

## **Appendix D2. Energy Data**

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**Focused GPU**

Construction	Construction Activity	Source	CalEEMod CO2e (MT)	Fuel Type	Factor (kg CO2/gallon)	Gallons
Project Construction	Demolition	Offroad Equipment	78	Diesel	10.21	7,640
		Hauling	1,772	Diesel	10.21	173,555
		Vendor	0	Diesel	10.21	-
		Worker	4.3	Motor Gasoline	8.78	490
	Site Preparation	Offroad Equipment	72	Diesel	10.21	7,052
		Hauling	0	Diesel	10.21	-
		Vendor	0	Diesel	10.21	-
		Worker	3	Motor Gasoline	8.78	342
	Grading	Offroad Equipment	225	Diesel	10.21	22,037
		Hauling	263	Diesel	10.21	25,759
		Vendor	0	Diesel	10.21	-
		Worker	8.7	Motor Gasoline	8.78	991
	Paving	Offroad Equipment	38	Diesel	10.21	3,722
		Vendor	0	Diesel	10.21	-
		Hauling	0	Diesel	10.21	-
		Worker	4.8	Motor Gasoline	8.78	547
	Building Construction	Offroad Equipment	284	Diesel	10.21	27,816
		Hauling	0	Diesel	10.21	-
		Vendor	349	Diesel	10.21	34,182
		Worker	481	Motor Gasoline	8.78	54,784
	Architectural Coating	Offroad Equipment	3.3	Diesel	10.21	323
		Hauling	0	Diesel	10.21	-
		Vendor	0	Diesel	10.21	-
		Worker	20	Motor Gasoline	8.78	2,278

Source for conversion factor: U.S. Environmental Protection Agency. "Emissions Factors for Greenhouse Gas Inventories". Last Modified January 15, 2025.  
1 MT = 1,000 kg

Total Project Construction Fuel Use		
	CO2e Emissions	Gallons
Diesel	3,084	302,086
Motor Gasoline	522	59,431

**Brea Core Specific Plan**

Construction	Construction Activity	Source	CalEEMod CO2e (MT)	Fuel Type	Factor (kg CO2/gallon)	Gallons
Project Construction	Demolition	Offroad Equipment	31	Diesel	10.21	3,036
		Hauling	10	Diesel	10.21	979
		Vendor	0	Diesel	10.21	-
		Worker	1.7	Motor Gasoline	8.78	194
	Site Preparation	Offroad Equipment	12	Diesel	10.21	1,175
		Hauling	0	Diesel	10.21	-
		Vendor	0	Diesel	10.21	-
		Worker	1	Motor Gasoline	8.78	114
	Grading	Offroad Equipment	11	Diesel	10.21	1,077
		Hauling	34	Diesel	10.21	3,330
		Vendor	0	Diesel	10.21	-
		Worker	1	Motor Gasoline	8.78	114
	Paving	Offroad Equipment	11	Diesel	10.21	1,077
		Vendor	0	Diesel	10.21	-
		Hauling	0	Diesel	10.21	-
		Worker	2	Motor Gasoline	8.78	228
	Building Construction	Offroad Equipment	251	Diesel	10.21	24,584
		Hauling	0	Diesel	10.21	-
		Vendor	77	Diesel	10.21	7,542
		Worker	149	Motor Gasoline	8.78	16,970
	Architectural Coating	Offroad Equipment	1	Diesel	10.21	98
		Hauling	0	Diesel	10.21	-
		Vendor	0	Diesel	10.21	-
		Worker	2	Motor Gasoline	8.78	228

Source for conversion factor: U.S. Environmental Protection Agency. "Emissions Factors for Greenhouse Gas Inventories". Last Modified January 15, 2025.  
1 MT = 1,000 kg

Total Project Construction Fuel Use		
	CO2e Emissions	Gallons
Diesel	438	42,899
Motor Gasoline	157	17,847

CO2e Vehicle Emissions from GHG Reduction Strategy

Source for conversion factor: U.S. Environmental Protection Agency. "Emissions Factors for Greenhouse Gas Inventories". Last Modified January 15, 2025.

**Focused GPU**

Scenario	GHG Emissions CO2e (MT/year)	Fuel Type	Factor (kg CO2/gallon)	Gallons
Existing (2025)	265,749	Motor Gasoline	8.78	30,267,540
Buildout (2050)	248,297	Motor Gasoline	8.78	28,279,841
Net Change				(1,987,699)

**BCSP**

Scenario	GHG Emissions CO2e (MT/year)	Fuel Type	Factor (kg CO2/gallon)	Gallons
Existing (2025)	50,421	Motor Gasoline	8.78	5,742,711
Buildout (2050)	62,034	Motor Gasoline	8.78	7,065,376
Net Change				1,322,665