

**Table 1 – Total Construction-Related Fuel Consumption**

**Calimesa RIPAOZ Project**

<b>Fuel</b>	<b>Consumption</b>	
<b>Diesel</b>		
On-Road Construction Trips <sup>1</sup>	1,005,290	Gallons
Off-Road Construction Equipment <sup>2</sup>	517,076	Gallons
<b>Diesel Total</b>	<b>1,522,367</b>	<b>Gallons</b>
<b>Gasoline</b>		
On-Road Construction Trips <sup>1</sup>	3,174,712	Gallons
Off-Road Construction Equipment <sup>3</sup>	-	Gallons
<b>Gasoline Total</b>	<b>3,174,712</b>	<b>Gallons</b>

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2023 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for the South Coast Air Basin. See Table 2 for calculation details.
2. Off-road mobile source fuel usage based on a fuel usage rate of 0.05 gallons of diesel per horsepower (HP)-hour, based on SCAQMD CEQA Air Quality Handbook, Table A9-3E.
3. All emissions from off-road construction equipment were assumed to be diesel.

**Table 2 – On-Road Construction Trip Estimates**

**Calimesa RIPA0Z Project**

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage <sup>1</sup>	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker <sup>2,3</sup>	6,213,130	14.7	91,333,011	28.1	Gasoline	3,174,712
Vendor <sup>4</sup>	1,265,050	6.9	8,728,845	9.1	Diesel	1,004,651
Hauling <sup>5</sup>	227	20	4,540	7.1	Diesel	640

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod output (See CalEEMod output) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for 2023 in South Coast Air Basin.
2. Worker trips were assumed to be 100% gasoline powered vehicles.
3. Per CalEEMod, worker Trips were assumed to be 50% LDA, 25% LDT1, and 25% LDT2.
4. Vendor trips were assumed to be 50% MHDT and 50% HHDT, split evenly between the MHDT and HHDT construction categories.
5. Per CalEEMod, hauling trips were assumed to be 100% HHDT.

**Table 3 – Annual Energy Consumption from Operation**

**Calimesa RIPAOZ Project**

Fuel Type	Energy Consumption	Units	Natural Gas	Units
<b>Electricity</b>				
Building <sup>1</sup>	8,079,891	kWh/year	<b>29,671,200</b>	kBTU/yr
Water <sup>2</sup>	2,294,999	kWh/year		
<b>Total Electricity</b>	<b>10,374,890</b>	kWh/year		
<b>Mobile<sup>3</sup></b>				
Gasoline	<b>1,097,973</b>	gallons/year		
Diesel	<b>156,549</b>	gallons/year		

Notes:

1. Building electricity use from CalEEMod output (See CalEEMod output).
2. Calculated based on CalEEMod default annual water consumption using CalEEMod SCAQMD energy intensity of 0.0111 kWhr per gallon for supply, distribution, and treatment of water and .013021 kWhr per gallon for supply, distribution, and treatment of water and wastewater treatment.
3. Mobile source fuel use based on annual vehicle miles traveled (VMT) from CalEEMod output for operational year 2040 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data in the South Coast Air Basin.