# La Crosse Community
# Greenhouse Gas Inventory

## Greenhouse Gas Sectors
Where do GHGs come from?

**Energy**
Emissions are produced from the combustion of natural gas, coal, and other fossil fuels primarily for heating, cooling, and electricity generation.

**Transportation**
Emissions come from the combustion of fossil fuels for ground transportation and air travel.

**Solid Waste**
Emissions in the inventory estimate the decomposition of biodegradable waste (e.g., food and yard waste) in the landfill.

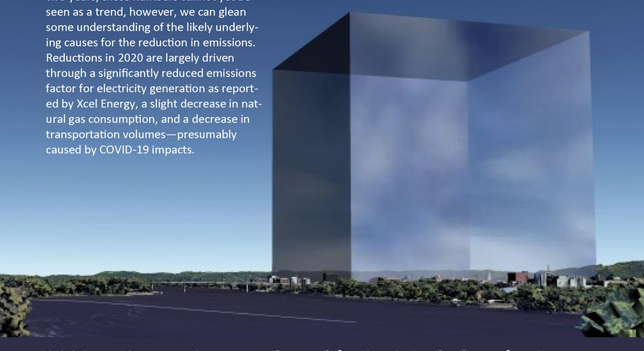
**Water + Wastewater**
Emissions from energy uses are calculated for the collection and treatment of wastewater.

## City of La Crosse Greenhouse Gas Emissions Trends

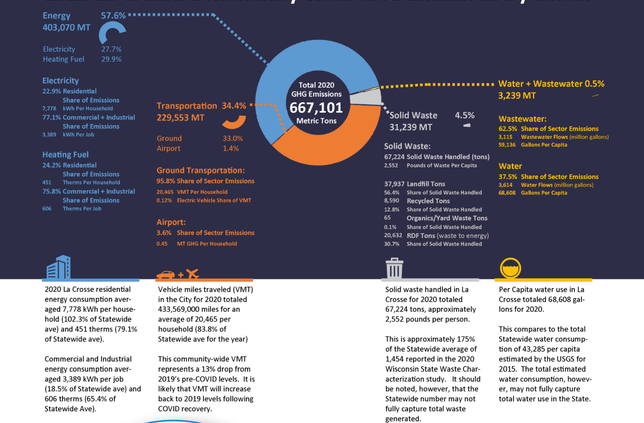
| 2019 By The Numbers | 2020 By The Numbers | 2 Year History Dashboard |
|---|---|---|
| GHG Emissions | GHG Emissions | GHG Emissions |
| 775,227 | 667,101 | -108,126 -13.95% |
| 15.00 MT Per-Capita | 12.7 MT Per-Capita | -2.34 MT Per-Capita |
| 15.72 MT / Job | 13.53 MT / Job | -2.19 MT / Job |
| 0.2235 MT / $1,000 GDP | 0.1963 MT / $1,000 GDP | -0.03 MT / $1,000 GDP |
| Population | Population | Population |
| 51,666 | 52,680 | +1,014 +1.96% |
| GDP | GDP | GDP |
| $3,469,222,001 | $3,399,092,125 | -$70,129,876 -2.02% |
| $67,147 GDP Per-Capita | $64,523 GDP Per-Capita | -$2,624 GDP Per-Capita |
| Employment | Employment | Employment |
| 49,316 | 49,316 | 0 0% |

### La Crosse's GHG Emissions
Community wide total emissions for the City of La Crosse decreased from 775,227 metric tons in 2019 to 667,101 metric tons in 2020. As an historic review of just two years, these numbers cannot yet be seen as a trend, however, we can glean some understanding of the likely underlying causes for the reduction in emissions. Reductions in 2020 are largely driven through a significantly reduced emissions factor for electricity generation as reported by Xcel Energy, a slight decrease in natural gas consumption, and a decrease in transportation volumes—presumably caused by COVID-19 impacts.

### How Large Are Community Wide GHG Emissions?
The community's total emissions for 2019 are equal to **13.1 Billion** cubic feet of man-made greenhouse gas. This volume of atmosphere is equal to a cube **2,357** feet on each face viewed here from over 2 1/2 miles away.



## 2020 La Crosse Community Wide GHG Emissions by Sector




2020 La Crosse residential energy consumption averaged 7,778 kWh per household (102.3% of Statewide ave) and 451 therms (79.1% of Statewide ave).

Commercial and Industrial energy consumption averaged 3,389 kWh per job (18.5% of Statewide ave) and 606 therms (65.4% of Statewide Ave).

Vehicle miles traveled (VMT) in the City for 2020 totaled 433,569,000 miles for an average of 20,465 per household (83.8% of Statewide ave for the year)

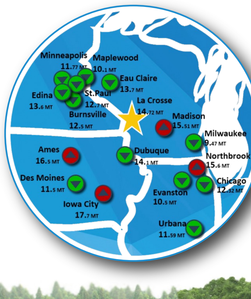
This community-wide VMT represents a 13% drop from 2019's pre-COVID levels. It is likely that VMT will increase back to 2019 levels following COVID recovery.

Solid waste handled in La Crosse for 2020 totaled 67,224 tons, approximately 2,552 pounds per person.

This is approximately 175% of the Statewide average of 1,454 reported in the 2020 Wisconsin State Waste Characterization study. It should be noted, however, that the Statewide number may not fully capture total waste generated.

Per Capita water use in La Crosse totaled 68,608 gallons for 2020.

This compares to the total Statewide water consumption of 43,285 per capita estimated by the USGS for 2015. The total estimated water consumption, however, may not fully capture total water use in the State.




### How Does La Crosse Stack Up?
City of La Crosse's 2019 pre-COVID community wide emissions average of 14.7 metric tons (MT) per person. Of course, this number represents only an average. On the map to the left you can see how that compares with other communities in our area.

### How Large is 14.7 Metric Tons?
The City of La Crosse's pre-COVID community wide emissions per-capita for 2019 are equal to **287,522** cubic feet of man-made greenhouse gas. This volume of atmosphere is equal to a cube 66' feet on each face.

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