

Table 1 – Total Construction-Related Fuel Consumption

Towne Center Specific Plan

Fuel	Consumption	
Diesel		
On-Road Construction Trips ¹	62,729	Gallons
Off-Road Construction Equipment ²	118,158	Gallons
Diesel Total	180,887	Gallons
Gasoline		
On-Road Construction Trips ¹	63,249	Gallons
Off-Road Construction Equipment ³	-	Gallons
Gasoline Total	63,249	Gallons

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2022 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for Riverside County. 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

Towne Center Specific Plan

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage ¹	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker ^{2,3}	123,765	14.7	1,819,346	28.1	Gasoline	63,249
Vendor ⁴	38,154	6.9	263,263	9.1	Diesel	30,234
Hauling ⁵	11,613	20	232,260	7.1	Diesel	32,495

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod output (See Air Quality/GHG Memo) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for 2022 in Riverside County.
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

Towne Center Specific Plan

Fuel Type	Energy Consumption	Units	Natural Gas	Units
Electricity				
Building ¹	2,547,791	kWh/year	3,125,340	kBTU/yr
Water ²	202,222	kWh/year		
Total Electricity	2,750,013	kWh/year		
Mobile³				
Gasoline	201,066	gallons/year		
Diesel	32,251	gallons/year		

Notes:

1. Building electricity use from CalEEMod output (See Air Quality/GHG Memo).
2. Calculated based on the Project's annual water consumption using CalEEMod SCAQMD energy intensity of 0.0111 kWh per gallon for supply, distribution, and treatment of water and 0.013021 kWh 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 2027 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data in Riverside County.