

**Construction Fuel Consumption**

<b>On-Site Diesel<sup>1</sup> (off-road construction Equipment)</b>	<b>MTCO<sub>2</sub>e</b>	<b>Gallons of Fuel<sup>4</sup></b>	<b>County Fuel in 2024 (Start of Construction)</b>	<b>Percent</b>
Demolition	0	0		
Site Preparation/Grading	143	14,089		
Building Construction	213	20,985		
Paving	23	2,266		
Architectural Coating	7	690		
<b>Total</b>	<b>386</b>	<b>38,030</b>	<b>301,210,227</b>	<b>0.0126%</b>

<b>Off-Site Diesel<sup>1</sup> (on-road construction trips)</b>	<b>MTCO<sub>2</sub>e</b>	<b>Gallons of Fuel<sup>4</sup></b>	<b>County Fuel in 2024 (Start of Construction)</b>	<b>Percent</b>
Demolition	0	0		
Site Preparation/Grading	589	58,030		
Building Construction	303	29,852		
Paving	0	0		
Architectural Coating	0	0		
<b>Total</b>	<b>892</b>	<b>87,882</b>	<b>301,210,227</b>	<b>0.0292%</b>

<b>Off-Site Gasoline<sup>2</sup></b>	<b>MTCO<sub>2</sub>e</b>	<b>Gallons of Fuel<sup>4</sup></b>	<b>County Fuel in 2024 (Start of Construction)</b>	<b>Percent</b>
Demolition	0	0		
Site Preparation/Grading	6	681		
Building Construction	323	36,663		
Paving	3	341		
Architectural Coating	34	3,859		
<b>Total</b>	<b>366</b>	<b>41,544</b>	<b>744,534,097</b>	<b>0.0056%</b>

Total Diesel Fuel		125,911	301,210,227	0.0418%
Total Gasoline Fuel		41,544	744,534,097	0.0056%
<b>Total Construction Fuel</b>	<b>1,644</b>	<b>167,455</b>		

<b>Construction Phase<sup>3</sup></b>	<b>Demolition</b>			<b>Site Preparation</b>			<b>Grading/Infrastructure Improvements</b>		
	<b>On-Site Diesel (Off-Road)</b>	<b>Off-Site Diesel (Hauling/Vendor)</b>	<b>Off-Site Gasoline (Worker)</b>	<b>On-Site Diesel (Off-Road)</b>	<b>Off-Site Diesel (Hauling/Vendor)</b>	<b>Off-Site Gasoline (Worker)</b>	<b>On-Site Diesel (Off-Road)</b>	<b>Off-Site Diesel (Hauling/Vendor)</b>	<b>Off-Site Gasoline (Worker)</b>
2024	0	0	0	53	0	2	90	589	4
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>2</b>	<b>90</b>	<b>589</b>	<b>4</b>

<b>Construction Phase<sup>3</sup></b>	<b>Building Construction</b>			<b>Paving</b>			<b>Architectural Coating</b>		
	<b>On-Site Diesel (Off-Road)</b>	<b>Off-Site Diesel (Hauling/Vendor)</b>	<b>Off-Site Gasoline (Worker)</b>	<b>On-Site Diesel (Off-Road)</b>	<b>Off-Site Diesel (Hauling/Vendor)</b>	<b>Off-Site Gasoline (Worker)</b>	<b>On-Site Diesel (Off-Road)</b>	<b>Off-Site Diesel (Hauling/Vendor)</b>	<b>Off-Site Gasoline (Worker)</b>
2024	181	258	275				3		14
2025	32	45	48	23		3	4		20
<b>Total</b>	<b>213</b>	<b>303</b>	<b>323</b>	<b>23</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>34</b>

**Construction Water Energy**

Daily Soil Disturbance <sup>1</sup>	127.0	acres	
Days of Soil Disturbance <sup>2</sup>	52	days	
Water Concentration <sup>3</sup>	3,020	gallons/acre	
Water Energy Intensity <sup>4</sup>	3,218	kWh/MG	
Total Construction Water	19.94	million gallons	
Construction Water Energy	64,180	kWh	
	0.0642	GWh	64.18005
Riverside County Annual Electricity	16,767	GWh	
Percentage Increase	0.00038%		

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.

Vehicle Type	Percent	Annual VMT <sup>1</sup>	MPG <sup>2</sup>	Annual Fuel (Gallons)	Fuel Type	Riverside County Gallons <sup>3</sup>	RS Percent
Passenger Cars	1.00	3,590,196	21.6	166,213	Gas	730,626,739	0.0227%
Light/Medium Trucks	0.37	290,006	17.2	16,861	Diesel	302,370,686	0.0056%
Heavy Trucks/Other	0.63	485,411	6.1	79,576	Diesel	302,370,686	0.0263%
Trucks Total		775,417		96,436		302,370,686	0.0319%
Total		4,365,613					

Land Use <sup>5</sup>	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Parking Lot	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16.7000	20.7000	0.0000	0.0000	0.0000	0.0000	62.6000
Warehouse	68.7328	2.7379	13.6971	1.6815	10.8875	2.2631	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	148.8	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	4,737	kWh/MG
Unmitigated Outdoor	5	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	3,218	kWh/MG
Operational Water Energy	720,929	kWh
Operational Water Energy	0.7209	GWh
Riverside County Annual Electricity	16,767	GWh
Percentage Increase	0.0043%	
<b>MITIGATED</b>		
Mitigated Indoor	148.8	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	4,737	kWh/MG
Mitigated Outdoor	5	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	3,218	kWh/MG
Operational Water Energy	720,929	kWh
Operational Water Energy	0.7209	GWh
Riverside County Annual Electricity	16,767	GWh
Percentage Increase	0.0043%	

720.9294545  
720.93  
16,767,235.88

Land Use <sup>3</sup>	Unmitigated (gal/year)		Mitigated (gal/year)	
	Indoor	Outdoor	Indoor	Outdoor
Warehouse	148,790,644	5,005,648	148,790,644	5,005,648
Parking Lot	0	0	0	0
<b>Total Operational Water (MG/year)</b>	<b>149</b>	<b>5</b>	<b>149</b>	<b>5</b>

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	Riverside County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	3,399,948	16,767,235,877	0.0203%
Electricity (GWh/yr)	3.3999	16,767	0.0203%
Natural Gas (kBTU/yr)	12,284,272	43,084,359,800	0.0285%
Natural Gas (therms/yr)	122,843	430,843,598	0.0285%
<b>MITIGATED</b>			
	Mitigated Project Annual Energy	Riverside County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	3,399,948	16,767,235,877	0.0203%
Electricity (GWh/yr)	3.3999	16,767	0.0203%
Natural Gas (kBTU/yr)	12,284,272	43,084,359,800	0.0285%
Natural Gas (therms/yr)	122,843	430,843,598	0.0285%

<b>Land Use</b>	<b>Electricity<sup>1</sup> (kWh/yr)</b>		<b>Natural Gas<sup>2</sup> (kBTU/yr)</b>	
	<b>Unmitigated</b>	<b>Mitigated</b>	<b>Unmitigated</b>	<b>Mitigated</b>
Warehouse	2,961,240	2,961,240	12,284,272	12,284,272
Parking Lot	438,708	438,708	0	0
<b>Total Energy</b>	<b>3,399,948</b>	<b>3,399,948</b>	<b>12,284,272</b>	<b>12,284,272</b>