Electric Vehicle Charging | 0 | 662,836 | 662,836 | 662,836 | 662,836 | kWh/year | |
| **Electricity Total** | **547,474** | **5,795,640** | **5,359,511** | **5,248,166** | **4,812,037** | **kWh/year** | **-8%** |
| | | | | | | | |
| **Natural Gas** | **269,775** | **4,886,421** | **4,886,421** | **4,616,646** | **4,616,646** | **cu ft/year** | **0%** |
| | | | | | | | |
| **Mobile** | | | | | | | |
| Gasoline | 29,092 | 619,676 | 369,628 | 590,583 | 340,536 | Gallons/year | **-42%** |
| Diesel | 5,726 | 121,955 | 72,744 | 116,229 | 67,019 | Gallons/year | **-42%** |
| **Mobile Total** | **34,818** | **741,631** | **442,372** | **706,813** | **407,554** | **Gallons/year** | **-42%** |

| | |
|---|---|
| Construction Electricity Usage (kWh) | 35,265 |
| Operational Electricity Usage (kWh/year) | 4,812,037 |
| Construction vs. Operational Electricity Usage | 0.73% |

## 1360 Vine Project (Residential Option with Restaurant)

**Summary of Energy Use During Construction**

| | | |
|---|---|---|
| **Electricty** | | |
| Water Consumption | 3,261 | kWh |
| Temporary Power (lighting, tools) | 32,004 | kWh |
| **Total:** | **35,265** | kWh |
| | | |
| **Gasoline** | | |
| On Road | 114,417 | Gallons |
| Off Road | 0 | Gallons |
| **Total:** | **114,417** | Gallons |
| | | |
| **Diesel** | | |
| On Road | 65,037 | Gallons |
| Off Road | 100,359 | Gallons |
| **Total:** | **165,396** | Gallons |
| | | |
| **Total Mobile** | **279,814** | |

**Summary of Energy Use During Operations**

| | Baseline (Buildout) | Buildout Without Project Features | Buildout With Project Features | Project (w/o Project Features - Baseline) | Project (Buildout - Baseline (Buildout) | | Percent Reduction |
|---|---|---|---|---|---|---|---|
| **Electricity** | | | | | | | |
| Electricity (building) | 471,814 | 4,895,065 | 4,559,672 | 4,423,251 | 4,087,858 | kWh/year | **-8%** |
| Electricity (water) | 75,660 | 597,673 | 478,139 | 522,013 | 402,479 | kWh/year | **-23%** |
| Electric Vehicle Charging | 0 | 651,273 | 651,273 | 651,273 | 651,273 | kWh/year | |
| **Electricity Total** | **547,474** | **6,144,011** | **5,689,084** | **5,596,538** | **5,141,611** | **kWh/year** | **-8%** |
| | | | | | | | |
| **Natural Gas** | **269,775** | **6,637,348** | **6,637,348** | **6,367,572** | **6,367,572** | **cu ft/year** | **0%** |
| | | | | | | | |
| **Mobile** | | | | | | | |
| Gasoline | 29,092 | 676,220 | 406,168 | 647,128 | 377,077 | Gallons/year | **-42%** |
| Diesel | 5,726 | 133,083 | 79,936 | 127,357 | 74,210 | Gallons/year | **-42%** |
| **Mobile Total** | **34,818** | **809,303** | **486,104** | **774,485** | **451,287** | **Gallons/year** | **-42%** |

| | |
|---|---|
| Construction Electricity Usage (kWh) | 35,265 |
| Operational Electricity Usage (kWh/year) | 5,141,611 |
| Construction vs. Operational Electricity Usage | 0.69% |

**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 |
| Average Daily Output (kWh) | 50.4 |
| | |
| Building Construction Phase Duration (days) | 635 |
| Total Construction (kWh) | 32,004 |
| Total Construction (MWh) | 32.0 |

[a]https://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 | Hours | HP | Load Factor | Avg. Daily Factor | Number of Days | Diesel Fuel Usage | |
|---|---|---|---|---|---|---|---|---|---|
| Demolition | Air Compressors | 1 | 8 | 78 | 0.48 | 0.6 | 54 | 485 | |
| Demolition | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 0.6 | 54 | 766 | |
| Demolition | Excavators | 1 | 8 | 158 | 0.38 | 0.6 | 54 | 778 | |
| Demolition | Rubber Tired Dozers | 0 | 8 | 247 | 0.4 | 0.6 | 54 | 0 | |
| Demolition | Rubber Tired Loaders | 1 | 8 | 203 | 0.36 | 0.6 | 54 | 947 | |
| Demolition | Tractors/Loaders/Backhoes | 1 | 8 | 97 | 0.37 | 0.6 | 54 | 465 | |
| Grading | Bore/Drill Rigs | 1 | 8 | 221 | 0.5 | 0.6 | 168 | 4,455 | |
| Grading | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 168 | 2,701 | |
| Grading | Excavators | 2 | 8 | 158 | 0.38 | 0.6 | 168 | 4,842 | |
| Grading | Graders | 0 | 8 | 187 | 0.41 | 0.6 | 168 | 0 | |
| Grading | Pumps | 1 | 8 | 84 | 0.74 | 0.6 | 168 | 2,506 | |
| Grading | Rubber Tired Dozers | 0 | 8 | 247 | 0.4 | 0.6 | 168 | 0 | |
| Grading | Scrapers | 0 | 8 | 367 | 0.48 | 0.6 | 168 | 0 | |
| Grading | Tractors/Loaders/Backhoes | 0 | 8 | 97 | 0.37 | 0.6 | 168 | 0 | |
| Mat Foundation | Cement and Mortar Mixers | 2 | 8 | 9 | 0.56 | 0.6 | 4 | 10 | |
| Mat Foundation | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 4 | 64 | |
| Mat Foundation | Generator Sets | 0 | 8 | 84 | 0.74 | 0.6 | 4 | 0 | |
| Mat Foundation | Rubber Tired Dozers | 0 | 8 | 247 | 0.4 | 0.6 | 4 | 0 | |
| Mat Foundation | Tractors/Loaders/Backhoes | 1 | 8 | 97 | 0.37 | 0.6 | 4 | 34 | |
| Mat Foundation | Welders | 1 | 8 | 46 | 0.45 | 0.6 | 4 | 20 | |
| Foundation | Cement and Mortar Mixers | 2 | 8 | 9 | 0.56 | 0.6 | 131 | 317 | |
| Foundation | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 0.6 | 131 | 1,859 | |
| Foundation | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 131 | 2,106 | |
| Foundation | Forklifts | 2 | 8 | 89 | 0.2 | 0.6 | 131 | 1,119 | |
| Foundation | Pumps | 1 | 8 | 84 | 0.74 | 0.6 | 131 | 1,954 | |
| Foundation | Rough Terrain Forklifts | 2 | 8 | 100 | 0.4 | 0.6 | 131 | 2,515 | |
| Foundation | Tractors/Loaders/Backhoes | 0 | 8 | 97 | 0.37 | 0.6 | 131 | 0 | |
| Building Construction | Aerial Lifts | 3 | 8 | 63 | 0.31 | 0.6 | 635 | 8,929 | |
| Building Construction | Air Compressors | 3 | 8 | 78 | 0.48 | 0.6 | 635 | 17,118 | |
| Building Construction | Cement and Mortar Mixers | 1 | 8 | 9 | 0.56 | 0.6 | 635 | 768 | |
| Building Construction | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 0.6 | 635 | 9,011 | |
| Building Construction | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 635 | 10,209 | |
| Building Construction | Forklifts | 2 | 8 | 89 | 0.2 | 0.6 | 635 | 5,425 | |
| Building Construction | Generator Sets | 0 | 8 | 84 | 0.74 | 0.6 | 635 | 0 | |
| Building Construction | Plate Compactors | 2 | 8 | 8 | 0.43 | 0.6 | 635 | 1,049 | |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 7 | 97 | 0.37 | 0.6 | 635 | 0 | |
| Building Construction | Welders | 2 | 8 | 46 | 0.45 | 0.6 | 635 | 6,309 | |
| Architectural Coating | Air Compressors | 0 | 6 | 78 | 0.48 | 0.6 | 87 | 0 | |
| Paving | Cement and Mortar Mixers | 1 | 8 | 9 | 0.56 | 0.6 | 27 | 33 | |
| Paving | Pavers | 0 | 8 | 130 | 0.42 | 0.6 | 27 | 0 | |
| Paving | Paving Equipment | 1 | 8 | 132 | 0.36 | 0.6 | 27 | 308 | |
| Paving | Rollers | 1 | 8 | 80 | 0.38 | 0.6 | 27 | 197 | |
| Paving | Skid Steer Loaders | 2 | 8 | 65 | 0.37 | 0.6 | 27 | 312 | |
| Paving | Tractors/Loaders/Backhoes | 2 | 8 | 97 | 0.37 | 0.6 | 27 | 465 | |
| | | | | | | **Total Diesel Usage for Construction (Offr** | | **100,359.4** | **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.

