

Ann Arbor Community-Wide Greenhouse Gas Inventory



Prepared by the Office of Sustainability and Innovations
2022 Inventory Update

GHG Inventory Background

Annually estimated

Based on aggregated, scaled, and/or modeled data

Estimated using the ICLEI US Community Protocol

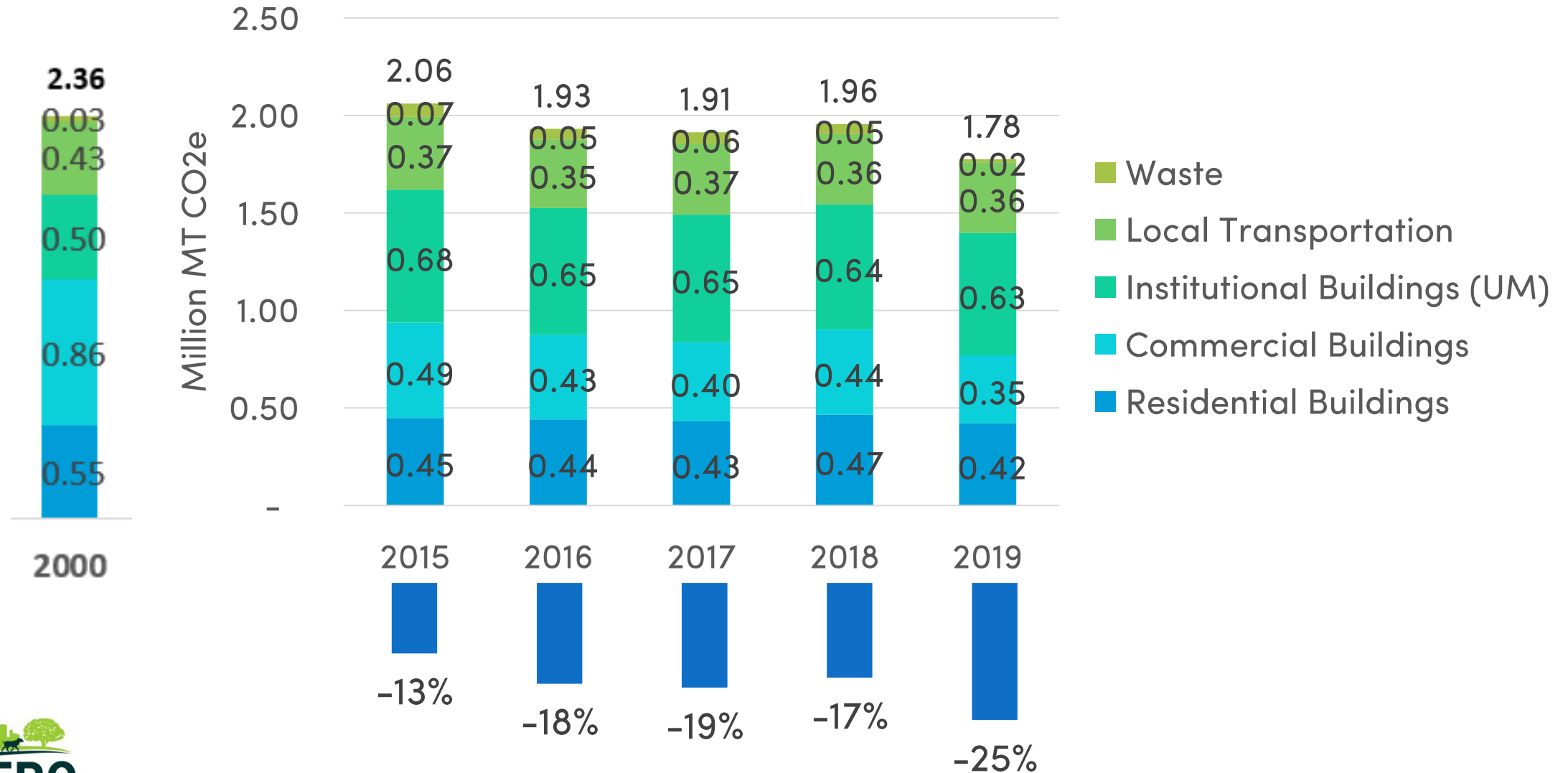
Greenhouse gases included:

1. CO₂
2. N₂O – 28x more potent
3. CH₄ – 265x more potent

For household carbon footprint estimates:

