

**Construction Fuel Consumption**

On-Site Diesel <sup>1</sup> (off-road construction Equipment)	MTCO <sub>2</sub> e	Gallons of Fuel <sup>4</sup>	County Fuel in 2025 (Start of Construction)	Percent
Demolition	70	6,911		
Site Preparation/Grading	150	14,800		
Building Construction	200	19,672		
Paving	8	745		
Architectural Coating	4	394		
<b>Total</b>	<b>432</b>	<b>42,522</b>	<b>532,570,627</b>	<b>0.0080%</b>

Off-Site Diesel <sup>1</sup> (on-road construction trips)	MTCO <sub>2</sub> e	Gallons of Fuel <sup>4</sup>	County Fuel in 2025 (Start of Construction)	Percent
Demolition	102	10,028		
Site Preparation/Grading	0	0		
Building Construction	45	4,472		
Paving	0	0		
Architectural Coating	0	0		
<b>Total</b>	<b>147</b>	<b>14,500</b>	<b>532,570,627</b>	<b>0.0027%</b>

Off-Site Gasoline <sup>2</sup>	MTCO <sub>2</sub> e	Gallons of Fuel <sup>4</sup>	County Fuel in 2025 (Start of Construction)	Percent
Demolition	4	469		
Site Preparation/Grading	8	868		
Building Construction	47	5,354		
Paving	1	112		
Architectural Coating	6	681		
<b>Total</b>	<b>66</b>	<b>7,484</b>	<b>3,536,229,368</b>	<b>0.0002%</b>

Total Diesel Fuel		57,022	532,570,627	0.0107%
Total Gasoline Fuel		7,484	3,536,229,368	0.0002%
<b>Total Construction Fuel</b>	<b>645</b>	<b>64,506</b>		

Construction Phase <sup>3</sup>	Demolition			Site Preparation			Grading/Infrastructure Improvements		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2025	70	102	4	108	0	5	42	0	3
2026	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>70</b>	<b>102</b>	<b>4</b>	<b>108</b>	<b>0</b>	<b>5</b>	<b>42</b>	<b>0</b>	<b>3</b>

Construction Phase <sup>3</sup>	Building Construction (Infrastructure Improvements)			Paving			Architectural Coating		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2025	0	0	0	0	0	0	0	0	0
2026	28	6	7	8	0	1	1	0	6
<b>Total</b>	<b>28</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>6</b>

Construction Phase <sup>3</sup>	Building Construction		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2025	0	0	0
2026	171	39	40
<b>Total</b>	<b>171</b>	<b>39</b>	<b>40</b>

Notes:

<sup>1</sup> Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

<sup>2</sup> Fuel used for worker trips assumed to be gasoline

<sup>3</sup> MTCO<sub>2</sub>e rates from CalEEMod (3.0 Construction Emissions Details).

**Construction Water Energy**

Daily Soil Disturbance <sup>1</sup>	98.5	acres
Days of Soil Disturbance <sup>2</sup>	76	days
Water Concentration <sup>3</sup>	3,020	gallons/acre
Water Energy Intensity <sup>4</sup>	6,807	kWh/MG
Total Construction Water	22.61	million gallons
Construction Water Energy	153,891	kWh
	0.1539	GWh
Los Angeles County Annual Electricity	68,485	GWh
Percentage Increase	0.00022%	

## Notes:

<sup>1</sup> Total daily acres disturbed from offroad equipment per CalEEMod (3.0 Construction Emissions Detail) and maximum SCAQMD LST values for soil-disturbing equipment.

<sup>2</sup> Number of days of construction with soil-disturbing equipment per CalEEMod (5.1 Construction Schedule).

<sup>3</sup> Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.

<sup>4</sup> Water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32.

