



Lake County's Carbon Footprint

Preliminary Analysis

December 11, 2018

Lake County government consistently works to advance the sustainability goals articulated in its Strategic Plan and subsequent updates. One of the goals was to develop a suite of sustainability performance measurements, one of which is presented in this report: the County's greenhouse gas emissions inventory.

This inventory includes facility and fleet operations within the County government's control, e.g., its own buildings and vehicle fleet. The annual emissions rate is based on the average utility/fuel consumption over three years of data for natural gas and fleet fuel, and two years for electricity. Comprehensive data on waste and recycling is not yet available but it will be included in a future version¹.

Emissions Source	Annual Average	MtCO ₂ e ² (Baseline)	% of Total
Electricity (kWh)	63,978,254.21	27,917.94	75.28%
Natural Gas (Therms)	788,076.39	4,178.00	11.27%
Fuel - gasoline (gal)	408,826.33	3,633.33	9.80%
Fleet Fuel - B5 biodiesel (gal)	143,635.67	1,356.11	3.66%
Total emissions (MtCO₂e)		37,085.39	100.00%

Key Findings

- Facility energy use accounts for almost 87% of the total emissions.
- Total fleet fuel consumption decreased by nearly 7% (2014-2016).

Ratio Indicators

An organization's emissions rate is evaluated relative to its size, and the following ratio indicators can be used to describe Lake County's emissions.

- 74.73 MtCo₂e per \$1M of the County Budget
- 14.39 MtCO₂e per County employee
- .14 MtCo₂e per household
- .05 MtCO₂e per resident

Should the data become available, future updates of this analysis may offer the emissions per square foot of County buildings or the average emissions per County fleet vehicle.

¹ Based on GHG inventories of other units of government, waste is expected to be less than 3% of the County's total emissions.

² Metric Tons Carbon Dioxide Equivalent