<https://coolclimate.berkeley.edu/calculator>

Simple Inventory Emission Trends Since 2000



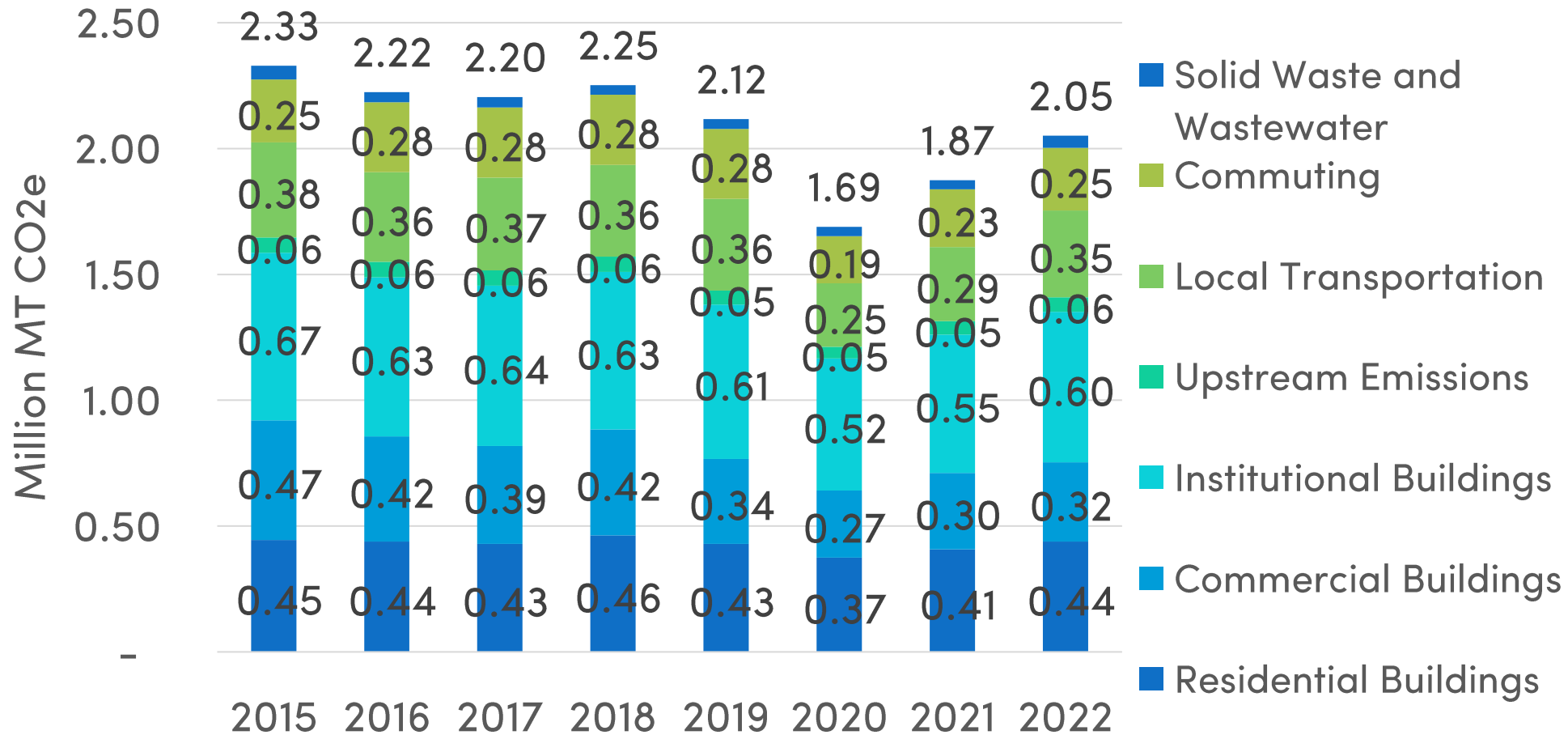
Changes in Emissions: 2000 to 2019



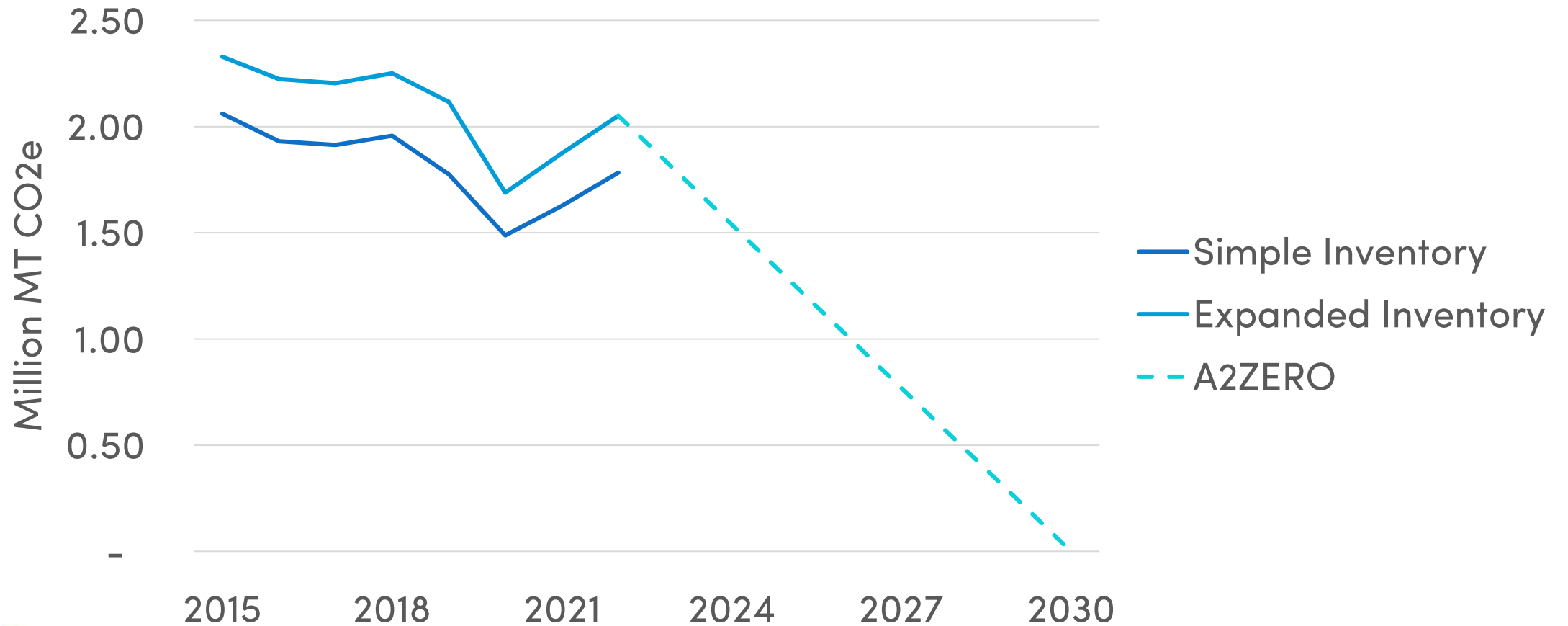
Simple vs. Expanded Inventory

| Emission Source | Simple Inventory | Expanded Inventory |
|-----------------------------------------------|------------------|--------------------|
| Electricity used in buildings | • | • |
| Transmission and distribution losses | • | • |
| Natural gas used in buildings | • | • |
| Local fugitive natural gas leaks | | • |
| Additional stationary energy emission sources | | • |
| Local passenger and commercial vehicles | • | • |
| Commuting passenger vehicles | | • |
| Rail and aviation | | • |
| Generated solid waste | • | • |
| Additional solid waste emission sources | | • |
| Wastewater processing | | • |

