

Appendix D  
**Energy Consumption  
Worksheets**

## Project Energy Calculations

### Construction Energy

	fuel	MT	LBS	Gallons	Million BTU
CO2 from diesel - offroad equip & onroad trucks	diesel	1762	3883470	172528	23,702
CO2 from gasoline - worker commute	gas	374	824525	42597	5,126
<b>Total</b>		<b>2,135.5</b>	<b>4,707,995</b>	<b>215,125</b>	<b>28,828</b>

### Operational Outputs from CalEEMod

Proposed Project	kbtu of NG/yr	kwh of elec/yr	Annual VMT	Vehicle CO2 (MT/yr)	Gallons/yr.
Natural Gas	6,611,610				
Electricity		3,533,210			
Mobile - Gasoline			9,111,863	3645.50	415,204.81
Mobile - Diesel				157.27	15,403.21

### Operational Energy

#### Proposed Project

			BTU/Year	Million BTU/Year
Electricity	3,533,210	kwh	12,055,312,520	12,055
Natural Gas	6,611,610	kbtu	6,611,610,000	6,612
Mobile			52,078,948,705	52,079
				<b>70,746</b>

BTU per kWh

3,412

LBs CO2 per gal diesel

22.5

CR 2017, Transport Fuels, Table 13.1

LBs CO2 per gal gasoline

19.4

CR 2017, Transport Fuels, Table 13.1

LBs per MT

2204.62

Energy Unit

BTU/gal

Gasoline

120,333

US EIA 2019

Diesel

137,381

US EIA 2019

Million

1000000