

# HARRISONBURG'S GREENHOUSE GAS (GHG) EMISSIONS

## COMMUNITY INVENTORY

"Community GHG Emissions Inventory quantifies the emissions released from a defined geographic area (Harrisonburg, VA) during a given year." -mapc.org

### 2019 COMMUNITY GHG EMISSIONS BY SECTOR



Transportation 34.5%



Commercial 31.1%



Residential 11.7%



Solid Waste 10.9%



Industrial 9.7%



Grid loss 1.6%



Water & Wastewater .5%

2019  
**530,000**

metric tons of CO<sub>2</sub> equivalent



9%  
since 2016

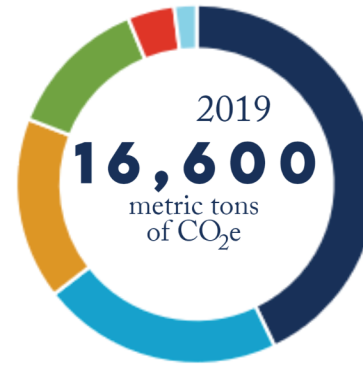
530,000 metric tons of CO<sub>2</sub>e is equivalent to driving your car 1.3 BILLION miles ... in one year.



## MUNICIPAL INVENTORY

Municipal GHG Emissions include all buildings, vehicles, and equipment operated by the City of Harrisonburg and Harrisonburg City Public Schools.

### 2019 MUNICIPAL GHG EMISSIONS PROFILE



- Buildings 42.9%
- Vehicle Fleet 21.6%
- Water & Sewer 16.4%
- Transit Fleet 12.9%
- Street/Traffic Lights 4.2%
- Electric Grid Loss 2%

2016 to 2019



16%

### WHAT ARE GREENHOUSE GASES?

Greenhouse gases are chemicals in the atmosphere that absorb radiation and therefore warm the atmosphere and the planet. These gases, which include carbon dioxide, methane, and various refrigerants, are released into the atmosphere by various human activities. GHGs are strongly linked to increasing global temperatures and extreme weather events, such as extended heat waves and more extreme rain events.

ONE OF THE MANY CITY PROGRAMS THAT IS HELPING IS OUR URBAN FORESTRY PROGRAM!



Trees help fight climate change by removing carbon dioxide from the air and storing carbon in the trees and soil.



The GHG Emissions Inventory was completed as recommended by the Environmental Action Plan adopted on January 14, 2020. Scan the QR Code to go to the EAP webpage where you can find links to the full Environmental Action Plan created by Harrisonburg City Staff and the Environmental Performance Standards Advisory Committee and the GHG Emissions Inventory report created by Dr. Sean McGinnis.



# Where do our community's greenhouse gas (GHG) emissions come from?

