

# Round Mountain 500kV Dynamic Reactive Support Project

## Project Fuel Use Calculations - Project Construction

Fuel Usage (gallons) = CO<sub>2</sub> emission (kg) / fuel combustion rate (kg/gallon)

<b><u>Diesel Emissions</u></b>	
off road equipment	2794.0576 MT
onroad (haul & vendor trips)	316.0488 MT
Total Diesel Emissions	3110.1064 MT
kg/MT	1000
Total CO <sub>2</sub> Emissions (kg)	3110106.4 kg

Diesel fuel combustion rate 10.21 kg/gallon

Diesel fuel consumption 304,613.75 gallons

<b><u>Gasoline Emissions</u></b>	
Worker Trips	249.7184 MT
kg/MT	1000
Total Emissions (kg)	249718.4 kg

Gasoline combustion rate 8.78 kg/gallon

Gasoline consumption 28,441.73 gallons

### **Notes**

Combustion rates taken from The Climate Registry 2020 default emission factors (Table 2.1).

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## Project Fuel Use Calculations - Project Operations

Fuel Usage (gallons) = CO<sub>2</sub> emission (kg) / fuel combustion rate (kg/gallon)

<b><u>Diesel Emissions</u></b>	
off road equipment	0 MT
onroad (haul & vendor trips)	0 MT
Total Diesel Emissions	0 MT
kg/MT	1000
Total CO <sub>2</sub> Emissions (kg)	0 kg

Diesel fuel combustion rate 10.21 kg/gallon

Diesel fuel consumption 0 gallons

<b><u>Gasoline Emissions</u></b>	
Worker Trips	5.4693 MT
kg/MT	1000
Total Emissions (kg)	5469.3 kg

Gasoline combustion rate 8.78 kg/gallon

Gasoline consumption 623 gallons

### **Notes**

Combustion rates taken from The Climate Registry 2020 default emission factors (Table 2.1).