**Operational Fuel**

MITIGATED							
Vehicle Type	Percent	Annual VMT <sup>1</sup>	MPG <sup>2</sup>	Annual Fuel (Gallons)	Fuel Type	Los Angeles County Gallons <sup>3</sup>	RS Percent
Passenger Cars	0.975	701,954	21.6	32,498	Gas	3,446,400,366	0.0009%
Light/Medium Trucks	0.025	18,182	17.2	1,057	Diesel	535,038,344	0.0002%
Heavy Trucks/Other	0.000	0	6.1	0	Diesel	535,038,344	0.0000%
Total	1.00	720,136		1,057			0.0002%

Land Use <sup>5</sup>	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Unrefrigerated Warehouse-No Rail	65.118	3.0545	15.2808	1.8759	12.1463	2.5248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Notes:

<sup>1</sup> Total annual operational VMT based on annual VMT from CalEEMod (5.9 Operational Mobile Sources).

<sup>2</sup> Average fuel economy derived from Department of Transportation.

<sup>3</sup> Total annual county fuel per EMFAC 2021 model of projected operational fuel usage.

**Operational Water Energy**

<b>UNMITIGATED</b>		
Unmitigated Indoor	23.7	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	6,807	kWh/MG
Unmitigated Outdoor	0	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	6,807	kWh/MG
Operational Water Energy	161,228	kWh
Operational Water Energy	0.1612	GWh
Los Angeles County Annual Electricity	68,485	GWh
Percentage Increase	0.0002%	
<b>MITIGATED</b>		
Mitigated Indoor	23.7	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	6,807	kWh/MG
Mitigated Outdoor	0	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	6,807	kWh/MG
Operational Water Energy	161,228	kWh
Operational Water Energy	0.1612	GWh
Los Angeles County Annual Electricity	68,485	GWh
Percentage Increase	0.0002%	

Land Use <sup>3</sup>	Unmitigated (gal/year)		Mitigated (gal/year)	
	Indoor	Outdoor	Indoor	Outdoor
Unrefrigerated Warehouse-No Rail	23685550	0	23685550	0
Parking Lot	0	0	0	0
<b>Total Operational Water (MG/year)</b>	<b>23.686</b>	<b>0.000</b>	23.686	0

Notes:

<sup>1</sup> Indoor water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32. Factor includes supply, treatment, distribution, and wastewater.

<sup>2</sup> Outdoor water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32. Factor includes supply, treatment, and distribution.

<sup>3</sup> Operational water use values per CalEEMod (5.12 Operational Water and Wastewater Consumption).

**Electricity/Natural Gas Energy**

<b>UNMITIGATED</b>			
	Unmitigated Project Annual Energy	Los Angeles County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	594,215	68,484,956,280	0.0009%
Electricity (GWh/yr)	0.5942	68,485	0.0009%
Natural Gas (kBTU/yr)	1,974,340	282,028,593,500	0.0007%
Natural Gas (therms/yr)	19,743	2,820,285,935	0.0007%
<b>MITIGATED</b>			
	Mitigated Project Annual Energy	Los Angeles County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	0	68,484,956,280	0.0000%
Electricity (GWh/yr)	0.0000	68,485	0.0000%
Natural Gas (kBTU/yr)	0	282,028,593,500	0.0000%
Natural Gas (therms/yr)	0	2,820,285,935	0.0000%

Land Use	Electricity <sup>1</sup> (kWh/yr)		Natural Gas <sup>2</sup> (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Unrefrigerated Warehouse-No Rail	479381.4979	0	1974339.997	0
Parking Lot	114833.9618	0	0	0
<b>Total Energy</b>	<b>594,215</b>	<b>0</b>	<b>1974339.997</b>	<b>0</b>

Notes:

<sup>1</sup> Electricity use per CalEEMod (5.11 Operational Energy Consumption).

<sup>2</sup> Natural Gas use per CalEEMod (5.11 Operational Energy Consumption).

<sup>3</sup> County total energy values from California Energy Commission energy reports available through [ecdms.energy.ca.gov](http://ecdms.energy.ca.gov). (year 2022)