EMFAC2017 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 | 6,276,234 | 246,181,276 | 29,647,186 | 8,196 | 0 | 30.0 |
| South Coast | LDT1 | GAS | Aggregate | 695,146 | 26,066,042 | 3,200,417 | 1,010 | 0 | 25.8 |
| South Coast | LDT2 | GAS | Aggregate | 2,144,804 | 81,991,236 | 10,052,342 | 3,442 | 0 | 23.8 |
| | | | | | | **Construction Worker Trip (Composite LDA/LDT1/LDT2):** | | | **27.4** |
| South Coast | HHDT | DSL | Aggregate | 96,727 | 11,545,820 | 974,406 | 0 | 1774.2 | **6.5** |

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 construciton 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 | Days | Total Worker Trips | Total Vendor Trips | Total Haul Trips | Trip Length (miles) | | | Total Length (miles) | | | Avg. Daily Factor | Gallons of Fuel | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Worker | Vendor | Haul | Worker | Vendor | Haul | (worker and vendor) | Gasoline | Diesel |
| Demolition | 25 | 20 | 54 | 1350 | 1080 | 0 | 14.7 | 15.8 | 20 | 19845 | 17064 | 0 | 0.6 | 434.1 | 1,573.3 |
| Grading | 75 | 170 | 168 | 12600 | 28560 | 0 | 14.7 | 15.8 | 20 | 185220 | 451248 | 0 | 0.6 | 4,051.6 | 41,604.8 |
| Mat Foundation | 25 | 175 | 4 | 100 | 700 | 0 | 14.7 | 13.8 | 20 | 1470 | 9660 | 0 | 0.6 | 32.2 | 890.6 |
| Foundation | 175 | 100 | 131 | 22925 | 13100 | 0 | 14.7 | 6.9 | 20 | 336997.5 | 90390 | 0 | 0.6 | 7,371.6 | 8,333.9 |
| Building Construction | 500 | 30 | 635 | 317500 | 19050 | 0 | 14.7 | 6.9 | 20 | 4667250 | 131445 | 0 | 0.6 | 102,093.6 | 12,119.2 |
| Architectural Coating | 0 | 0 | 87 | 0 | 0 | 0 | 14.7 | 6.9 | 20 | 0 | 0 | 0 | 0.6 | 0.0 | 0.0 |
| Paving | 50 | 30 | 27 | 1350 | 810 | 0 | 14.7 | 6.9 | 20 | 19845 | 5589 | 0 | 0.6 | 434.1 | 515.3 |
| | | | | | | | | | | | | | **Total:** | **114,417.2** | **65,037.1** |

| | | |
|---|---|---|
| Worker Miles per gallon= | 27.43 | gasoline |
| Vedor/Haul miles per gallon= | 6.51 | 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 Distrubed | Gallons Per Year | Electricity (kWhr) |
|---|---|---|---|---|
| Demolition | 54 | 0.5 | 81,540 | 793 |
| Grading | 168 | 0.5 | 253,680 | 2,468 |
| Mat Foundation | 4 | 0.0 | 0 | 0 |
| Foundation | 131 | 0.0 | 0 | 0 |
| Building Construction | 635 | 0.0 | 0 | 0 |
| Architectural Coating | 87 | 0.0 | 0 | 0 |
| | | **Total:** | **335,220** | **3,261** |

| | | |
|---|---|---|
| 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 | HHDT | DSL | Aggregated | Aggregated | 104,110 | 12,515,660 | 1,062,535 | 0.00 | 1,707.97 |
| South Coast | 2025 | Annual | HHDT | GAS | Aggregated | Aggregated | 73 | 8,703 | 1,459 | 1.95 | 0.00 |
| South Coast | 2025 | Annual | LDA | DSL | Aggregated | Aggregated | 66,922 | 2,593,390 | 318,756 | 0.00 | 49.38 |
| South Coast | 2025 | Annual | LDA | GAS | Aggregated | Aggregated | 6,623,933 | 247,134,863 | 31,282,323 | 7,386.88 | 0.00 |
| South Coast | 2025 | Annual | LDT1 | DSL | Aggregated | Aggregated | 307 | 7,182 | 1,077 | 0.00 | 0.30 |
| South Coast | 2025 | Annual | LDT1 | GAS | Aggregated | Aggregated | 778,182 | 27,926,963 | 3,602,143 | 977.96 | 0.00 |
| South Coast | 2025 | Annual | LDT2 | DSL | Aggregated | Aggregated | 17,588 | 702,823 | 85,874 | 0.00 | 18.22 |
| South Coast | 2025 | Annual | LDT2 | GAS | Aggregated | Aggregated | 2,295,149 | 83,832,765 | 10,772,144 | 3,069.91 | 0.00 |
| South Coast | 2025 | Annual | LHDT1 | DSL | Aggregated | Aggregated | 133,461 | 5,159,848 | 1,678,776 | 0.00 | 228.71 |
| South Coast | 2025 | Annual | LHDT1 | GAS | Aggregated | Aggregated | 168,882 | 5,923,526 | 2,516,094 | 543.18 | 0.00 |
| South Coast | 2025 | Annual | LHDT2 | DSL | Aggregated | Aggregated | 53,523 | 2,005,570 | 673,257 | 0.00 | 98.54 |
| South Coast | 2025 | Annual | LHDT2 | GAS | Aggregated | Aggregated | 29,352 | 993,571 | 437,303 | 104.80 | 0.00 |
| South Coast | 2025 | Annual | MCY | GAS | Aggregated | Aggregated | 314,501 | 2,073,558 | 629,002 | 57.47 | 0.00 |
| South Coast | 2025 | Annual | MDV | DSL | Aggregated | Aggregated | 40,102 | 1,517,288 | 194,655 | 0.00 | 51.21 |
| South Coast | 2025 | Annual | MDV | GAS | Aggregated | Aggregated | 1,560,708 | 53,567,630 | 7,229,536 | 2,429.85 | 0.00 |
| South Coast | 2025 | Annual | MH | DSL | Aggregated | Aggregated | 13,231 | 123,031 | 1,323 | 0.00 | 11.24 |
| South Coast | 2025 | Annual | MH | GAS | Aggregated | Aggregated | 33,043 | 315,800 | 3,306 | 58.66 | 0.00 |
| South Coast | 2025 | Annual | MHDT | DSL | Aggregated | Aggregated | 129,231 | 8,213,878 | 1,308,567 | 0.00 | 712.54 |
| South Coast | 2025 | Annual | MHDT | GAS | Aggregated | Aggregated | 25,223 | 1,297,263 | 504,661 | 245.23 | 0.00 |
| South Coast | 2025 | Annual | OBUS | DSL | Aggregated | Aggregated | 4,537 | 338,774 | 44,085 | 0.00 | 37.70 |
| South Coast | 2025 | Annual | OBUS | GAS | Aggregated | Aggregated | 5,822 | 228,042 | 116,485 | 43.27 | 0.00 |
| South Coast | 2025 | Annual | SBUS | DSL | Aggregated | Aggregated | 6,467 | 204,500 | 74,625 | 0.00 | 25.94 |
| South Coast | 2025 | Annual | SBUS | GAS | Aggregated | Aggregated | 3,013 | 116,477 | 12,051 | 12.42 | 0.00 |
| South Coast | 2025 | Annual | UBUS | DSL | Aggregated | Aggregated | 6 | 776 | 25 | 0.00 | 0.14 |
| South Coast | 2025 | Annual | UBUS | GAS | Aggregated | Aggregated | 969 | 90,836 | 3,877 | 16.68 | 0.00 |

| | | | | | MPG | Gallons Per Mile |
|---|---|---|---|---|---|---|
| Totals | 456,892,715.68 | | 14,948.24 | 2,941.88 | **25.5** | 0.04 |
| Total (GAS) | 423,509,995.51 | 0.93 | | | **28.3** | 0.04 |
| Total (DSL) | 33,382,720.17 | 0.07 | | | **11.3** | 0.09 |

Baseline Year
Calendar Year: 2019
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 | 2019 | Annual | HHDT | DSL | Aggregated | Aggregated | 92,086 | 11,035,510 | 918,238 | 0.00 | 1,756.36 |
| South Coast | 2019 | Annual | HHDT | GAS | Aggregated | Aggregated | 101 | 7,659 | 2,026 | 2.00 | 0.00 |
| South Coast | 2019 | Annual | LDA | DSL | Aggregated | Aggregated | 45,875 | 1,896,329 | 216,399 | 0.00 | 42.12 |
| South Coast | 2019 | Annual | LDA | GAS | Aggregated | Aggregated | 6,081,048 | 244,446,391 | 28,695,373 | 8,546.80 | 0.00 |
| South Coast | 2019 | Annual | LDT1 | DSL | Aggregated | Aggregated | 482 | 11,462 | 1,689 | 0.00 | 0.52 |
| South Coast | 2019 | Annual | LDT1 | GAS | Aggregated | Aggregated | 651,943 | 24,807,246 | 2,983,370 | 1,008.68 | 0.00 |
| South Coast | 2019 | Annual | LDT2 | DSL | Aggregated | Aggregated | 9,665 | 445,810 | 48,035 | 0.00 | 13.63 |
| South Coast | 2019 | Annual | LDT2 | GAS | Aggregated | Aggregated | 2,073,197 | 80,872,282 | 9,694,322 | 3,631.58 | 0.00 |
| South Coast | 2019 | Annual | LHDT1 | DSL | Aggregated | Aggregated | 97,013 | 4,044,995 | 1,220,296 | 0.00 | 195.55 |
| South Coast | 2019 | Annual | LHDT1 | GAS | Aggregated | Aggregated | 175,207 | 6,463,196 | 2,610,330 | 629.75 | 0.00 |
| South Coast | 2019 | Annual | LHDT2 | DSL | Aggregated | Aggregated | 37,900 | 1,552,333 | 476,734 | 0.00 | 83.01 |
| South Coast | 2019 | Annual | LHDT2 | GAS | Aggregated | Aggregated | 28,635 | 1,024,337 | 426,614 | 114.60 | 0.00 |
| South Coast | 2019 | Annual | MCY | GAS | Aggregated | Aggregated | 259,354 | 1,869,286 | 518,708 | 51.29 | 0.00 |
| South Coast | 2019 | Annual | MDV | DSL | Aggregated | Aggregated | 23,710 | 1,023,301 | 117,204 | 0.00 | 40.71 |
| South Coast | 2019 | Annual | MDV | GAS | Aggregated | Aggregated | 1,497,221 | 54,845,361 | 6,911,949 | 2,999.26 | 0.00 |
| South Coast | 2019 | Annual | MH | DSL | Aggregated | Aggregated | 11,071 | 110,800 | 1,107 | 0.00 | 10.76 |
| South Coast | 2019 | Annual | MH | GAS | Aggregated | Aggregated | 35,590 | 335,289 | 3,560 | 67.31 | 0.00 |
| South Coast | 2019 | Annual | MHDT | DSL | Aggregated | Aggregated | 114,051 | 7,128,971 | 1,136,926 | 0.00 | 714.72 |
| South Coast | 2019 | Annual | MHDT | GAS | Aggregated | Aggregated | 24,591 | 1,348,347 | 492,013 | 274.04 | 0.00 |
| South Coast | 2019 | Annual | OBUS | DSL | Aggregated | Aggregated | 4,004 | 293,205 | 39,273 | 0.00 | 37.06 |
| South Coast | 2019 | Annual | OBUS | GAS | Aggregated | Aggregated | 5,873 | 259,979 | 117,514 | 53.24 | 0.00 |
| South Coast | 2019 | Annual | SBUS | DSL | Aggregated | Aggregated | 6,233 | 197,082 | 71,923 | 0.00 | 26.67 |
| South Coast | 2019 | Annual | SBUS | GAS | Aggregated | Aggregated | 2,128 | 88,942 | 8,510 | 9.98 | 0.00 |
| South Coast | 2019 | Annual | UBUS | DSL | Aggregated | Aggregated | 18 | 1,877 | 73 | 0.00 | 0.30 |
| South Coast | 2019 | Annual | UBUS | GAS | Aggregated | Aggregated | 931 | 87,702 | 3,725 | 18.65 | 0.00 |

| | | | | | MPG | Gallons Per Mile |
|---|---|---|---|---|---|---|
| Totals | 444,197,691.29 | | 17,407.18 | 2,921.42 | **21.9** | 0.05 |
| Total (GAS) | 416,456,015.85 | 0.94 | | | **23.9** | 0.04 |
| Total (DSL) | 27,741,675.44 | 0.06 | | | **9.5** | 0.11 |