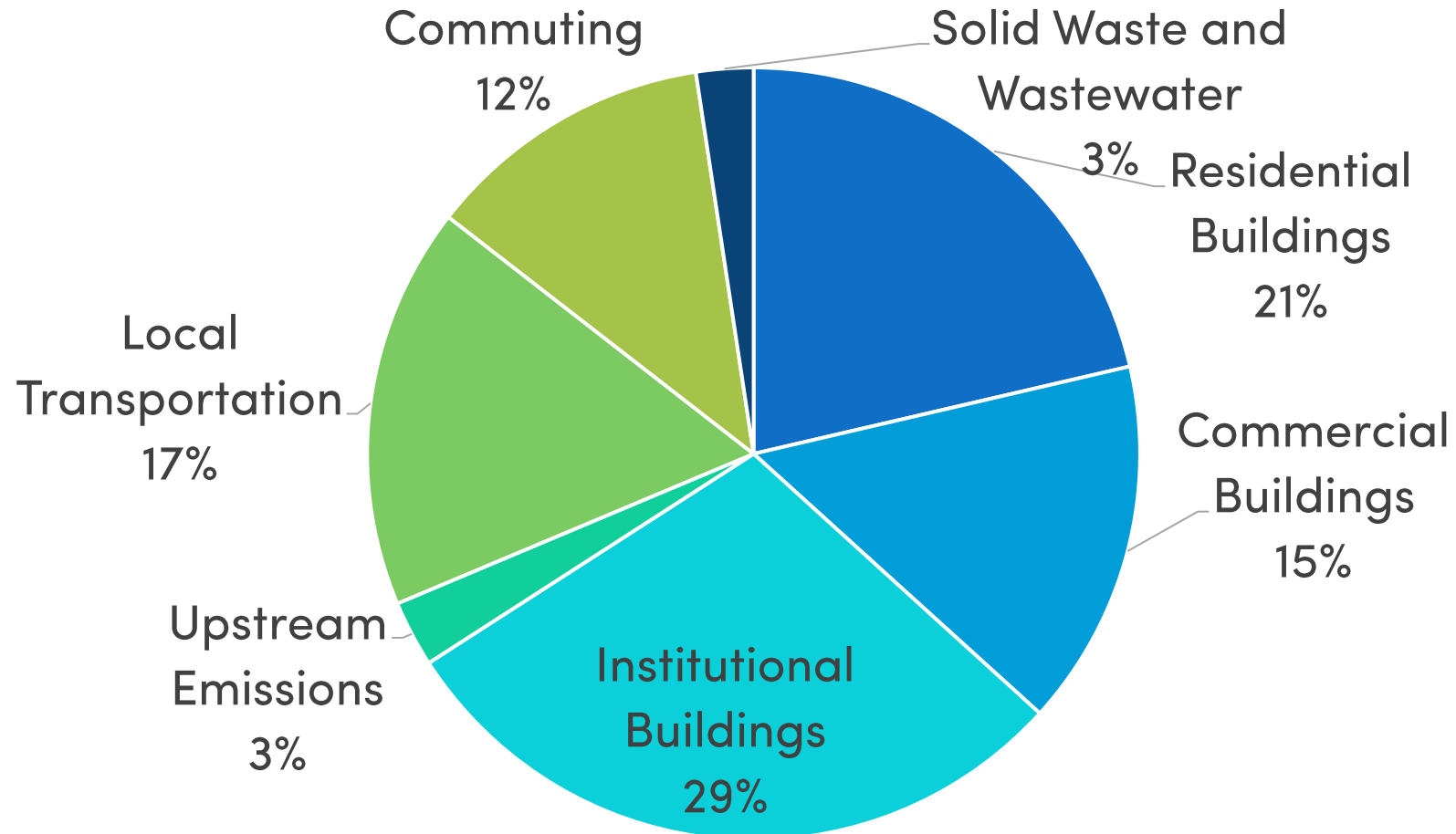
Expanded Inventory Emissions



Expanded Inventory Emissions



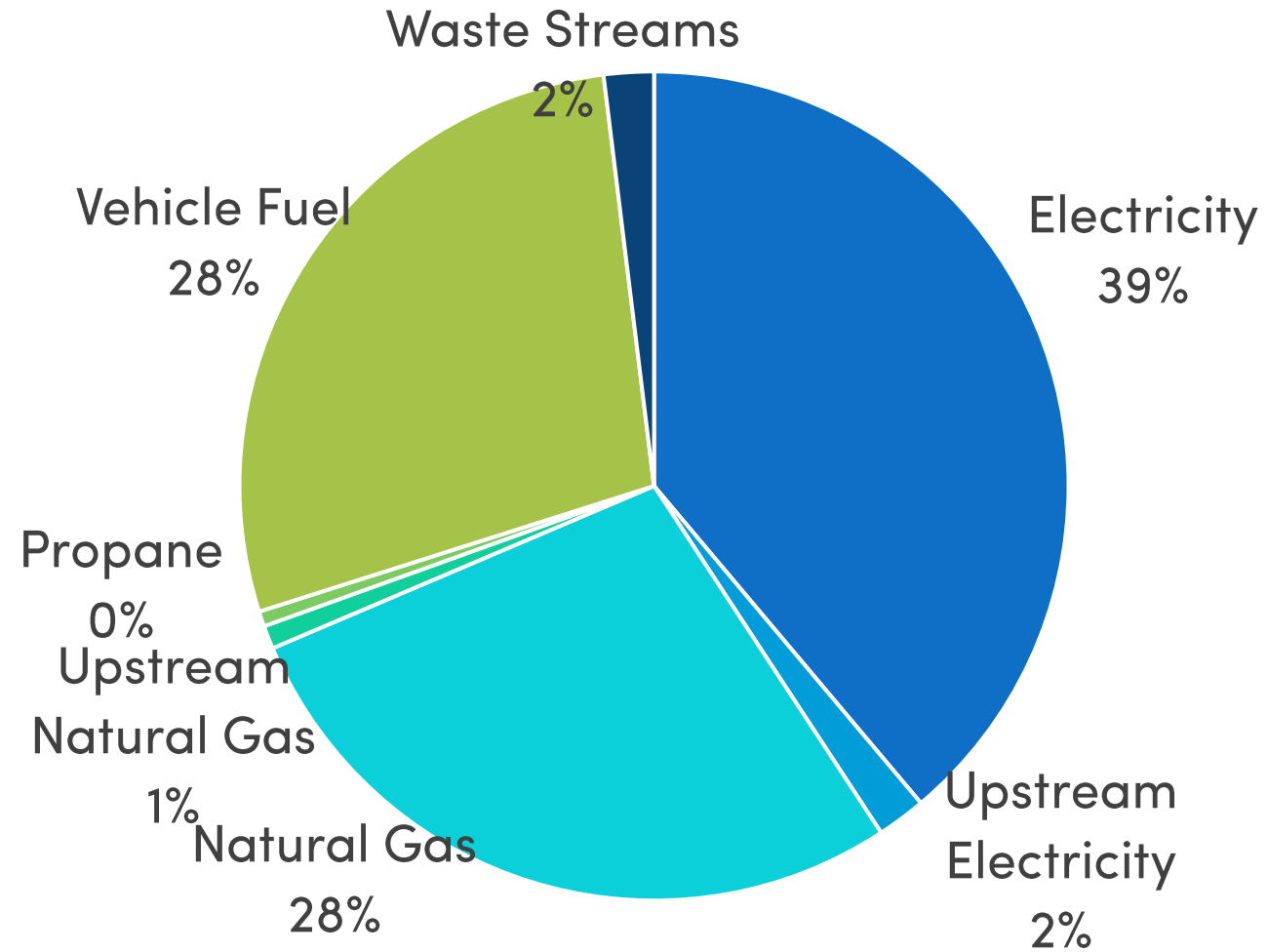
2022 Greenhouse Gas Inventory



