



Inventory Results for the City of Poughkeepsie

Dutchess Climate Action Planning Institute

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Department of
Environmental
Conservation



The City of Poughkeepsie

- City of 31,850 people
- 343 active full-time employees
- The City of Poughkeepsie is a Bronze Star CSC municipality with 20 completed action;
 - LED Street Lights
 - Policies for local Food Systems
 - Green Parking Lot Policies (Poughkeepsie Innovation District)
 - Alternative-fuel Infrastructure

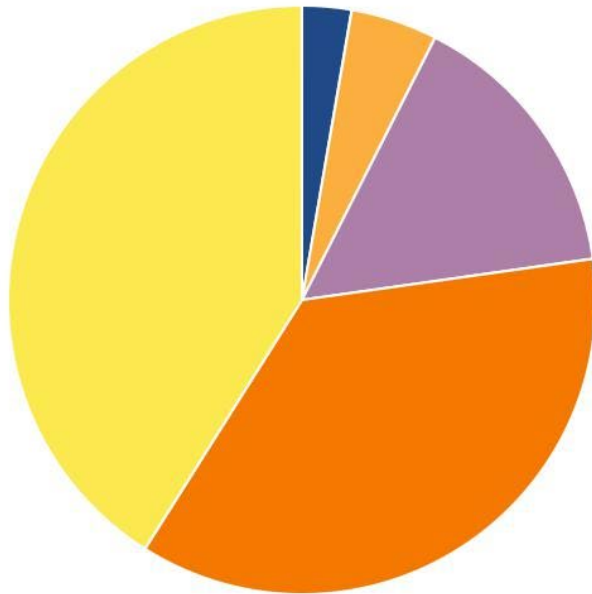


Inventory Background

- Baseline year: 2019
- City Hall, Police, Fire, Public Works were all considered
- Scopes
 - Buildings & Facilities
 - Vehicle Fleet
 - Water
 - Solid Waste
 - Lighting
 - Employee Commute - Pending
- Acknowledgements / Thanks: Mary Lambert, Adam Yanjiekko, Brian Finn, Al Reinhardt

Emissions by Sector

CO2e By Category



- Solid Waste Facilities
- Street Lights & Traffic Signals
- Water & Wastewater Treatment Facilities
- Vehicle Fleet
- Buildings & Facilities

Total- 3,320 Million Tons of CO2 Equivalent

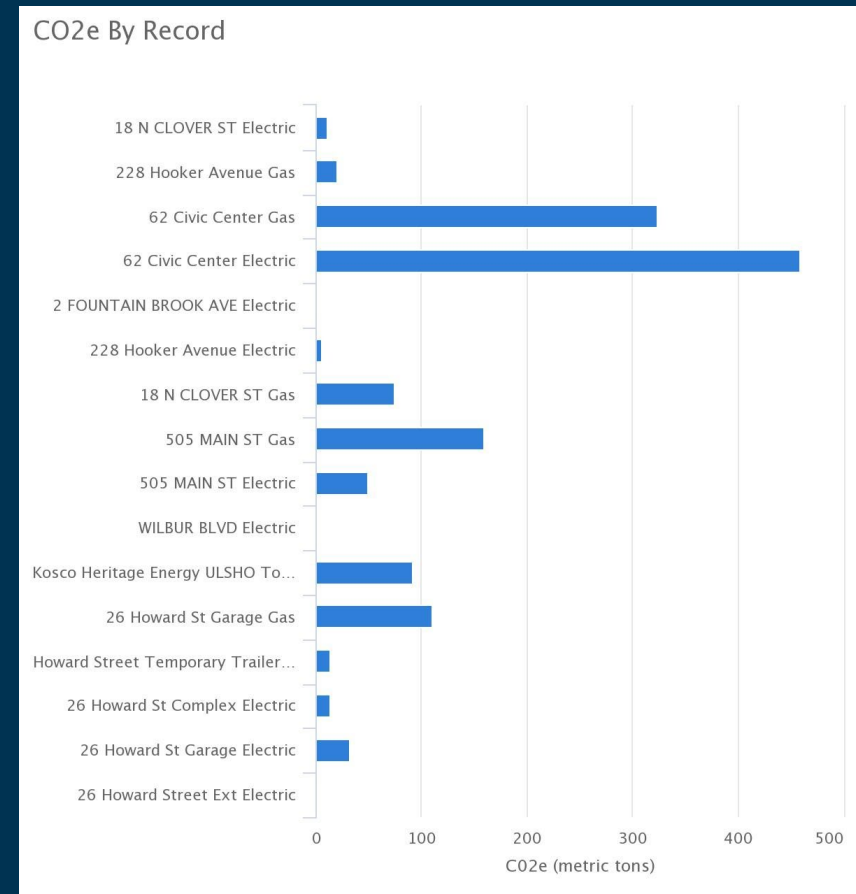
- Buildings & Facilities - 1,362 CO2e
- Vehicle Fleet – 1,202 CO2e
- Water & Wastewater – 507 CO2e
- Street & Traffic Lights – 159 CO2e
- Solid Waste Facilities – 90 CO2e



More on Emissions by Sector

1. Buildings and Facilities
 1. City Hall, 57% of emissions
2. Vehicle Fleet
 1. 51% Diesel (Montello), 49% Gas (Wex)
3. Solid Waste
 1. Calculated estimate of City employee's portion of city-wide waste.
4. Employee Commute
 1. Data validity threshold pending
5. Streetlights
 1. 96% Street Lights, 4% Traffic Lights
 2. Traffic kWh sourced differently than streetlights
6. Wastewater and/or Water Treatment Facility
 1. Bulk of emissions from the 173 Kittiridge Treatment Facility. KWh's used is based on a population proportion of the plants aggregate kWh's.

Buildings & Facilities Breakdown



Challenges

- Discrepancy between the lights used by the City and the options available in the lighting kWhs calculator
 - Solved by Mary Lambert (thank you)
- Uncertainty about how to input the Ultra Low Sulfur Heating Oil the City uses into Clearpath
 - Solved by Caroline Dickey (thank you)
- Traffic light records separated from the rest of the Central Hudson records
- Lack of off-road vehicle data
- Fleet info divided by gas/diesel, but not department
- 173 Kittiridge Blvd Water Treatment Facility a joint venture, was roughly disaggregated
- Insufficient responses on the Employee Commute survey



Take Aways

- Vehicle fleet is somewhat larger than expected.
- Fleet breakdown by department would have been nice.



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Thank You

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