**1360 Vine - Existing Operations Buildout Year**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| General Office Building | 21.60 | 1000sqft | 0.50 | 21,600.00 | 0 |
| Parking Lot | 0.39 | Acre | 0.39 | 16,988.40 | 0 |
| Strip Mall | 8.00 | 1000sqft | 0.18 | 8,000.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Annual VMT* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| General Office Building | 0 | 0 | 0 | 0 |
| Parking Lot | 0 | 0 | 0 | 0 |
| Strip Mall | 0 | 0 | 0 | 0 |
| User Defined Commercial | 352 | 352 | 352 | 889,208 |
| **Total** | **352.00** | **352.00** | **352.00** | **889,208** |

**Gasoline and Diesel Usage**

| | Buildout Year | | Existing (Baseline) Year | |
|---|---|---|---|---|
| | *Gasoline* | *Diesel* | *Gasoline* | *Diesel* |
| *Miles/Gallon* | 28.3 | 11.3 | 23.9 | 9.5 |
| *% Fleet Mix* | 92.7% | 7.3% | 93.8% | 6.2% |
| **Total (Gallons):** | **29,092** | **5,726** | **34,846** | **5,848** |

**Energy by Land Use - Natural Gas**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| General Office Building | 268,704 | 255,909 |
| Parking Lot | 0 | 0 |
| Strip Mall | 14,560 | 13,867 |
| **Total** | **283,264** | **269,775** |

**Energy by Land Use - Electricity**

| *Land Uses* | *kWH/yr* |
|---|---|
| General Office Building | 329,184 |
| Parking Lot | 14,950 |
| Strip Mall | 127,680 |
| **Total** | **471,814** |

**Water Detail**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| General Office Building | 3.84 | 2.35 | 65,543 |
| Parking Lot | 0.00 | 0.00 | 0 |
| Strip Mall | 0.59 | 0.36 | 10,117 |
| User Defined Commercial | 0.00 | 0.00 | 0 |
| **Total** | 4.43 | 2.72 | **75,660** |

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).

**1360 Vine (Residential Option with Bungalows) - Buildout Operations Without Project Features**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| Apartments High Rise | 417.00 | Dwelling Unit | 6.73 | 415,433.00 | 1193 |
| Single Family Housing | 12.00 | Dwelling Unit | 3.90 | 8,998.00 | 34 |
| Strip Mall | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Supermarket | 55.00 | 1000sqft | 1.26 | 55,000.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Annual VMT* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Apartments High Rise | 0 | 0 | 0 | 0 |
| Enclosed Parking with Elevator | 0 | 0 | 0 | 0 |
| Single Family Housing | 0 | 0 | 0 | 0 |
| Strip Mall | 0 | 0 | 0 | 0 |
| Supermarket | 0 | 0 | 0 | 0 |
| User Defined Commercial | 8,453 | 8,453 | 8,453 | 18,940,376 |
| Total | 8,453 | 8,453 | 8,453 | 18,940,376 |

**Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **619,676** | **121,955** |

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**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Apartments High Rise | 3,660,570 | 3,486,257 |
| Enclosed Parking with Elevator | 0 | 0 |
| Single Family Housing | 302,757 | 288,340 |
| Strip Mall | 7,625 | 7,262 |
| Supermarket | 1159790.0 | 1,104,562 |
| User Defined Commercial | 0.0 | 0 |
| **Total** | 5,130,742 | **4,886,421** |

**Energy by Land Use - Electricity**

| *Land Uses* | *kWH/yr* |
|---|---|
| Apartments High Rise | 1,644,490 |
| Enclosed Parking with Elevator | 719,382 |
| Single Family Housing | 95,455 |
| Strip Mall | 65,495 |
| Supermarket | 2,028,840 |
| User Defined Commercial | 0 |
| **Total** | **4,553,662** |

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| Apartments High Rise | 27.951 | 17.621 | 481,967 |
| Enclosed Parking with Elevator | 0.000 | 0.000 | 0 |
| Single Family Housing | 0.782 | 0.493 | 13,482 |
| Strip Mall | 0.370 | 0.227 | 6,323 |
| Supermarket | 6.780 | 0.210 | 77,369 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 35.88 | 18.55 | **579,141** |

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).

**1360 Vine Project (Residential Option with Bungalows) - Buildout Operations**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| Apartments High Rise | 417.00 | Dwelling Unit | 6.73 | 415,433.00 | 1193 |
| Single Family Housing | 12.00 | Dwelling Unit | 3.90 | 8,998.00 | 34 |
| Strip Mall | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Supermarket | 55.00 | 1000sqft | 1.26 | 55,000.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Mitigated* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Apartments High Rise | 0.0 | 0.0 | 0.0 | 0 |
| Enclosed Parking with Elevator | 0.0 | 0.0 | 0.0 | 0 |
| Single Family Housing | 0.0 | 0.0 | 0.0 | 0 |
| Strip Mall | 0.0 | 0.0 | 0.0 | 0 |
| Supermarket | 0 | 0 | 0 | 0 |
| User Defined Commercial | 4,911 | 4,911 | 4,911 | 11,297,657 |
| Total | 4,911 | 4,911 | 4,911 | 11,297,657 |

**Mitigated Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **369,628** | **72,744** |

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)**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Apartments High Rise | 3,660,570 | 3,486,257 |
| Enclosed Parking with Elevator | 0 | 0 |
| Single Family Housing | 302,757 | 288,340 |
| Strip Mall | 7,625 | 7,262 |
| Supermarket | 1,159,790 | 1,104,562 |
| User Defined Commercial | 0.0 | 0 |
| **Total** | 5,130,742 | **4,886,421** |

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

| *Land Uses* | *kWH/yr* |
|---|---|
| Apartments High Rise | 1,567,200 |
| Enclosed Parking with Elevator | 585,682 |
| Single Family Housing | 90,629 |
| Strip Mall | 57,670 |
| Supermarket | 1,932,180 |
| User Defined Commercial | 0 |
| **Total** | **4,233,361** |

Note: Reduction in electricity usage reflects implementation of CalGreen and 2019 Title 24 (Exceed Title 24, Part 6, CEC baseline requriements by 10 percent for energy efficiency, based on 2019 standards and 25% for lighting).

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| Apartments High Rise | 22.361 | 14.097 | 385,574 |
| Enclosed Parking with Elevator | 0.000 | 0.000 | 0 |
| Single Family Housing | 0.625 | 0.394 | 10,785 |
| Strip Mall | 0.296 | 0.182 | 5,058 |
| Supermarket | 5.424 | 0.168 | 61,896 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 28.71 | 14.84 | **463,314** |

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 ofelectricity 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

# 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 | Baseline (Existing) | Project | Net Increase |
|---|---|---|---|
| Building (MWh) | 472 | 4,233 | 3,762 |
| Water (MWh) | 76 | 463 | 388 |
| Total (MWh) | 547 | 5,360 | 4,812 |
| **Average Daily Demand** | | | |
| Building (kWh) | 1,293 | 11,598 | 10,306 |
| Water (kWh) | 207 | 1,269 | 1,062 |
| Total (kWh) | 1,500 | 14,684 | 13,184 |
| **Average Load** | | | |
| Building (kW) | 54 | 483 | 429 |
| Water (kW) | 9 | 53 | 44 |
| Total (kW) | 62 | 612 | 549 |

## Peak Load Calculation

| | | | |
|---|---|---|---|
| Peak Load (kW) | 112 | 982 | **870** |
| Systemwide Peak Load (MW) | | 5,854 | 5,854 |
| Percent of Peak | | 0.017% | 0.015% |

[1]2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 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: **2021** (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 | 2021 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1774.20 |
| Los Angeles | 2021 | HHDT | Aggregatec | Aggregatec | GAS | 1.89 | 0.00 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 46.12 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | GAS | 8195.76 | 0.00 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.43 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | GAS | 1009.57 | 0.00 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 15.84 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | GAS | 3441.72 | 0.00 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 211.28 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | GAS | 598.07 | 0.00 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 90.14 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | GAS | 111.80 | 0.00 |
| Los Angeles | 2021 | MCY | Aggregatec | Aggregatec | GAS | 53.90 | 0.00 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 46.02 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | GAS | 2808.58 | 0.00 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.04 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | GAS | 64.52 | 0.00 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 727.46 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | GAS | 264.51 | 0.00 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.68 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | GAS | 49.58 | 0.00 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 26.53 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | GAS | 10.85 | 0.00 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.25 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | GAS | 18.46 | 0.00 |
| | | | | | | 6,069,653,628 | 1,090,251,415 |
| | | | | | Fuel Usage for Project Construction | 114,417 | 165,396 |
| | | | | | Percentage of County for Construction | 0.0019% | 0.015% |