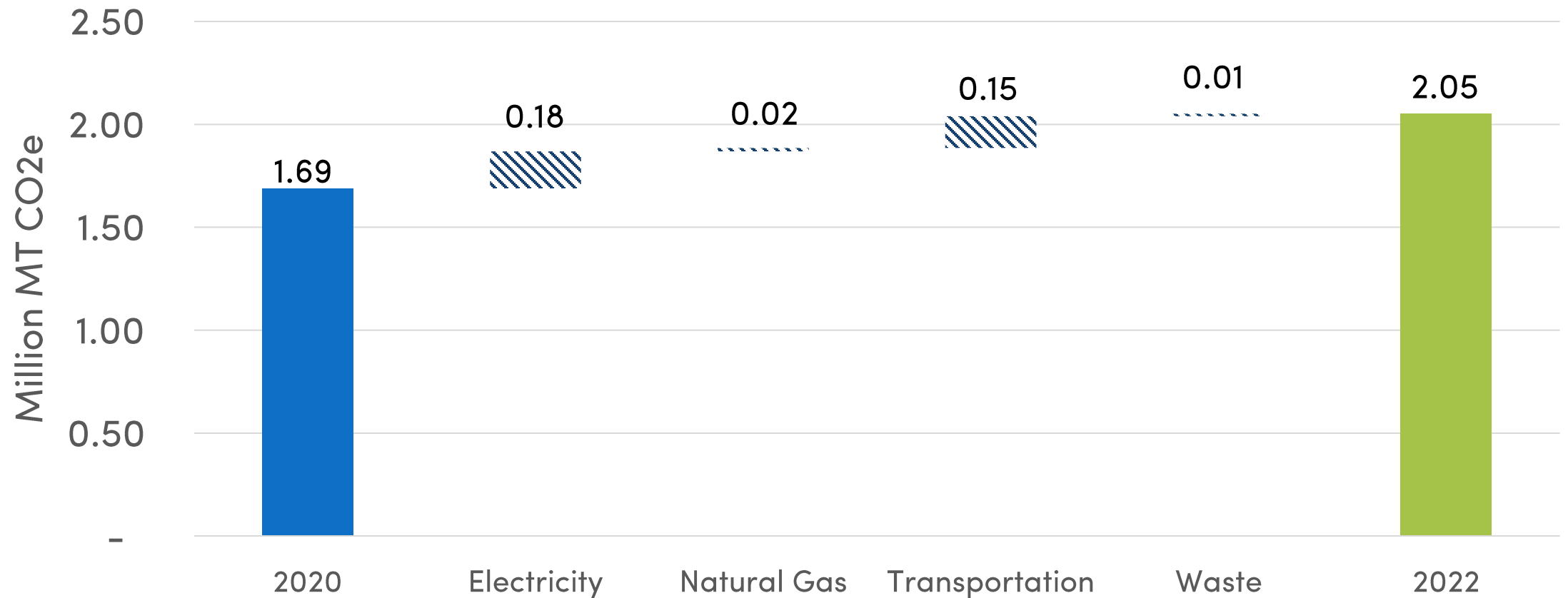
2022 Sources of Emissions



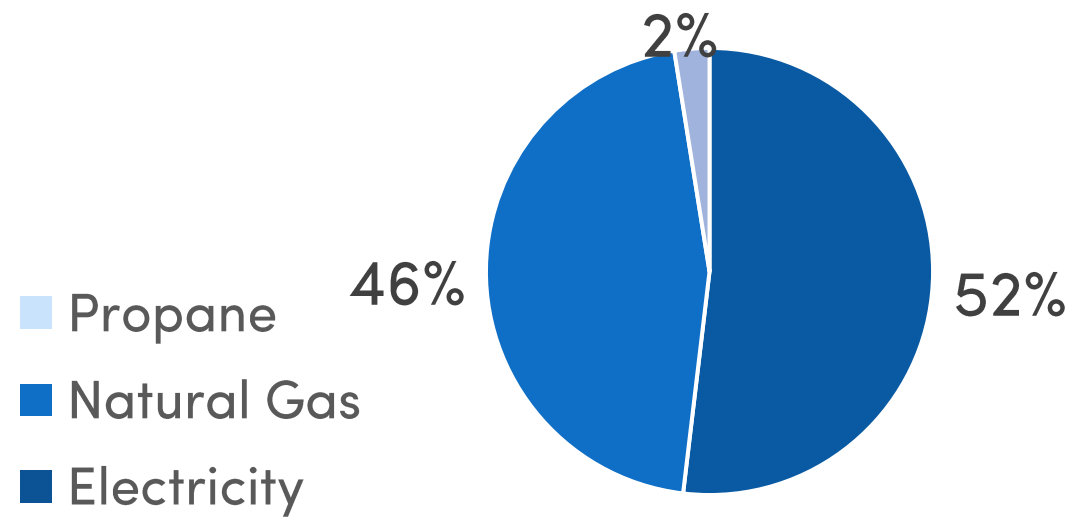
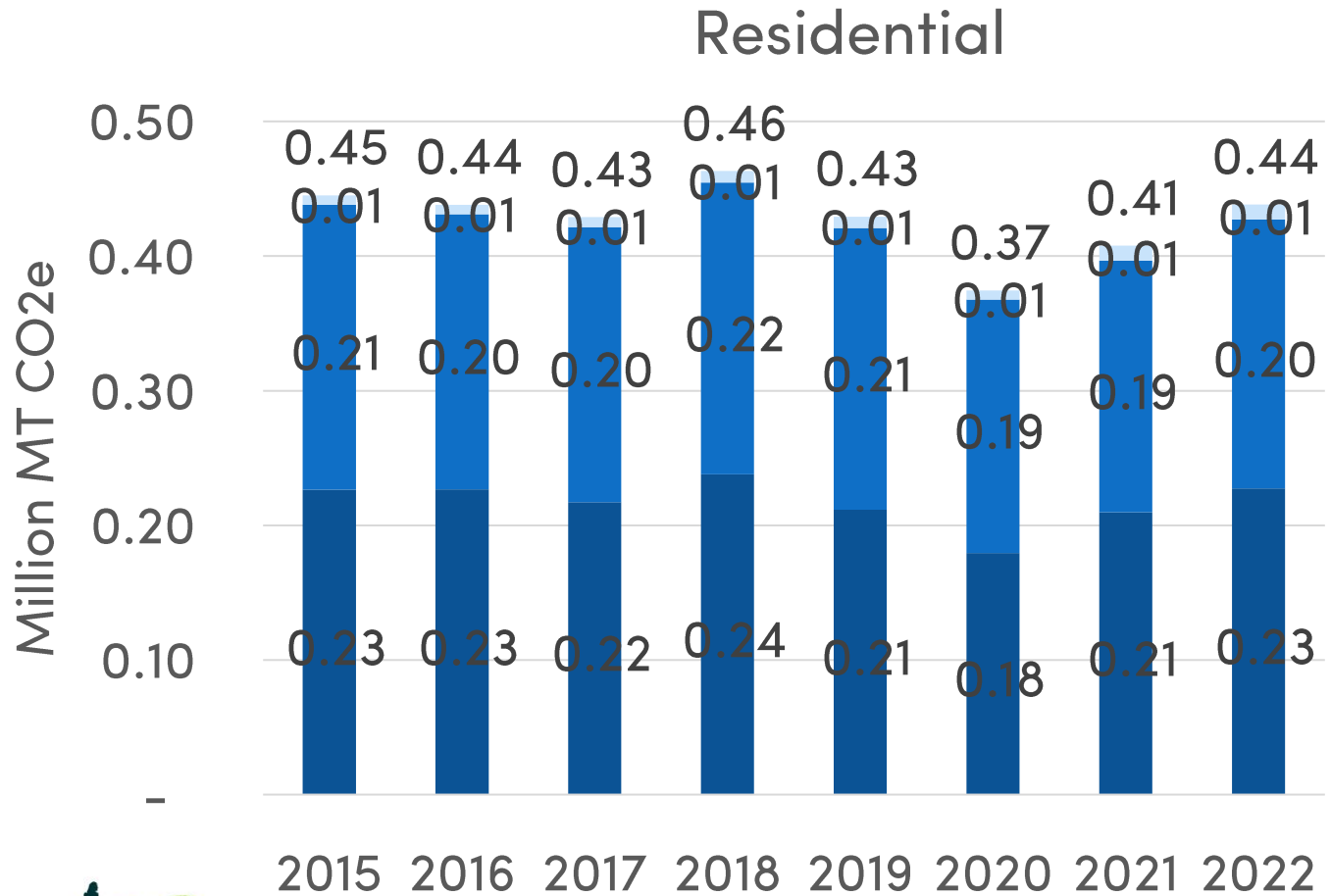
2022 Sources of Emissions



