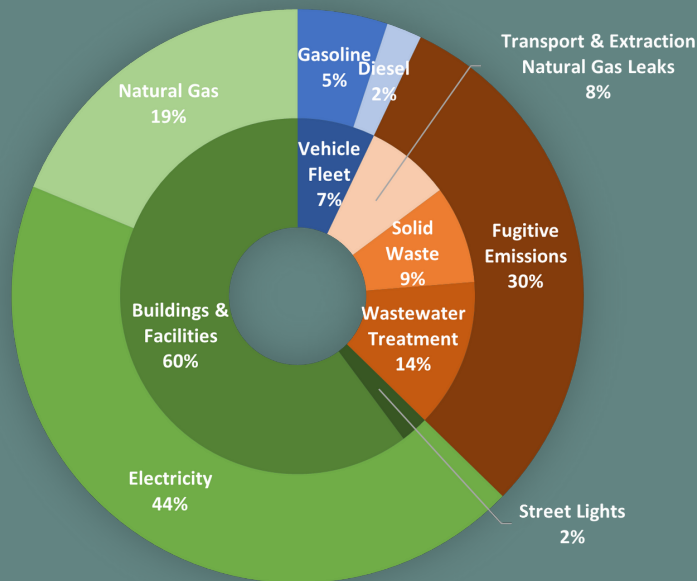


## 2020 MAYORAL PROCLAMATION

“supporting the intent to reduce greenhouse gas emissions to enhance community resilience, quality of life, and economic prosperity for current and future generations.”

## 2021 GREENHOUSE GAS EMISSIONS

TOTAL = 3,203 METRIC TONS OF CARBON DIOXIDE EQUIVALENT



The inner pie shows the emission sectors. The outer pie corresponds the source of emissions to the sector. Both pies equal the same total emissions.

## LEARN MORE

Find the full version of the 2021 Municipal Energy & Environment Report on the City of Lander's website under Boards and Commissions.

[https://www.landerwyoming.org/government/boards\\_and\\_commissions/index.php](https://www.landerwyoming.org/government/boards_and_commissions/index.php)

## SUPPORTERS



Photo courtesy of Brian Linton

2021  
AT A GLANCE

## CONNECT

City Energy & Environment Task Force  
[landereetaskforce@gmail.com](mailto:landereetaskforce@gmail.com)

Lander Climate Action Network  
[info@landercan.org](mailto:info@landercan.org)

Climate Mitigation Strategies LLC  
Kara Colovich  
307-349-4772

CITY OF LANDER

## MUNICIPAL ENERGY & ENVIRONMENT REPORT

Product of Climate Mitigation Strategies LLC

# BUILDINGS & LIGHTING

\$247,396 municipal energy costs

6 electric meters charged demand billing

Flat-rate street lighting costs 6x more than metered lighting.

## OPPORTUNITIES

- Continue energy auditing facilities and implementing energy efficiencies.
- Lower costs on demand charge meters by scheduling when electrical loads run. Consider using solar or solar with batteries to further lower costs.
- Take advantage of decreasing electricity costs, tax incentives, and a transitioning electrical grid to electrify buildings.
- Research energy conservation building codes to adopt city-wide.

## CITY VEHICLE FLEET



\$65,795 municipal fuel costs

121 city fleet vehicles

## OPPORTUNITIES

- Right-size the fleet to meet each department's needs.
- Integrate more hybrids and electric vehicles into the fleet to save on costs and greenhouse gas emissions.

## 2021 INSIGHTS

## SOLID WASTE OPPORTUNITIES

\$20,945 municipal waste costs

170 tons of trash taken to the landfill, that's about weight of 30 full-grown elephants!



- Conduct a waste audit to see whether recycling and/or composting could be waste diversion solutions.
- Put support behind methane capture at the county landfill.



## WASTEWATER TREATMENT

Lander's wastewater is treated by sewage lagoons. Bacteria help breakdown biosolids but release methane as waste.

## OPPORTUNITIES

- Research methane capture and its uses for the sewage lagoons.
- Research low of anaerobic digesters or hydrothermal carbonization, if the city transitions to a regional facility.

## UPSTREAM NATURAL GAS EMISSIONS



## OPPORTUNITIES

- Reduce natural gas consumption by electrifying space heating and water heating.

An additional 4% of the natural gas the city consumes is leaked into the atmosphere during extraction & transportation.

## NEXT STEPS

### ... For City Council

- Set greenhouse gas emissions reduction goals for municipal operations.
- Integrate climate mitigation & adaptation strategies into the city's strategic plan and master plan.

### ...For City Staff:

- Implement energy efficiency projects identified by the E&E Task Force.
- Test drive electric vehicles.
- Identify departmental transportation needs.
- Assess grid vulnerabilities with Rocky Mountain Power and inquire about high costs of flat rate street lighting.
- Work with community partners to perform a waste audit of city buildings and the city's public spaces.