**EMFAC Emission inventories for County**
EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: **2025** (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 | 2025 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1707.97 |
| Los Angeles | 2025 | HHDT | Aggregatec | Aggregatec | GAS | 1.95 | 0.00 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 49.38 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | GAS | 7386.88 | 0.00 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.30 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | GAS | 977.96 | 0.00 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 18.22 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | GAS | 3069.91 | 0.00 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 228.71 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | GAS | 543.18 | 0.00 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 98.54 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | GAS | 104.80 | 0.00 |
| Los Angeles | 2025 | MCY | Aggregatec | Aggregatec | GAS | 57.47 | 0.00 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 51.21 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | GAS | 2429.85 | 0.00 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.24 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | GAS | 58.66 | 0.00 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 712.54 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | GAS | 245.23 | 0.00 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.70 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | GAS | 43.27 | 0.00 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 25.94 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | GAS | 12.42 | 0.00 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.14 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | GAS | 16.68 | 0.00 |
| | | | | | | 5,456,109,145 | 1,073,785,458 |
| | | | | | Net Fuel Usage for Project Operation | 340,536 | 67,019 |
| | | | | | Percentage of County for Operation | 0.0062% | 0.0062% |

**1360 Vine (Residential Option with Restaurant) - Buildout Operations Without Project Features**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 8.99 | 1000sqft | 0.21 | 8,990.00 | 0 |
| Apartments High Rise | 429.00 | Dwelling Unit | 6.92 | 415,433.00 | 1227 |
| Strip Mall | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Supermarket | 55.00 | 1000sqft | 1.26 | 55,000.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Annual VMT* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Apartments High Rise | 0 | 0 | 0 | 0 |
| Enclosed Parking with Elevator | 0 | 0 | 0 | 0 |
| High Turnover (Sit Down Restaurant) | 0 | 0 | 0 | 0 |
| Strip Mall | 0 | 0 | 0 | 0 |
| Supermarket | 0 | 0 | 0 | 0 |
| User Defined Commercial | 9,179 | 9,179 | 9,179 | 20,668,648 |
| Total | 9,179 | 9,179 | 9,179 | 20,668,648 |

**Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **676,220** | **133,083** |

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**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Apartments High Rise | 3,765,910 | 3,586,581 |
| Enclosed Parking with Elevator | 0 | 0 |
| High Turnover (Sit Down Restaurant) | 2,035,890 | 1,938,943 |
| Strip Mall | 7,625 | 7,262 |
| Supermarket | 1159790.0 | 1,104,562 |
| User Defined Commercial | 0.0 | 0 |
| **Total** | 6,969,215 | **6,637,348** |

**Energy by Land Use - Electricity**

| *Land Uses* | *kWH/yr* |
|---|---|
| Apartments High Rise | 1,691,820 |
| Enclosed Parking with Elevator | 719,382 |
| High Turnover (Sit Down Restaurant) | 389,528 |
| Strip Mall | 65,495 |
| Supermarket | 2,028,840 |
| User Defined Commercial | 0 |
| **Total** | **4,895,065** |

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| Apartments High Rise | 27.951 | 17.621 | 481,967 |
| Enclosed Parking with Elevator | 0.000 | 0.000 | 0 |
| High Turnover (Sit Down Restaurant) | 2.729 | 0.174 | 32,014 |
| Strip Mall | 0.370 | 0.227 | 6,323 |
| Supermarket | 6.780 | 0.210 | 77,369 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 37.83 | 18.23 | **597,673** |

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).

**1360 Vine Project (Residential Option with Restaurant) - Buildout Operations**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 8.99 | 1000sqft | 0.21 | 8,990.00 | 0 |
| Apartments High Rise | 429.00 | Dwelling Unit | 6.92 | 415,433.00 | 1227 |
| Strip Mall | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Supermarket | 55.00 | 1000sqft | 1.26 | 55,000.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Mitigated* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Apartments High Rise | 0.0 | 0.0 | 0.0 | 0 |
| Enclosed Parking with Elevator | 0.0 | 0.0 | 0.0 | 0 |
| High Turnover (Sit Down Restaurant) | 0.0 | 0.0 | 0.0 | 0 |
| Strip Mall | 0.0 | 0.0 | 0.0 | 0 |
| Supermarket | 0 | 0 | 0 | 0 |
| User Defined Commercial | 5,371 | 5,371 | 5,371 | 12,414,529 |
| Total | 5,371 | 5,371 | 5,371 | 12,414,529 |

**Mitigated Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **406,168** | **79,936** |

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)**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Apartments High Rise | 3,765,910 | 3,586,581 |
| Enclosed Parking with Elevator | 0 | 0 |
| High Turnover (Sit Down Restaurant) | 2,035,890 | 1,938,943 |
| Strip Mall | 7,625 | 7,262 |
| Supermarket | 1,159,790 | 1,104,562 |
| User Defined Commercial | 0.0 | 0 |
| **Total** | 6,969,215 | **6,637,348** |

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

| *Land Uses* | *kWH/yr* |
|---|---|
| Apartments High Rise | 1,612,300 |
| Enclosed Parking with Elevator | 585,682 |
| High Turnover (Sit Down Restaurant) | 371,840 |
| Strip Mall | 57,670 |
| Supermarket | 1,932,180 |
| User Defined Commercial | 0 |
| **Total** | **4,559,672** |

Note: Reduction in electricity usage reflects implementation of CalGreen and 2019 Title 24 (Exceed Title 24, Part 6, CEC baseline requriements by 10 percent for energy efficiency, based on 2019 standards and 25% for lighting).

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| Apartments High Rise | 22.361 | 14.097 | 385,574 |
| Enclosed Parking with Elevator | 0.000 | 0.000 | 0 |
| High Turnover (Sit Down Restaurant) | 2.183 | 0.139 | 25,611 |
| Strip Mall | 0.296 | 0.182 | 5,058 |
| Supermarket | 5.424 | 0.168 | 61,896 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 30.26 | 14.59 | **478,139** |

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 ofelectricity 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

# 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 | Baseline (Existing) | Project | Net Increase |
|---|---|---|---|
| Building (MWh) | 472 | 4,560 | 4,088 |
| Water (MWh) | 76 | 478 | 402 |
| Total (MWh) | 547 | 5,689 | 5,142 |
| **Average Daily Demand** | | | |
| Building (kWh) | 1,293 | 12,492 | 11,200 |
| Water (kWh) | 207 | 1,310 | 1,103 |
| Total (kWh) | 1,500 | 15,587 | 14,087 |
| **Average Load** | | | |
| Building (kW) | 54 | 521 | 467 |
| Water (kW) | 9 | 55 | 46 |
| Total (kW) | 62 | 649 | 587 |

## Peak Load Calculation

| | | | |
|---|---|---|---|
| Peak Load (kW) | 112 | 1,056 | **943** |
| Systemwide Peak Load (MW) | | 5,854 | 5,854 |
| Percent of Peak | | 0.018% | 0.016% |

[1]2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 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: **2021** (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 | 2021 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1774.20 |
| Los Angeles | 2021 | HHDT | Aggregatec | Aggregatec | GAS | 1.89 | 0.00 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 46.12 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | GAS | 8195.76 | 0.00 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.43 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | GAS | 1009.57 | 0.00 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 15.84 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | GAS | 3441.72 | 0.00 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 211.28 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | GAS | 598.07 | 0.00 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 90.14 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | GAS | 111.80 | 0.00 |
| Los Angeles | 2021 | MCY | Aggregatec | Aggregatec | GAS | 53.90 | 0.00 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 46.02 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | GAS | 2808.58 | 0.00 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.04 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | GAS | 64.52 | 0.00 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 727.46 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | GAS | 264.51 | 0.00 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.68 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | GAS | 49.58 | 0.00 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 26.53 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | GAS | 10.85 | 0.00 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.25 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | GAS | 18.46 | 0.00 |
| | | | | | | 6,069,653,628 | 1,090,251,415 |
| | | | | | Fuel Usage for Project Construction | 114,417 | 165,396 |
| | | | | | Percentage of County for Construction | 0.0019% | 0.015% |

**EMFAC Emission inventories for County**
EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: **2025** (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 | 2025 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1707.97 |
| Los Angeles | 2025 | HHDT | Aggregatec | Aggregatec | GAS | 1.95 | 0.00 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 49.38 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | GAS | 7386.88 | 0.00 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.30 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | GAS | 977.96 | 0.00 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 18.22 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | GAS | 3069.91 | 0.00 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 228.71 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | GAS | 543.18 | 0.00 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 98.54 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | GAS | 104.80 | 0.00 |
| Los Angeles | 2025 | MCY | Aggregatec | Aggregatec | GAS | 57.47 | 0.00 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 51.21 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | GAS | 2429.85 | 0.00 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.24 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | GAS | 58.66 | 0.00 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 712.54 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | GAS | 245.23 | 0.00 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.70 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | GAS | 43.27 | 0.00 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 25.94 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | GAS | 12.42 | 0.00 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.14 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | GAS | 16.68 | 0.00 |
| | | | | | | 5,456,109,145 | 1,073,785,458 |
| | | | | | Net Fuel Usage for Project Operation | 377,077 | 74,210 |
| | | | | | Percentage of County for Operation | 0.0069% | 0.0069% |

# 1360 North Vine Street
# (Office Option)
## Draft EIR
## Appendix E-2
## Energy Analysis Spreadsheets

- Appendix E-2: Energy Analysis (Office Option)
    - Energy Consumption Summary (Office Option with Bungalows)
    - Energy Consumption Summary (Office Option with Restaurant)
    - Construction Energy Usage
        - Electricity Usage
        - Off-Road Equipment
        - On-Road Fuel Usage Rates
        - On-Road Vehicles
        - Construction Water Usage
    - Operational Energy Usage (Office Option with Bungalows)
        - On-Road Fuel Usage Rates
        - Existing Operations
        - Future Operations without Project Design Features
        - Future Operations
        - Peak Electricity Demand Calculations
        - Total County Fuel Consumption
    - Operational Energy Usage (Office Option with Restaurant)
        - Future Operations without Project Design Features
        - Future Operations
        - Peak Electricity Demand Calculations
        - Total County Fuel Consumption

## 1360 Vine Project (Office Option with Bungalows)

**Summary of Energy Use During Construction**

| | | |
|---|---|---|
| **Electricty** | | |
| Water Consumption | 4,671 | kWh |
| Temporary Power (lighting, tools) | 21,773 | kWh |
| **Total:** | **26,444** | kWh |
| | | |
| **Gasoline** | | |
| On Road | 89,328 | Gallons |
| Off Road | 0 | Gallons |
| **Total:** | **89,328** | Gallons |
| | | |
| **Diesel** | | |
| On Road | 98,545 | Gallons |
| Off Road | 103,554 | Gallons |
| **Total:** | **202,099** | Gallons |
| | | |
| **Total Mobile** | **291,427** | |