2020 to 2022 Emissions

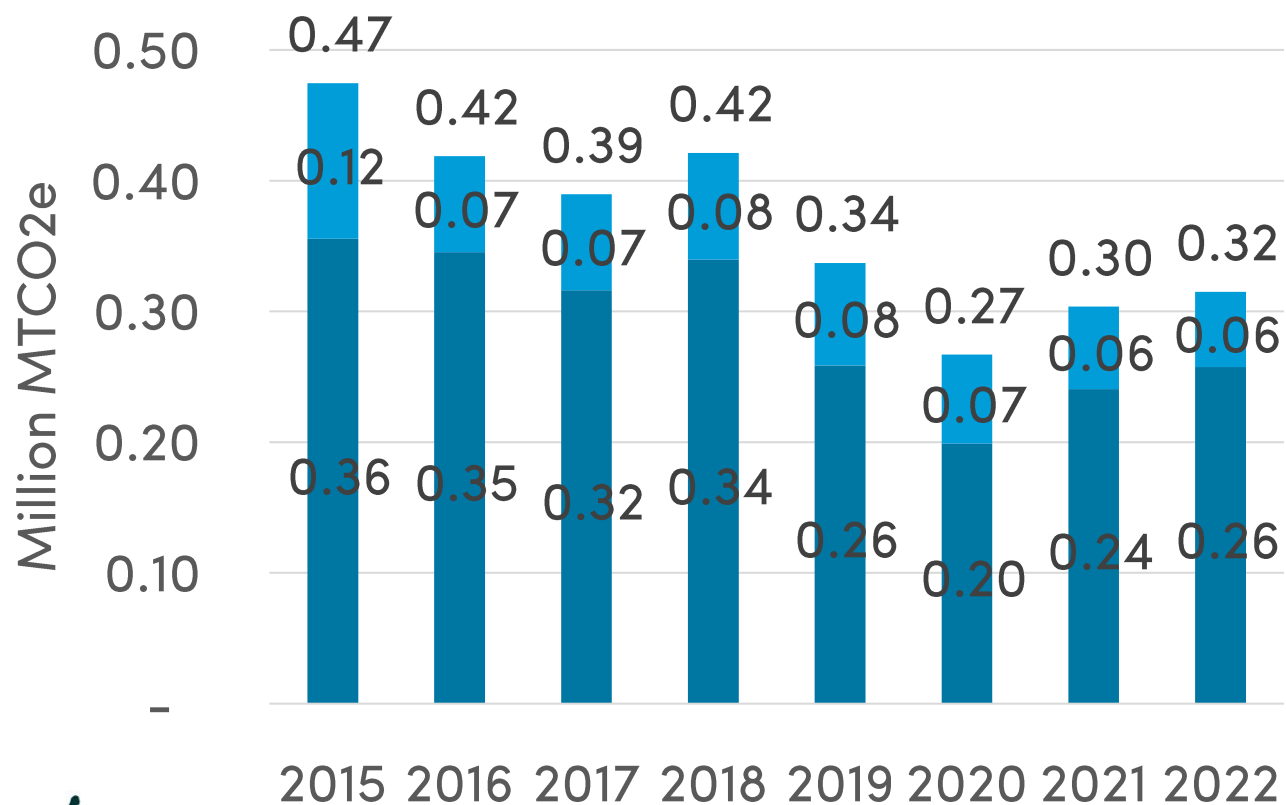


Emissions from Buildings

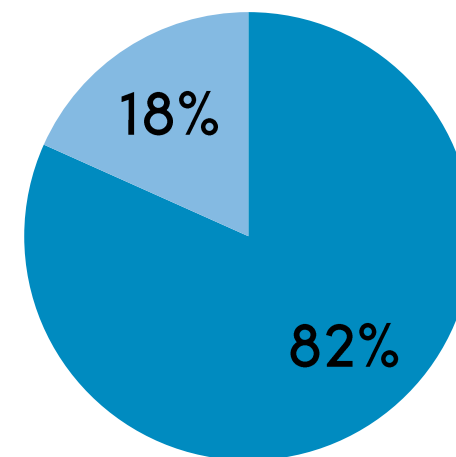


Emissions from Buildings

Commercial and Industrial

