

# Edina 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 Edina Greenhouse Gas Emissions Trends

### 2013 By The Numbers

**GHG Emissions**  
727,384  
14.97 MT Per-Capita  
14.92 MT / Job  
0.1617 MT / \$1,000 GDP

**Population**  
48,574

**GDP**  
\$4,499,007,932  
\$92,622 GDP Per-Capita

**Employment**  
48,747

### 2019 By The Numbers

**GHG Emissions**  
716,715  
13.56 MT Per-Capita  
16.91 MT / Job  
0.1364 MT / \$1,000 GDP

**Population**  
52,857

**GDP**  
\$5,253,794,747  
\$99,396 GDP Per-Capita

**Employment**  
42,386

### 6 Year Trend Dashboard

**GHG Emissions**  
-10,669 -1.47%  
-1.42 MT Per-Capita  
+1.99 MT / Job  
-0.03 MT / \$1,000 GDP

**Population**  
+4,283 +8.82%

**GDP**  
+\$754,786,815 +16.78%  
+\$6,775 GDP Per-Capita

**Employment**  
-6,361 -13.05%

### Edina GHG Emissions Overview

Community wide total emissions for the City of Edina dropped 9.4% from 103,940 metric tons in 2013 to 93,735 metric tons in 2019.

### Think Economic Development is Tied To Increased Emissions?

Think again! Between 2013 and 2019 the City was able to decrease it's GHG emissions by 1.5% while growing it's economy by 16.8% (pro rata share of County reporting).



### How Large Are Community wide GHG Emissions?

The community's total emissions for 2019 are equal to **14.1 Billion** cubic feet of man-made greenhouse gas. This volume of atmosphere is equal to a cube **2,400** feet on each face viewed here from over 2 1/2 miles away.



### Energy

402,150 MT

56.1%

Electricity 26.6%

Heating Fuel 29.5%

Change Since 2013:

-9.7%

### Residential:

- 3.6% Change in GHG
- +0.7% Electrical Consumption
- 1.5% Per Household
- +17.8% NG Consumption
- +15.2% Per Household

### Commercial:

- 5.2% Change in GHG
- 10.5% Electrical Consumption
- +4.1% Per Job
- +3.8% NG Consumption
- +20.7% Per Job

### Industrial:

- 21.3% Change in GHG
- +0.7% Electrical Consumption
- 5.1% Per Job

### Transportation 40.9%

46,859 MT

Ground 40.9%

Airport Not Included

Change Since 2013:

+12.8%

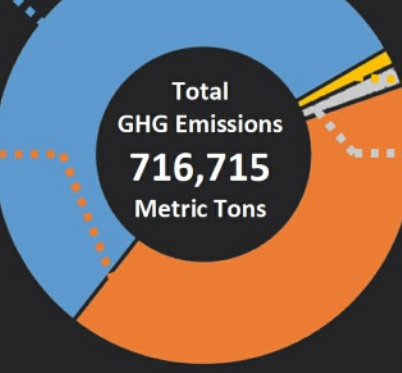
### Ground Transportation:

- +12.8% Change in GHG
- +13.4% VMT Change Per Household

Since 2013, vehicle miles traveled (VMT) increased by 13.4% per household—almost twice the Statewide increase. VMT per capita in Edina is 102% of the State of Minnesota per capita average.

Air transportation emissions are not included in this inventory.

### 2019 Edina Community Wide GHG Emissions by Sector



### Water + Wastewater 0.5%

446 MT

Change Since 2013:

+1.8%

### Solid Waste 1.7%

12,047 MT

Change Since 2013:

+19.9%

### Solid Waste:

- +19.9% Change in GHG
- +26.3% Solid Waste Handled
- +23.5% Per Household
- +14.0% Landfill Tons
- +11.5% Per Household
- +54.3% Recycled Tons
- +50.9% Per Household
- +216.4% Organics/Yard Waste
- +209.4% Per Household

### Wastewater:

- +4.9% Change in GHG
- 1.1% Wastewater Flows
- 1.1% Gallons Per Household

### Water

- 14.8% Change in GHG
- 18.9% Water Flows
- 20.7% Gallons Per Household
- 14.8% Process Electricity