**Summary of Energy Use During Operations**

| | Baseline (Buildout) | Buildout Without Project Features | Buildout With Project Features | Project (w/o Project Features - Baseline) | Project (Buildout - Baseline (Buildout) | | Percent Reduction |
|---|---|---|---|---|---|---|---|
| **Electricity** | | | | | | | |
| Electricity (building) | 471,814 | 8,420,587 | 7,558,180 | 7,948,774 | 7,086,366 | kWh/year | **-11%** |
| Electricity (water) | 75,660 | 1,462,396 | 1,169,917 | 1,386,736 | 1,094,257 | kWh/year | **-21%** |
| Electric Vehicle Charging | 0 | 1,120,305 | 1,120,305 | 1,120,305 | 1,120,305 | kWh/year | |
| **Electricity Total** | **547,474** | **11,003,289** | **9,848,402** | **10,455,816** | **9,300,929** | **kWh/year** | **-11%** |
| **Natural Gas** | **269,775** | **7,011,083** | **7,011,083** | **6,741,308** | **6,741,308** | **cu ft/year** | **0%** |
| **Mobile** | | | | | | | |
| Gasoline | 29,092 | 466,153 | 256,854 | 437,061 | 227,762 | Gallons/year | **-48%** |
| Diesel | 5,726 | 91,741 | 50,550 | 86,015 | 44,824 | Gallons/year | **-48%** |
| **Mobile Total** | **34,818** | **557,894** | **307,404** | **523,076** | **272,587** | **Gallons/year** | **-48%** |

| | |
|---|---|
| Construction Electricity Usage (kWh) | 26,444 |
| Operational Electricity Usage (kWh/year) | 9,300,929 |
| Construction vs. Operational Electricity Usage | 0.28% |

## 1360 Vine Project (Office Option with Restaurant)

**Summary of Energy Use During Construction**

| | | |
|---|---|---|
| **Electricty** | | |
| Water Consumption | 4,671 | kWh |
| Temporary Power (lighting, tools) | 21,773 | kWh |
| **Total:** | **26,444** | kWh |
| | | |
| **Gasoline** | | |
| On Road | 89,328 | Gallons |
| Off Road | 0 | Gallons |
| **Total:** | **89,328** | Gallons |
| | | |
| **Diesel** | | |
| On Road | 98,545 | Gallons |
| Off Road | 103,554 | Gallons |
| **Total:** | **202,099** | Gallons |
| | | |
| **Total Mobile** | **291,427** | |

**Summary of Energy Use During Operations**

| | Baseline (Buildout) | Buildout Without Project Features | Buildout With Project Features | Project (w/o Project Features - Baseline) | Project (Buildout - Baseline (Buildout) | | Percent Reduction |
|---|---|---|---|---|---|---|---|
| **Electricity** | | | | | | | |
| Electricity (building) | 471,814 | 8,700,386 | 7,828,028 | 8,228,572 | 7,356,214 | kWh/year | **-11%** |
| Electricity (water) | 75,660 | 1,448,915 | 1,159,132 | 1,373,255 | 1,083,472 | kWh/year | **-21%** |
| Electric Vehicle Charging | 0 | 1,216,425 | 1,216,425 | 1,216,425 | 1,216,425 | kWh/year | |
| **Electricity Total** | **547,474** | **11,365,725** | **10,203,584** | **10,818,252** | **9,656,111** | **kWh/year** | **-11%** |
| **Natural Gas** | **269,775** | **8,660,819** | **8,661,257** | **8,391,044** | **8,391,482** | **cu ft/year** | **0%** |
| **Mobile** | | | | | | | |
| Gasoline | 29,092 | 520,909 | 302,182 | 491,816 | 273,090 | Gallons/year | **-44%** |
| Diesel | 5,726 | 102,517 | 59,471 | 96,792 | 53,745 | Gallons/year | **-44%** |
| **Mobile Total** | **34,818** | **623,426** | **361,652** | **588,608** | **326,835** | **Gallons/year** | **-44%** |

| | |
|---|---|
| Construction Electricity Usage (kWh) | 26,444 |
| Operational Electricity Usage (kWh/year) | 9,656,111 |
| Construction vs. Operational Electricity Usage | 0.27% |

**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 |
| Average Daily Output (kWh) | 50.4 |
| | |
| Building Construction Phase Duration (days) | 432 |
| Total Construction (kWh) | 21,773 |
| Total Construction (MWh) | 21.8 |

[a]https://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 | Hours | HP | Load Factor | Avg. Daily Factor | Number of Days | Diesel Fuel Usage | |
|---|---|---|---|---|---|---|---|---|---|
| Demolition | Air Compressors | 1 | 8 | 78 | 0.48 | 0.6 | 54 | 485 | |
| Demolition | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 0.6 | 54 | 766 | |
| Demolition | Excavators | 1 | 8 | 158 | 0.38 | 0.6 | 54 | 778 | |
| Demolition | Rubber Tired Dozers | 0 | 8 | 247 | 0.4 | 0.6 | 54 | 0 | |
| Demolition | Rubber Tired Loaders | 1 | 8 | 203 | 0.36 | 0.6 | 54 | 947 | |
| Demolition | Tractors/Loaders/Backhoes | 1 | 8 | 97 | 0.37 | 0.6 | 54 | 465 | |
| Grading | Bore/Drill Rigs | 1 | 8 | 221 | 0.5 | 0.6 | 264 | 7,001 | |
| Grading | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 264 | 4,244 | |
| Grading | Excavators | 2 | 8 | 158 | 0.38 | 0.6 | 264 | 7,608 | |
| Grading | Graders | 0 | 8 | 187 | 0.41 | 0.6 | 264 | 0 | |
| Grading | Pumps | 1 | 8 | 84 | 0.74 | 0.6 | 264 | 3,938 | |
| Grading | Rubber Tired Dozers | 0 | 8 | 247 | 0.4 | 0.6 | 264 | 0 | |
| Grading | Rubber Tired Loaders | 1 | 8 | 203 | 0.36 | 0.6 | 264 | 4,630 | |
| Grading | Scrapers | 0 | 8 | 367 | 0.48 | 0.6 | 264 | 0 | |
| Grading | Welders | 1 | 8 | 46 | 0.45 | 0.6 | 264 | 1,312 | |
| Mat Foundation | Cement and Mortar Mixers | 2 | 8 | 9 | 0.56 | 0.6 | 4 | 10 | |
| Mat Foundation | Forklifts | 0 | 8 | 89 | 0.2 | 0.6 | 4 | 0 | |
| Mat Foundation | Pumps | 4 | 8 | 84 | 0.74 | 0.6 | 4 | 239 | |
| Mat Foundation | Rubber Tired Dozers | 0 | 8 | 247 | 0.4 | 0.6 | 4 | 0 | |
| Mat Foundation | Tractors/Loaders/Backhoes | 1 | 8 | 97 | 0.37 | 0.6 | 4 | 34 | |
| Mat Foundation | Welders | 1 | 8 | 46 | 0.45 | 0.6 | 4 | 20 | |
| Building Foundation and Subgrade | Cement and Mortar Mixers | 2 | 8 | 9 | 0.56 | 0.6 | 224 | 542 | |
| Building Foundation and Subgrade | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 0.6 | 224 | 3,179 | |
| Building Foundation and Subgrade | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 224 | 3,601 | |
| Building Foundation and Subgrade | Generator Sets | 0 | 8 | 84 | 0.74 | 0.6 | 224 | 0 | |
| Building Foundation and Subgrade | Plate Compactors | 4 | 8 | 8 | 0.43 | 0.6 | 224 | 740 | |
| Building Foundation and Subgrade | Rough Terrain Forklifts | 2 | 8 | 100 | 0.4 | 0.6 | 224 | 4,301 | |
| Building Foundation and Subgrade | Welders | 2 | 8 | 46 | 0.45 | 0.6 | 224 | 2,226 | |
| Building Construction | Aerial Lifts | 3 | 8 | 63 | 0.31 | 0.6 | 432 | 6,075 | |
| Building Construction | Air Compressors | 3 | 8 | 78 | 0.48 | 0.6 | 432 | 11,645 | |
| Building Construction | Cement and Mortar Mixers | 1 | 8 | 9 | 0.56 | 0.6 | 432 | 523 | |
| Building Construction | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 0.6 | 432 | 6,131 | |
| Building Construction | Cranes | 1 | 8 | 231 | 0.29 | 0.6 | 432 | 6,946 | |
| Building Construction | Forklifts | 2 | 8 | 89 | 0.2 | 0.6 | 432 | 3,691 | |
| Building Construction | Generator Sets | 0 | 8 | 84 | 0.74 | 0.6 | 432 | 0 | |
| Building Construction | Pumps | 1 | 8 | 84 | 0.74 | 0.6 | 432 | 6,445 | |
| | | | | | | **Total Diesel Usage for Construction (Offr** | | **103,554.4** | **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.