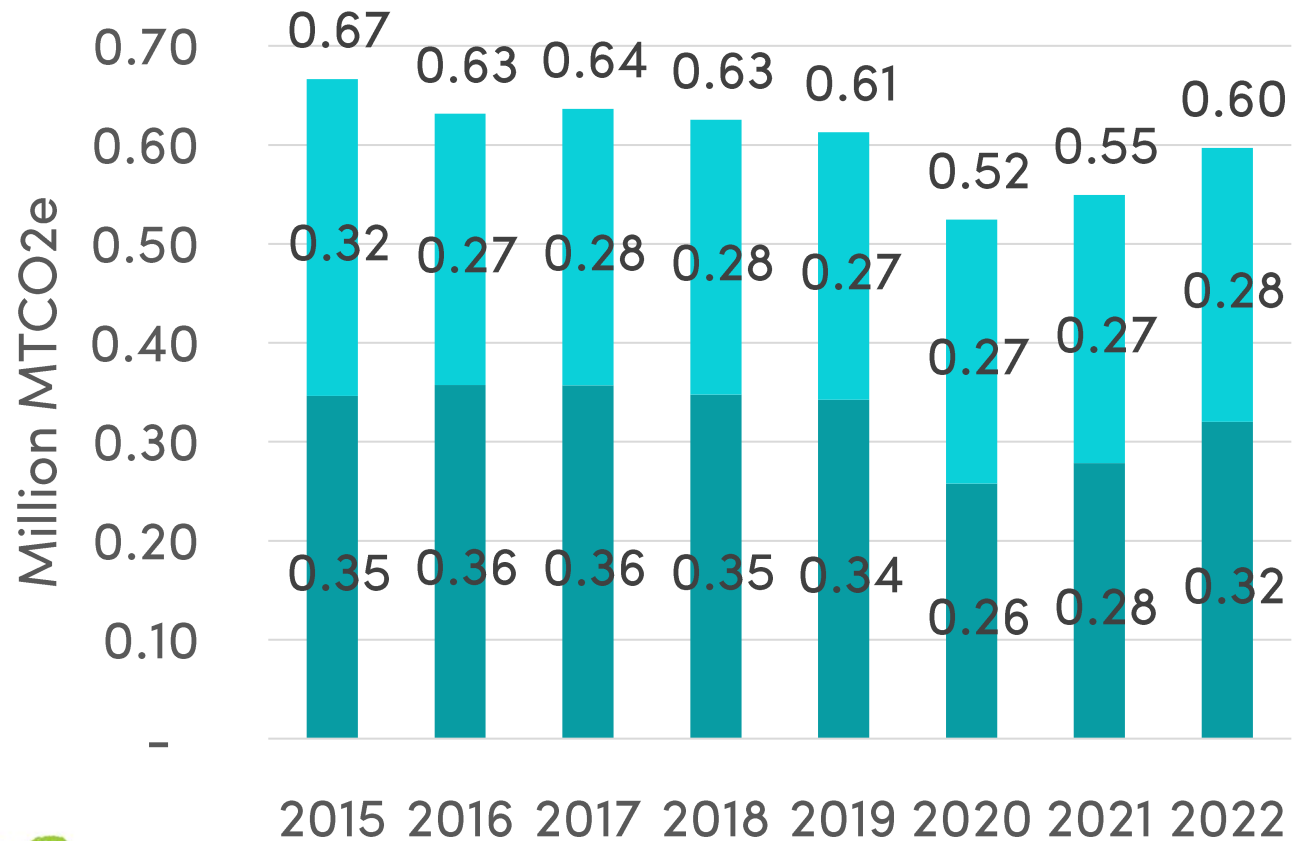


■ Natural Gas
■ Electricity

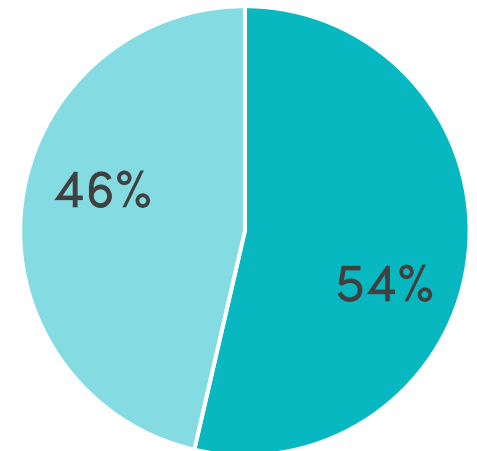


Emissions from Buildings

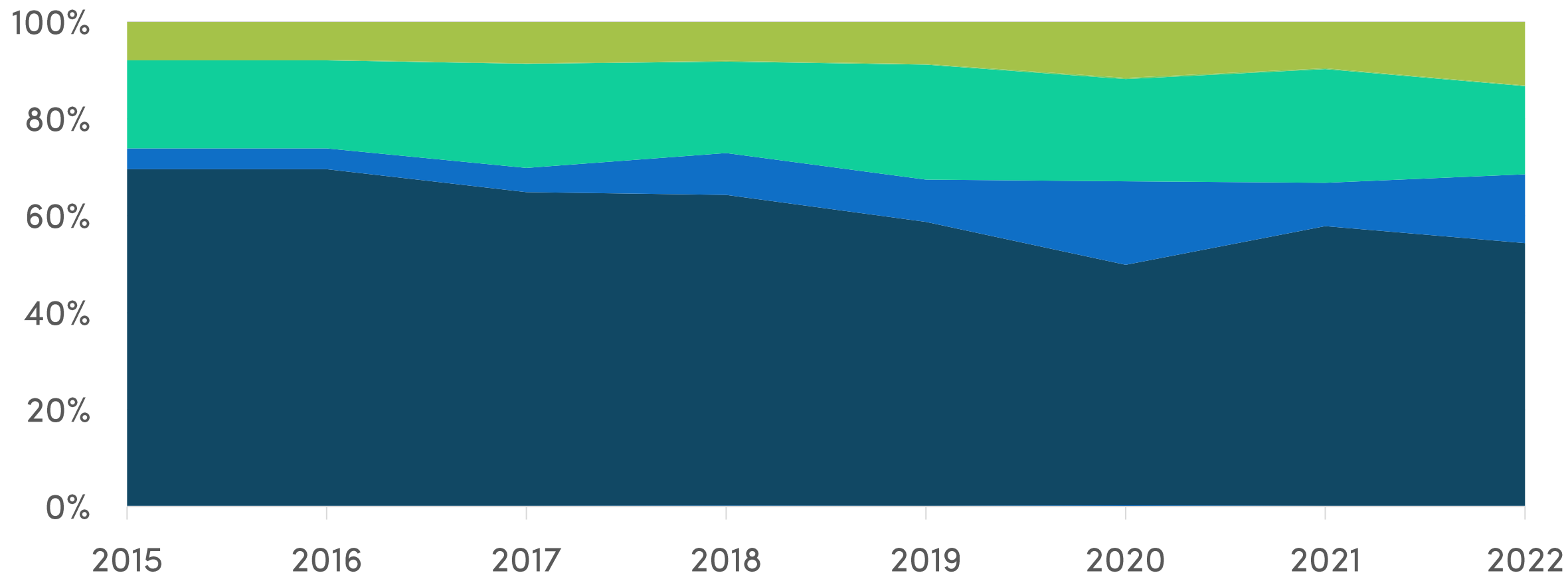
