

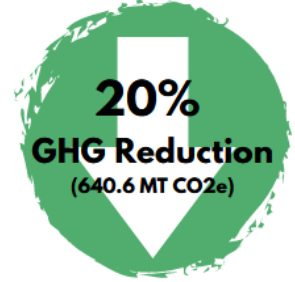
# 2030 Municipal Greenhouse Gas Emissions Reduction Plan

2021 GHG emissions baseline: 3,203 MT CO<sub>2</sub>e

2030 GHG emissions goal: 2,562.4 MT CO<sub>2</sub>e

GHG: greenhouse gas;

MT CO<sub>2</sub>e: metric tons carbon dioxide equivalent

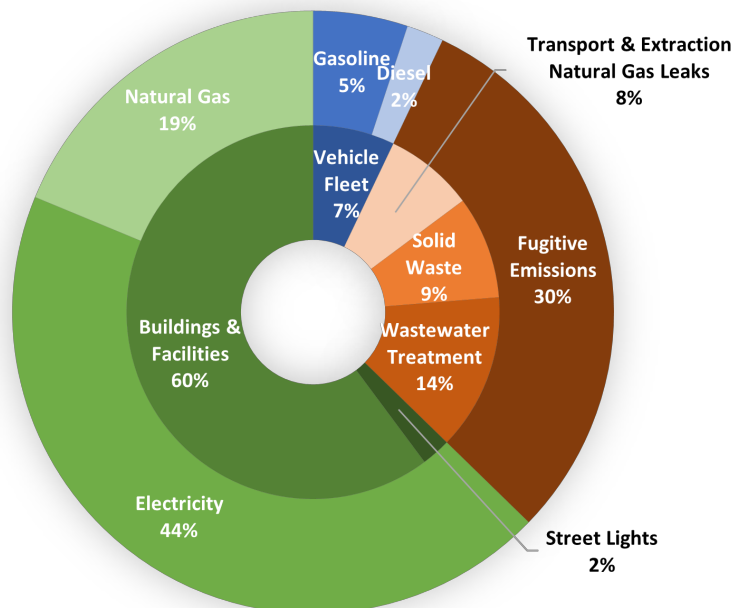


Implement	Learn & Connect	Partner
Focus on implementing energy efficiency in municipal buildings.	Conduct two seasonally distinctive waste audits of the municipal waste stream.	Form project partnerships with other local governments and community-based organizations in Fremont County and throughout the region to increase the City's grant competitiveness.
Pursue opportunities to peak shave electricity demand using batteries and solar energy at municipal facilities.	Learn from other towns in the region how electric vehicles and hybrids are functioning in their fleets.	
Other projects proven to reduce GHG emissions as approved by city council and promoted by city staff.		

*The utility grid that services the City of Lander will also be lessening its greenhouse gas intensity, thereby automatically lowering the City's GHG emissions from electricity.*

## GHG EMISSIONS BY SECTOR AND SOURCE

(MT CO<sub>2</sub>e)



## Potential Projects

City of Lander adopt the 2021 International Energy Conservation Code for municipal buildings.  
Contract an Energy Performance Contractor to conduct an investment grade audit of all city facilities.

City Facility	Airport Communications Shed	Rural Water House	Wastewater Treatment Building	Community Center	Water Treatment Plant	City Hall / Police Department
2021 Electricity cost	\$2,007 Total \$31.36/ft. <sup>2</sup>	\$1,818 Total \$9.09/ft. <sup>2</sup>	\$7,545 Total \$5.08/ft. <sup>2</sup>	\$28,386 Total \$0.83/ft. <sup>2</sup>	\$17,553 Total \$0.87/ft. <sup>2</sup>	\$8,723 Total \$0.60/ft. <sup>2</sup>
2021 Natural gas cost	No service	\$649 Total \$3.24/ft. <sup>2</sup>	No service	\$7,796 Total \$0.23/ft. <sup>2</sup>	\$20,619 Total \$1.03/ft. <sup>2</sup>	\$2,097 Total \$0.14/ft. <sup>2</sup>
2021 GHG emissions	17.11 MT/MWh	15.22 MT/MWh	71.95 MT/MWh	137.85 MT/MWh	137.08 MT/MWh	78.47 MT/MWh
<i>Recommended Projects</i>	<p>Insulate cinder block structure.</p> <p>Provide necessary heat for equipment while also allowing for adequate ventilation.</p>	<p>Insulate cinder block structure or replace with a well insulated wooden one.</p> <p>Put the electric heater on a thermostat.</p> <p>Build a covered structure over the fill station or foam insulate under the heating pads.</p>	<p>Insulate heated areas of the building.</p> <p>Replace electric baseboard heaters with high efficiency heat pumps.</p>	<p>Create a management plan for right sizing refrigeration based on event needs.</p> <p>Pursue solar with battery storage to reduce GHG emissions, shave peak demand, and provide power back-up during grid outages.</p>	<p>Insulate the building.</p> <p>Consult the investment grade audit for other implementation steps.</p>	<p>Pursue solar with battery storage to reduce GHG emissions, shave peak demand, and provide redundant power back-up during grid outages.</p> <p>Install high efficiency heat pumps to replace old air conditioners.</p>