EMFAC2017 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 | 6,276,234 | 246,181,276 | 29,647,186 | 8,196 | 0 | 30.0 |
| South Coast | LDT1 | GAS | Aggregate | 695,146 | 26,066,042 | 3,200,417 | 1,010 | 0 | 25.8 |
| South Coast | LDT2 | GAS | Aggregate | 2,144,804 | 81,991,236 | 10,052,342 | 3,442 | 0 | 23.8 |
| | | | | | | **Construction Worker Trip (Composite LDA/LDT1/LDT2):** | | | **27.4** |
| South Coast | HHDT | DSL | Aggregate | 96,727 | 11,545,820 | 974,406 | 0 | 1774.2 | **6.5** |

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 construciton 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 | Days | Total Worker Trips | Total Vendor Trips | Total Haul Trips | Trip Length (miles) | | | Total Length (miles) | | | Avg. Daily Factor | Gallons of Fuel | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Worker | Vendor | Haul | Worker | Vendor | Haul | (worker and vendor) | Gasoline | Diesel |
| Demolition | 25 | 20 | 54 | 1350 | 1080 | 0 | 14.7 | 15.8 | 20 | 19845 | 17064 | 0 | 0.6 | 434.1 | 1,573.3 |
| Grading | 75 | 190 | 264 | 19800 | 50160 | 0 | 14.7 | 15.8 | 20 | 291060 | 792528 | 0 | 0.6 | 6,366.8 | 73,070.6 |
| Mat Foundation | 25 | 350 | 4 | 100 | 1400 | 0 | 14.7 | 6.9 | 20 | 1470 | 9660 | 0 | 0.6 | 32.2 | 890.6 |
| Building Foundation and Subgrade | 175 | 100 | 224 | 39200 | 22400 | 0 | 14.7 | 6.9 | 20 | 576240 | 154560 | 0 | 0.6 | 12,604.9 | 14,250.3 |
| Building Construction | 500 | 30 | 432 | 216000 | 12960 | 0 | 14.7 | 6.9 | 20 | 3175200 | 89424 | 0 | 0.6 | 69,455.8 | 8,244.8 |
| Architectural Coating | 0 | 0 | 166 | 0 | 0 | 0 | 14.7 | 6.9 | 20 | 0 | 0 | 0 | 0.6 | 0.0 | 0.0 |
| | | | | | | | | | | | | | **Total:** | **89,327.9** | **98,545.1** |

| | | |
|---|---|---|
| Worker Miles per gallon= | 27.43 | gasoline |
| Vedor/Haul miles per gallon= | 6.51 | 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 Distrubed | Gallons Per Year | Electricity (kWhr) |
|---|---|---|---|---|
| Demolition | 54 | 0.5 | 81,540 | 793 |
| Grading | 264 | 0.5 | 398,640 | 3,878 |
| Mat Foundation | 4 | 0.0 | 0 | 0 |
| Building Foundation and Subgrade | 224 | 0.0 | 0 | 0 |
| Building Construction | 432 | 0.0 | 0 | 0 |
| Architectural Coating | 166 | 0.0 | 0 | 0 |
| | | **Total:** | **480,180** | **4,671** |

| | | |
|---|---|---|
| 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 | HHDT | DSL | Aggregated | Aggregated | 104,110 | 12,515,660 | 1,062,535 | 0.00 | 1,707.97 |
| South Coast | 2025 | Annual | HHDT | GAS | Aggregated | Aggregated | 73 | 8,703 | 1,459 | 1.95 | 0.00 |
| South Coast | 2025 | Annual | LDA | DSL | Aggregated | Aggregated | 66,922 | 2,593,390 | 318,756 | 0.00 | 49.38 |
| South Coast | 2025 | Annual | LDA | GAS | Aggregated | Aggregated | 6,623,933 | 247,134,863 | 31,282,323 | 7,386.88 | 0.00 |
| South Coast | 2025 | Annual | LDT1 | DSL | Aggregated | Aggregated | 307 | 7,182 | 1,077 | 0.00 | 0.30 |
| South Coast | 2025 | Annual | LDT1 | GAS | Aggregated | Aggregated | 778,182 | 27,926,963 | 3,602,143 | 977.96 | 0.00 |
| South Coast | 2025 | Annual | LDT2 | DSL | Aggregated | Aggregated | 17,588 | 702,823 | 85,874 | 0.00 | 18.22 |
| South Coast | 2025 | Annual | LDT2 | GAS | Aggregated | Aggregated | 2,295,149 | 83,832,765 | 10,772,144 | 3,069.91 | 0.00 |
| South Coast | 2025 | Annual | LHDT1 | DSL | Aggregated | Aggregated | 133,461 | 5,159,848 | 1,678,776 | 0.00 | 228.71 |
| South Coast | 2025 | Annual | LHDT1 | GAS | Aggregated | Aggregated | 168,882 | 5,923,526 | 2,516,094 | 543.18 | 0.00 |
| South Coast | 2025 | Annual | LHDT2 | DSL | Aggregated | Aggregated | 53,523 | 2,005,570 | 673,257 | 0.00 | 98.54 |
| South Coast | 2025 | Annual | LHDT2 | GAS | Aggregated | Aggregated | 29,352 | 993,571 | 437,303 | 104.80 | 0.00 |
| South Coast | 2025 | Annual | MCY | GAS | Aggregated | Aggregated | 314,501 | 2,073,558 | 629,002 | 57.47 | 0.00 |
| South Coast | 2025 | Annual | MDV | DSL | Aggregated | Aggregated | 40,102 | 1,517,288 | 194,655 | 0.00 | 51.21 |
| South Coast | 2025 | Annual | MDV | GAS | Aggregated | Aggregated | 1,560,708 | 53,567,630 | 7,229,536 | 2,429.85 | 0.00 |
| South Coast | 2025 | Annual | MH | DSL | Aggregated | Aggregated | 13,231 | 123,031 | 1,323 | 0.00 | 11.24 |
| South Coast | 2025 | Annual | MH | GAS | Aggregated | Aggregated | 33,043 | 315,800 | 3,306 | 58.66 | 0.00 |
| South Coast | 2025 | Annual | MHDT | DSL | Aggregated | Aggregated | 129,231 | 8,213,878 | 1,308,567 | 0.00 | 712.54 |
| South Coast | 2025 | Annual | MHDT | GAS | Aggregated | Aggregated | 25,223 | 1,297,263 | 504,661 | 245.23 | 0.00 |
| South Coast | 2025 | Annual | OBUS | DSL | Aggregated | Aggregated | 4,537 | 338,774 | 44,085 | 0.00 | 37.70 |
| South Coast | 2025 | Annual | OBUS | GAS | Aggregated | Aggregated | 5,822 | 228,042 | 116,485 | 43.27 | 0.00 |
| South Coast | 2025 | Annual | SBUS | DSL | Aggregated | Aggregated | 6,467 | 204,500 | 74,625 | 0.00 | 25.94 |
| South Coast | 2025 | Annual | SBUS | GAS | Aggregated | Aggregated | 3,013 | 116,477 | 12,051 | 12.42 | 0.00 |
| South Coast | 2025 | Annual | UBUS | DSL | Aggregated | Aggregated | 6 | 776 | 25 | 0.00 | 0.14 |
| South Coast | 2025 | Annual | UBUS | GAS | Aggregated | Aggregated | 969 | 90,836 | 3,877 | 16.68 | 0.00 |

| | | | | | MPG | Gallons Per Mile |
|---|---|---|---|---|---|---|
| Totals | 456,892,715.68 | | 14,948.24 | 2,941.88 | **25.5** | 0.04 |
| Total (GAS) | 423,509,995.51 | 0.93 | | | **28.3** | 0.04 |
| Total (DSL) | 33,382,720.17 | 0.07 | | | **11.3** | 0.09 |

Baseline Year
Calendar Year: 2019
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 | 2019 | Annual | HHDT | DSL | Aggregated | Aggregated | 92,086 | 11,035,510 | 918,238 | 0.00 | 1,756.36 |
| South Coast | 2019 | Annual | HHDT | GAS | Aggregated | Aggregated | 101 | 7,659 | 2,026 | 2.00 | 0.00 |
| South Coast | 2019 | Annual | LDA | DSL | Aggregated | Aggregated | 45,875 | 1,896,329 | 216,399 | 0.00 | 42.12 |
| South Coast | 2019 | Annual | LDA | GAS | Aggregated | Aggregated | 6,081,048 | 244,446,391 | 28,695,373 | 8,546.80 | 0.00 |
| South Coast | 2019 | Annual | LDT1 | DSL | Aggregated | Aggregated | 482 | 11,462 | 1,689 | 0.00 | 0.52 |
| South Coast | 2019 | Annual | LDT1 | GAS | Aggregated | Aggregated | 651,943 | 24,807,246 | 2,983,370 | 1,008.68 | 0.00 |
| South Coast | 2019 | Annual | LDT2 | DSL | Aggregated | Aggregated | 9,665 | 445,810 | 48,035 | 0.00 | 13.63 |
| South Coast | 2019 | Annual | LDT2 | GAS | Aggregated | Aggregated | 2,073,197 | 80,872,282 | 9,694,322 | 3,631.58 | 0.00 |
| South Coast | 2019 | Annual | LHDT1 | DSL | Aggregated | Aggregated | 97,013 | 4,044,995 | 1,220,296 | 0.00 | 195.55 |
| South Coast | 2019 | Annual | LHDT1 | GAS | Aggregated | Aggregated | 175,207 | 6,463,196 | 2,610,330 | 629.75 | 0.00 |
| South Coast | 2019 | Annual | LHDT2 | DSL | Aggregated | Aggregated | 37,900 | 1,552,333 | 476,734 | 0.00 | 83.01 |
| South Coast | 2019 | Annual | LHDT2 | GAS | Aggregated | Aggregated | 28,635 | 1,024,337 | 426,614 | 114.60 | 0.00 |
| South Coast | 2019 | Annual | MCY | GAS | Aggregated | Aggregated | 259,354 | 1,869,286 | 518,708 | 51.29 | 0.00 |
| South Coast | 2019 | Annual | MDV | DSL | Aggregated | Aggregated | 23,710 | 1,023,301 | 117,204 | 0.00 | 40.71 |
| South Coast | 2019 | Annual | MDV | GAS | Aggregated | Aggregated | 1,497,221 | 54,845,361 | 6,911,949 | 2,999.26 | 0.00 |
| South Coast | 2019 | Annual | MH | DSL | Aggregated | Aggregated | 11,071 | 110,800 | 1,107 | 0.00 | 10.76 |
| South Coast | 2019 | Annual | MH | GAS | Aggregated | Aggregated | 35,590 | 335,289 | 3,560 | 67.31 | 0.00 |
| South Coast | 2019 | Annual | MHDT | DSL | Aggregated | Aggregated | 114,051 | 7,128,971 | 1,136,926 | 0.00 | 714.72 |
| South Coast | 2019 | Annual | MHDT | GAS | Aggregated | Aggregated | 24,591 | 1,348,347 | 492,013 | 274.04 | 0.00 |
| South Coast | 2019 | Annual | OBUS | DSL | Aggregated | Aggregated | 4,004 | 293,205 | 39,273 | 0.00 | 37.06 |
| South Coast | 2019 | Annual | OBUS | GAS | Aggregated | Aggregated | 5,873 | 259,979 | 117,514 | 53.24 | 0.00 |
| South Coast | 2019 | Annual | SBUS | DSL | Aggregated | Aggregated | 6,233 | 197,082 | 71,923 | 0.00 | 26.67 |
| South Coast | 2019 | Annual | SBUS | GAS | Aggregated | Aggregated | 2,128 | 88,942 | 8,510 | 9.98 | 0.00 |
| South Coast | 2019 | Annual | UBUS | DSL | Aggregated | Aggregated | 18 | 1,877 | 73 | 0.00 | 0.30 |
| South Coast | 2019 | Annual | UBUS | GAS | Aggregated | Aggregated | 931 | 87,702 | 3,725 | 18.65 | 0.00 |

| | | | | | MPG | Gallons Per Mile |
|---|---|---|---|---|---|---|
| Totals | 444,197,691.29 | | 17,407.18 | 2,921.42 | **21.9** | 0.05 |
| Total (GAS) | 416,456,015.85 | 0.94 | | | **23.9** | 0.04 |
| Total (DSL) | 27,741,675.44 | 0.06 | | | **9.5** | 0.11 |