University of Michigan



■ Natural Gas
■ Electricity

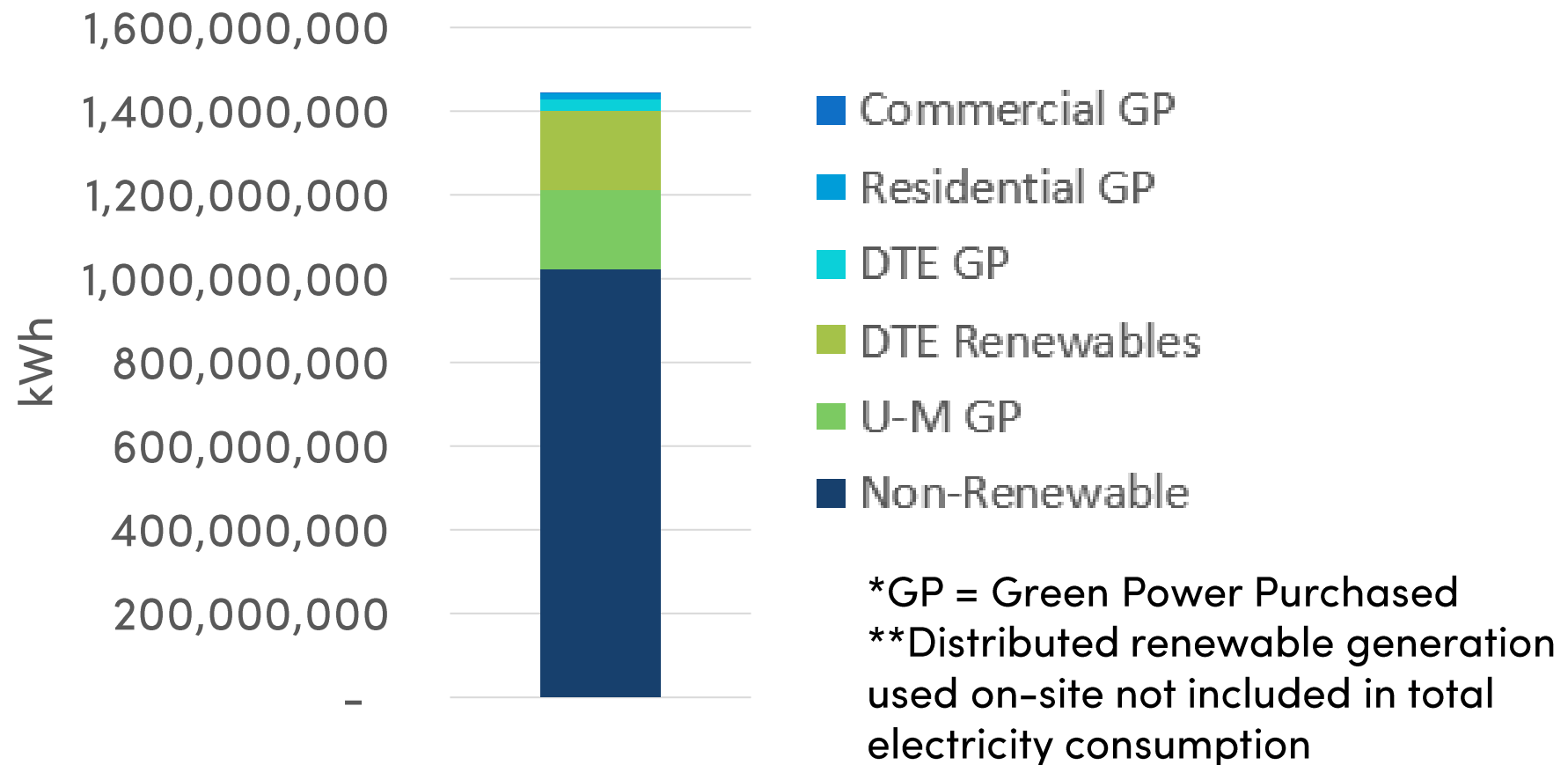


DTE Electric Fuel Mix

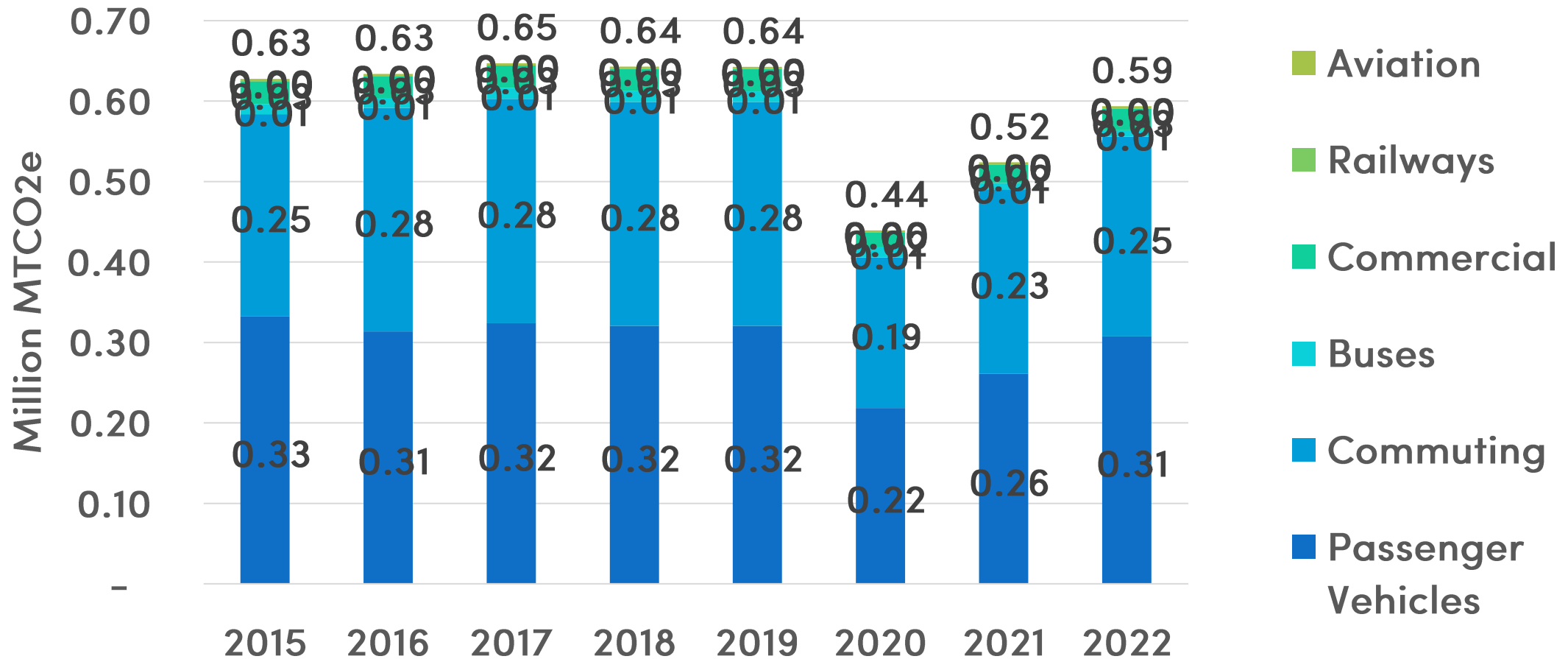