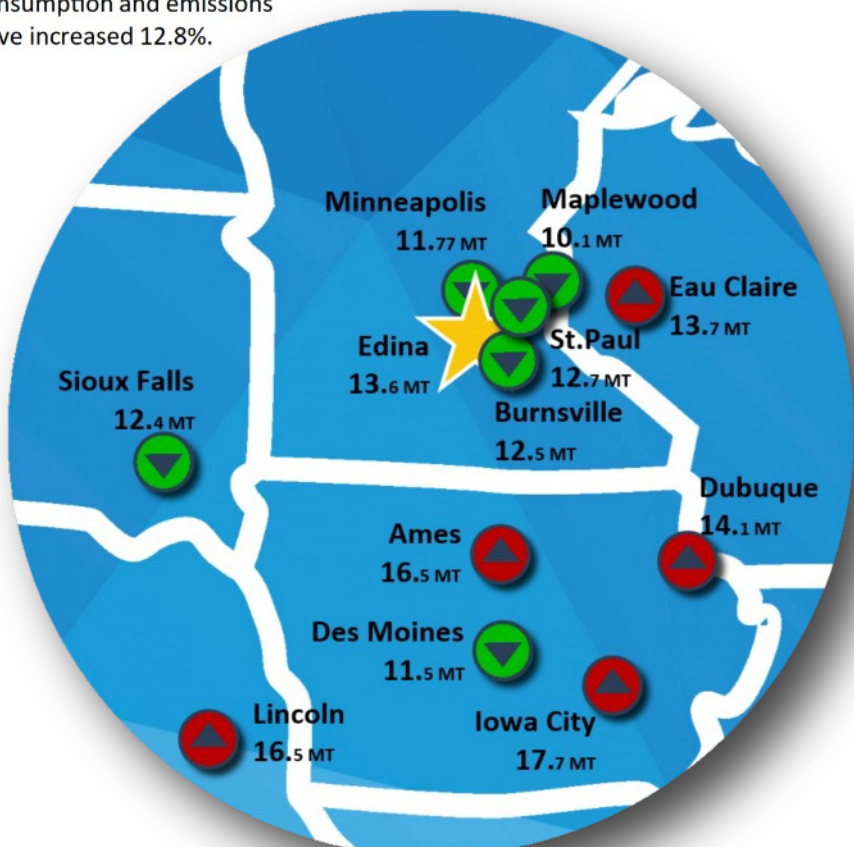
Since 2013, electricity consumption has decreased nearly 11% due largely to reductions in commercial (-17.9%) and industrial (-11.1%) use. Emissions associated with electricity, however, have fallen 26% due to increased decarbonization of the electricity provided to Edina by Xcel Energy. Unfortunately, natural gas consumption and emissions have increased 12.8%.

Since 2013, vehicle miles traveled (VMT) increased by 13.4% per household—almost twice the Statewide increase. VMT per capita in Edina is 102% of the State of Minnesota per capita average.

Air transportation emissions are not included in this inventory.

Total solid waste handled per household in Edina have increased 26.3% since 2013. Over the same period, total emissions have increased 19.9%. Emissions increases would have been much higher, however, increases in recycling and organics collections have helped to decrease per-ton solid waste emissions in the community.

Per-household wastewater flows have decreased a little over 1% since 2013, however, emissions associated with wastewater treatment are estimated to have increased 4.9% due to waste water process energy consumption. Water consumption has decreased almost 19% during the same time period. Combined, this sector has decreased emissions 1.8%.

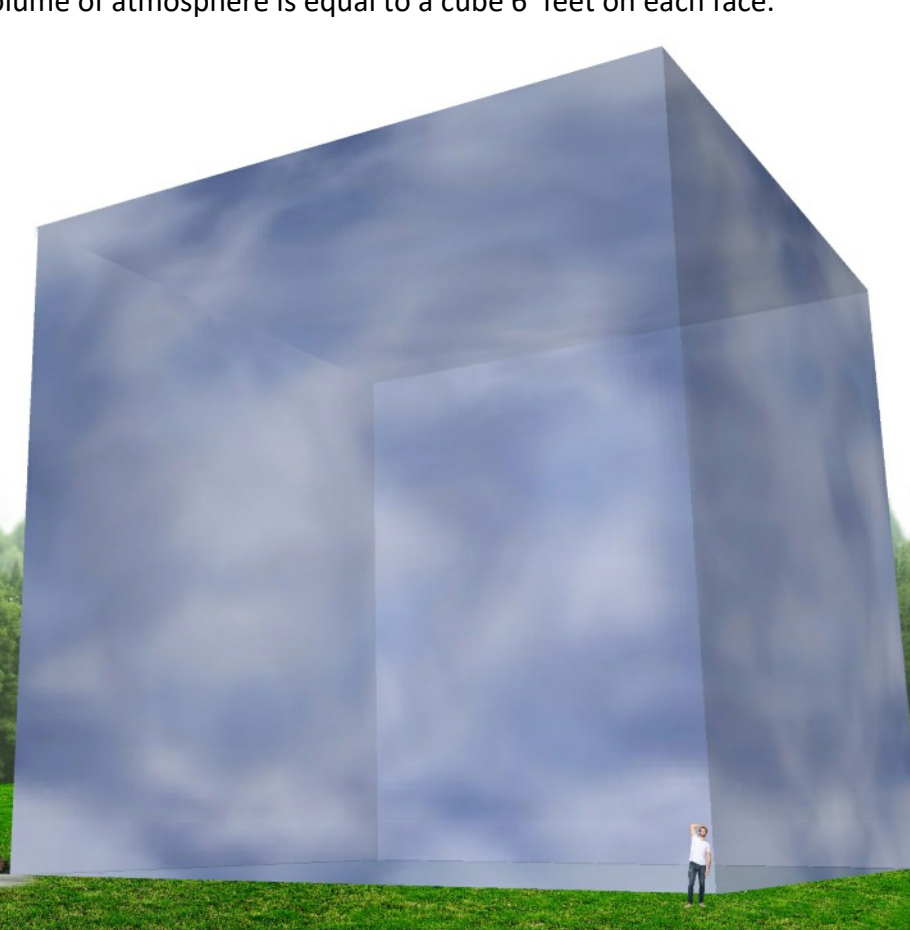


### How Does Edina Stack Up?

City of Edina's 2019 community wide emissions average of 13.6 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 municipalities in our area.

### How Large is 13.6 Metric Tons?

The City of Edina's community wide emissions per person for 2019 are equal to **267,177** cubic feet of man-made greenhouse gas. This volume of atmosphere is equal to a cube **6'** feet on each face.



The CITY of EDINA