**1360 Vine - Existing Operations Buildout Year**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| General Office Building | 21.60 | 1000sqft | 0.50 | 21,600.00 | 0 |
| Parking Lot | 0.39 | Acre | 0.39 | 16,988.40 | 0 |
| Strip Mall | 8.00 | 1000sqft | 0.18 | 8,000.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Annual VMT* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| General Office Building | 0 | 0 | 0 | 0 |
| Parking Lot | 0 | 0 | 0 | 0 |
| Strip Mall | 0 | 0 | 0 | 0 |
| User Defined Commercial | 352 | 352 | 352 | 889,208 |
| **Total** | **352.00** | **352.00** | **352.00** | **889,208** |

**Gasoline and Diesel Usage**

| | Buildout Year | | Existing (Baseline) Year | |
|---|---|---|---|---|
| | *Gasoline* | *Diesel* | *Gasoline* | *Diesel* |
| *Miles/Gallon* | 28.3 | 11.3 | 23.9 | 9.5 |
| *% Fleet Mix* | 92.7% | 7.3% | 93.8% | 6.2% |
| **Total (Gallons):** | **29,092** | **5,726** | **34,846** | **5,848** |

**Energy by Land Use - Natural Gas**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| General Office Building | 268,704 | 255,909 |
| Parking Lot | 0 | 0 |
| Strip Mall | 14,560 | 13,867 |
| **Total** | **283,264** | **269,775** |

**Energy by Land Use - Electricity**

| *Land Uses* | *kWH/yr* |
|---|---|
| General Office Building | 329,184 |
| Parking Lot | 14,950 |
| Strip Mall | 127,680 |
| **Total** | **471,814** |

**Water Detail**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| General Office Building | 3.84 | 2.35 | 65,543 |
| Parking Lot | 0.00 | 0.00 | 0 |
| Strip Mall | 0.59 | 0.36 | 10,117 |
| User Defined Commercial | 0.00 | 0.00 | 0 |
| **Total** | 4.43 | 2.72 | **75,660** |

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).

**1360 Vine (Office Option with Bungalows) - Buildout Operations Without Project Features**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| General Office Building | 463.52 | 1000sqft | 10.64 | 463,521.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Un | 0.00 | 0.00 | 0 |
| Enclosed Parking with Elevator | 1,705.00 | Space | 15.34 | 682,000.00 | 0 |
| Quality Restaurant | 11.91 | 1000sqft | 0.27 | 11,914.00 | 0 |
| Single Family Housing | 12.00 | Dwelling Unit | 3.90 | 8,998.00 | 34 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Annual VMT* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Enclosed Parking with Elevator | 0 | 0 | 0 | 0 |
| General Office Building | 0 | 0 | 0 | 0 |
| Quality Restaurant | 0 | 0 | 0 | 0 |
| Single Family Housing | 0 | 0 | 0 | 0 |
| User Defined Commercial | 5,399 | 5,399 | 5,399 | 14,247,961 |
| Total | 5,399 | 5,399 | 5,399 | 14,247,961 |

**Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **466,153** | **91,741** |

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**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Enclosed Parking with Elevator | 0 | 0 |
| General Office Building | 4,360,810 | 4,153,152 |
| Quality Restaurant | 2,698,070 | 2,569,590 |
| Single Family Housing | 302,757 | 288,340 |
| **Total** | 7,361,637 | **7,011,083** |

**Energy by Land Use - Electricity**

| *Land Uses* | *kWH/yr* |
|---|---|
| Enclosed Parking with Elevator | 2,000,990 |
| General Office Building | 5,807,920 |
| Quality Restaurant | 516,222 |
| Single Family Housing | 95,455 |
| **Total** | **8,420,587** |

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| Enclosed Parking with Elevator | 0.000 | 0.000 | 0 |
| General Office Building | 82.383 | 50.493 | 1,406,503 |
| Quality Restaurant | 3.615 | 0.231 | 42,412 |
| Single Family Housing | 0.782 | 0.493 | 13,482 |
| **Total** | 86.78 | 51.22 | **1,462,396** |

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).

**1360 Vine Project (Office Option with Bungalows) - Buildout Operations**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| General Office Building | 463.52 | 1000sqft | 10.64 | 463,521.00 | 0 |
| User Defined Commercial | 1.00 | User Defined U | 0.00 | 0.00 | 0 |
| Enclosed Parking with Elevator | 1,705.00 | Space | 15.34 | 682,000.00 | 0 |
| Quality Restaurant | 11.91 | 1000sqft | 0.27 | 11,914.00 | 0 |
| Single Family Housing | 12.00 | Dwelling Unit | 3.90 | 8,998.00 | 34 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Mitigated* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Enclosed Parking with Elevator | 0.0 | 0.0 | 0.0 | 0 |
| General Office Building | 0.0 | 0.0 | 0.0 | 0 |
| Quality Restaurant | 0.0 | 0.0 | 0.0 | 0 |
| Single Family Housing | 0.0 | 0.0 | 0.0 | 0 |
| User Defined Commercial | 2,979 | 2,979 | 2,979 | 7,850,737 |
| Total | 2,979 | 2,979 | 2,979 | 7,850,737 |

**Mitigated Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **256,854** | **50,550** |

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)**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Enclosed Parking with Elevator | 0 | 0 |
| General Office Building | 4,360,810 | 4,153,152 |
| Quality Restaurant | 2,698,070 | 2,569,590 |
| Single Family Housing | 302,757 | 288,340 |
| **Total** | 7,361,637 | **7,011,083** |

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

| *Land Uses* | *kWH/yr* |
|---|---|
| Enclosed Parking with Elevator | 1,603,720 |
| General Office Building | 5,371,050 |
| Quality Restaurant | 492,781 |
| Single Family Housing | 90,629 |
| **Total** | **7,558,180** |

Note: Reduction in electricity usage reflects implementation of CalGreen and 2019 Title 24 (Exceed Title 24, Part 6, CEC baseline requriements by 10 percent for energy efficiency, based on 2019 standards and 25% for lighting).

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| General Office Building | 65.907 | 40.394 | 1,125,202 |
| Quality Restaurant | 2.892 | 0.185 | 33,929 |
| Single Family Housing | 0.625 | 0.394 | 10,785 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 69.42 | 40.97 | **1,169,917** |

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 ofelectricity 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

# 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 | Baseline (Existing) | Project | Net Increase |
|---|---|---|---|
| Building (MWh) | 472 | 7,558 | 7,086 |
| Water (MWh) | 76 | 1,170 | 1,094 |
| Total (MWh) | 547 | 9,848 | 9,301 |
| **Average Daily Demand** | | | |
| Building (kWh) | 1,293 | 20,707 | 19,415 |
| Water (kWh) | 207 | 3,205 | 2,998 |
| Total (kWh) | 1,500 | 26,982 | 25,482 |
| **Average Load** | | | |
| Building (kW) | 54 | 863 | 809 |
| Water (kW) | 9 | 134 | 125 |
| Total (kW) | 62 | 1,124 | 1,062 |

## Peak Load Calculation

| | | | |
|---|---|---|---|
| Peak Load (kW) | 112 | 1,793 | **1,681** |
| Systemwide Peak Load (MW) | | 5,854 | 5,854 |
| Percent of Peak | | 0.031% | 0.029% |

[1]2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 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: **2021** (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 | 2021 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1774.20 |
| Los Angeles | 2021 | HHDT | Aggregatec | Aggregatec | GAS | 1.89 | 0.00 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 46.12 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | GAS | 8195.76 | 0.00 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.43 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | GAS | 1009.57 | 0.00 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 15.84 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | GAS | 3441.72 | 0.00 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 211.28 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | GAS | 598.07 | 0.00 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 90.14 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | GAS | 111.80 | 0.00 |
| Los Angeles | 2021 | MCY | Aggregatec | Aggregatec | GAS | 53.90 | 0.00 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 46.02 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | GAS | 2808.58 | 0.00 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.04 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | GAS | 64.52 | 0.00 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 727.46 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | GAS | 264.51 | 0.00 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.68 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | GAS | 49.58 | 0.00 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 26.53 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | GAS | 10.85 | 0.00 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.25 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | GAS | 18.46 | 0.00 |
| | | | | | | 6,069,653,628 | 1,090,251,415 |
| | | | | | Fuel Usage for Project Construction | 89,328 | 202,099 |
| | | | | | Percentage of County for Construction | 0.0015% | 0.019% |

**EMFAC Emission inventories for County**
EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: **2025** (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 | 2025 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1707.97 |
| Los Angeles | 2025 | HHDT | Aggregatec | Aggregatec | GAS | 1.95 | 0.00 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 49.38 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | GAS | 7386.88 | 0.00 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.30 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | GAS | 977.96 | 0.00 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 18.22 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | GAS | 3069.91 | 0.00 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 228.71 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | GAS | 543.18 | 0.00 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 98.54 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | GAS | 104.80 | 0.00 |
| Los Angeles | 2025 | MCY | Aggregatec | Aggregatec | GAS | 57.47 | 0.00 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 51.21 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | GAS | 2429.85 | 0.00 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.24 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | GAS | 58.66 | 0.00 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 712.54 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | GAS | 245.23 | 0.00 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.70 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | GAS | 43.27 | 0.00 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 25.94 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | GAS | 12.42 | 0.00 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.14 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | GAS | 16.68 | 0.00 |
| | | | | | | 5,456,109,145 | 1,073,785,458 |
| | | | | | Net Fuel Usage for Project Operation | 227,762 | 44,824 |
| | | | | | Percentage of County for Operation | 0.0042% | 0.0042% |

**1360 Vine (Office Option with Restaurant) - Buildout Operations Without Project Features**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| General Office Building | 463.52 | 1000sqft | 10.64 | 463,520.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Ur | 0.00 | 0.00 | 0 |
| Enclosed Parking with Elevator | 1,693.00 | Space | 15.24 | 677,200.00 | 0 |
| Quality Restaurant | 20.90 | 1000sqft | 0.48 | 20,900.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Annual VMT* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Enclosed Parking with Elevator | 0 | 0 | 0 | 0 |
| General Office Building | 0 | 0 | 0 | 0 |
| Quality Restaurant | 0 | 0 | 0 | 0 |
| User Defined Commercial | 6,092 | 6,092 | 6,092 | 15,921,564 |
| Total | 6,092 | 6,092 | 6,092 | 15,921,564 |

**Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **520,909** | **102,517** |

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**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Enclosed Parking with Elevator | 0 | 0 |
| General Office Building | 4,360,800 | 4,153,143 |
| Quality Restaurant | 4,733,060 | 4,507,676 |
| User Defined Commercial | 0 | 0 |
| **Total** | 9,093,860 | **8,660,819** |

**Energy by Land Use - Electricity**

| *Land Uses* | *kWH/yr* |
|---|---|
| Enclosed Parking with Elevator | 1,986,900 |
| General Office Building | 5,807,910 |
| Quality Restaurant | 905,576 |
| User Defined Commercial | 0 |
| **Total** | **8,700,386** |

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| Enclosed Parking with Elevator | 0.000 | 0.000 | 0 |
| General Office Building | 82.383 | 50.493 | 1,406,503 |
| Quality Restaurant | 3.615 | 0.231 | 42,412 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 86.00 | 50.72 | **1,448,915** |

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).

**1360 Vine Project (Office Option with Restaurant) - Buildout Operations**
**Los Angeles-South Coast County, Annual**

**Land Use Details**

| *Land Uses* | *Size* | *Metric* | *Lot Acreage* | *Floor Surface Area* | *Population* |
|---|---|---|---|---|---|
| General Office Building | 463.52 | 1000sqft | 10.64 | 463,521.00 | 0 |
| User Defined Commercial | 1.00 | User Defined U | 0.00 | 0.00 | 0 |
| Enclosed Parking with Elevator | 1,693.00 | Space | 15.24 | 677,200.00 | 0 |
| Quality Restaurant | 20.90 | 1000sqft | 0.48 | 20,902.00 | 0 |

**Trip Summary Information**

| *Land Uses* | *Average Daily Trip Rate* | | | *Mitigated* |
|---|---|---|---|---|
| | *Weekday* | *Saturday* | *Sunday* | |
| Enclosed Parking with Elevator | 0.0 | 0.0 | 0.0 | 0 |
| General Office Building | 0.0 | 0.0 | 0.0 | 0 |
| Quality Restaurant | 0.0 | 0.0 | 0.0 | 0 |
| User Defined Commercial | 3534.0 | 3534.0 | 3534.0 | 9,236,180 |
| Total | 3,534 | 3,534 | 3,534 | 9,236,180 |

**Mitigated Gasoline and Diesel Usage**

| | *Gasoline* | *Diesel* |
|---|---|---|
| *Miles/Gallon* | 28.3 | 11.3 |
| *% Fleet Mix* | 92.7% | 7.3% |
| **Total (Gallons):** | **302,182** | **59,471** |

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)**

| *Land Uses* | *kBTU/yr* | cu ft/year |
|---|---|---|
| Enclosed Parking with Elevator | 0 | 0 |
| General Office Building | 4,360,810 | 4,153,152 |
| Quality Restaurant | 4,733,510 | 4,508,105 |
| User Defined Commercial | 0 | 0 |
| **Total** | 9,094,320 | **8,661,257** |

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

| *Land Uses* | *kWH/yr* |
|---|---|
| Enclosed Parking with Elevator | 1,592,440 |
| General Office Building | 5,371,050 |
| Quality Restaurant | 864,538 |
| User Defined Commercial | 0 |
| **Total** | **7,828,028** |

Note: Reduction in electricity usage reflects implementation of CalGreen and 2019 Title 24 (Exceed Title 24, Part 6, CEC baseline requriements by 10 percent for energy efficiency, based on 2019 standards and 25% for lighting).

**Water Detail (Unmitigated)**

| *Land Uses* | *Indoor Use (Mgal)* | *Outdoor Use (Mgal)* | *Electricity Use (kWh/yr)* |
|---|---|---|---|
| General Office Building | 65.907 | 40.394 | 1,125,202 |
| Quality Restaurant | 2.892 | 0.185 | 33,929 |
| User Defined Commercial | 0.000 | 0.000 | 0 |
| **Total** | 68.80 | 40.58 | **1,159,132** |

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 ofelectricity 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

# 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 | Baseline (Existing) | Project | Net Increase |
|---|---|---|---|
| Building (MWh) | 472 | 7,828 | 7,356 |
| Water (MWh) | 76 | 1,159 | 1,083 |
| Total (MWh) | 547 | 10,204 | 9,656 |
| **Average Daily Demand** | | | |
| Building (kWh) | 1,293 | 21,447 | 20,154 |
| Water (kWh) | 207 | 3,176 | 2,968 |
| Total (kWh) | 1,500 | 27,955 | 26,455 |
| **Average Load** | | | |
| Building (kW) | 54 | 894 | 840 |
| Water (kW) | 9 | 132 | 124 |
| Total (kW) | 62 | 1,165 | 1,102 |

## Peak Load Calculation

| | | | |
|---|---|---|---|
| Peak Load (kW) | 112 | 1,851 | **1,739** |
| Systemwide Peak Load (MW) | | 5,854 | 5,854 |
| Percent of Peak | | 0.032% | 0.030% |

[1]2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 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: **2021** (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 | 2021 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1774.20 |
| Los Angeles | 2021 | HHDT | Aggregatec | Aggregatec | GAS | 1.89 | 0.00 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 46.12 |
| Los Angeles | 2021 | LDA | Aggregatec | Aggregatec | GAS | 8195.76 | 0.00 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.43 |
| Los Angeles | 2021 | LDT1 | Aggregatec | Aggregatec | GAS | 1009.57 | 0.00 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 15.84 |
| Los Angeles | 2021 | LDT2 | Aggregatec | Aggregatec | GAS | 3441.72 | 0.00 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 211.28 |
| Los Angeles | 2021 | LHDT1 | Aggregatec | Aggregatec | GAS | 598.07 | 0.00 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 90.14 |
| Los Angeles | 2021 | LHDT2 | Aggregatec | Aggregatec | GAS | 111.80 | 0.00 |
| Los Angeles | 2021 | MCY | Aggregatec | Aggregatec | GAS | 53.90 | 0.00 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 46.02 |
| Los Angeles | 2021 | MDV | Aggregatec | Aggregatec | GAS | 2808.58 | 0.00 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.04 |
| Los Angeles | 2021 | MH | Aggregatec | Aggregatec | GAS | 64.52 | 0.00 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 727.46 |
| Los Angeles | 2021 | MHDT | Aggregatec | Aggregatec | GAS | 264.51 | 0.00 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.68 |
| Los Angeles | 2021 | OBUS | Aggregatec | Aggregatec | GAS | 49.58 | 0.00 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 26.53 |
| Los Angeles | 2021 | SBUS | Aggregatec | Aggregatec | GAS | 10.85 | 0.00 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.25 |
| Los Angeles | 2021 | UBUS | Aggregatec | Aggregatec | GAS | 18.46 | 0.00 |
| | | | | | | 6,069,653,628 | 1,090,251,415 |
| | | | | | Fuel Usage for Project Construction | 89,328 | 202,099 |
| | | | | | Percentage of County for Construction | 0.0015% | 0.019% |

**EMFAC Emission inventories for County**
EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: **2025** (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 | 2025 | HHDT | Aggregatec | Aggregatec | DSL | 0.00 | 1707.97 |
| Los Angeles | 2025 | HHDT | Aggregatec | Aggregatec | GAS | 1.95 | 0.00 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | DSL | 0.00 | 49.38 |
| Los Angeles | 2025 | LDA | Aggregatec | Aggregatec | GAS | 7386.88 | 0.00 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 0.30 |
| Los Angeles | 2025 | LDT1 | Aggregatec | Aggregatec | GAS | 977.96 | 0.00 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 18.22 |
| Los Angeles | 2025 | LDT2 | Aggregatec | Aggregatec | GAS | 3069.91 | 0.00 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | DSL | 0.00 | 228.71 |
| Los Angeles | 2025 | LHDT1 | Aggregatec | Aggregatec | GAS | 543.18 | 0.00 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | DSL | 0.00 | 98.54 |
| Los Angeles | 2025 | LHDT2 | Aggregatec | Aggregatec | GAS | 104.80 | 0.00 |
| Los Angeles | 2025 | MCY | Aggregatec | Aggregatec | GAS | 57.47 | 0.00 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | DSL | 0.00 | 51.21 |
| Los Angeles | 2025 | MDV | Aggregatec | Aggregatec | GAS | 2429.85 | 0.00 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | DSL | 0.00 | 11.24 |
| Los Angeles | 2025 | MH | Aggregatec | Aggregatec | GAS | 58.66 | 0.00 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | DSL | 0.00 | 712.54 |
| Los Angeles | 2025 | MHDT | Aggregatec | Aggregatec | GAS | 245.23 | 0.00 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | DSL | 0.00 | 37.70 |
| Los Angeles | 2025 | OBUS | Aggregatec | Aggregatec | GAS | 43.27 | 0.00 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | DSL | 0.00 | 25.94 |
| Los Angeles | 2025 | SBUS | Aggregatec | Aggregatec | GAS | 12.42 | 0.00 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | DSL | 0.00 | 0.14 |
| Los Angeles | 2025 | UBUS | Aggregatec | Aggregatec | GAS | 16.68 | 0.00 |
| | | | | | | 5,456,109,145 | 1,073,785,458 |
| | | | | | Net Fuel Usage for Project Operation | 273,090 | 53,745 |
| | | | | | Percentage of County for Operation | 0.0050% | 0.0050% |