Oil Coal Natural Gas Nuclear Hydro Renewables

Renewable Energy Portfolio

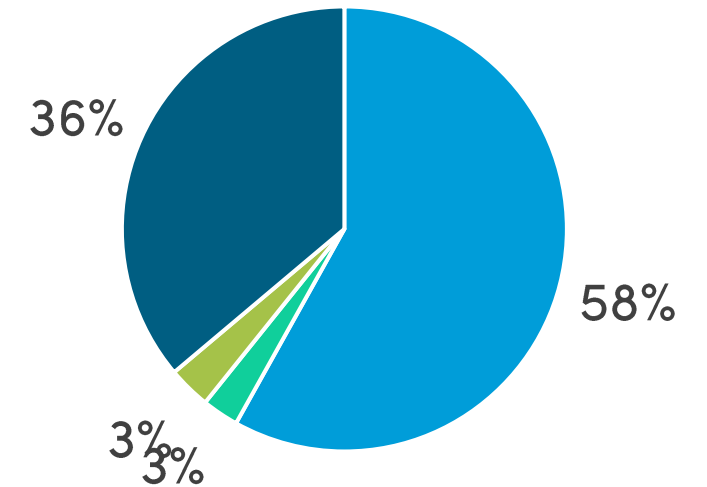
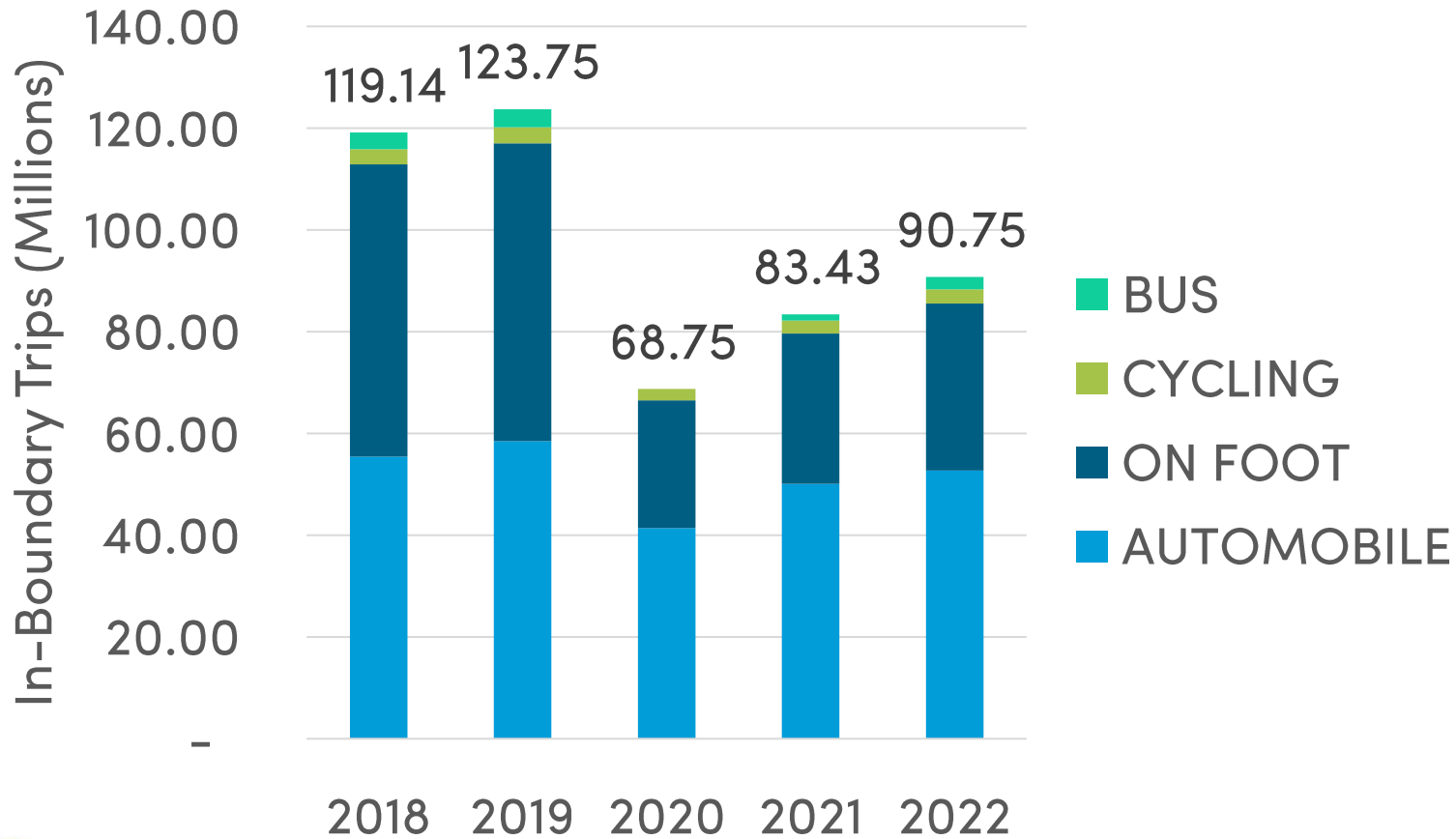


Emissions from Transportation

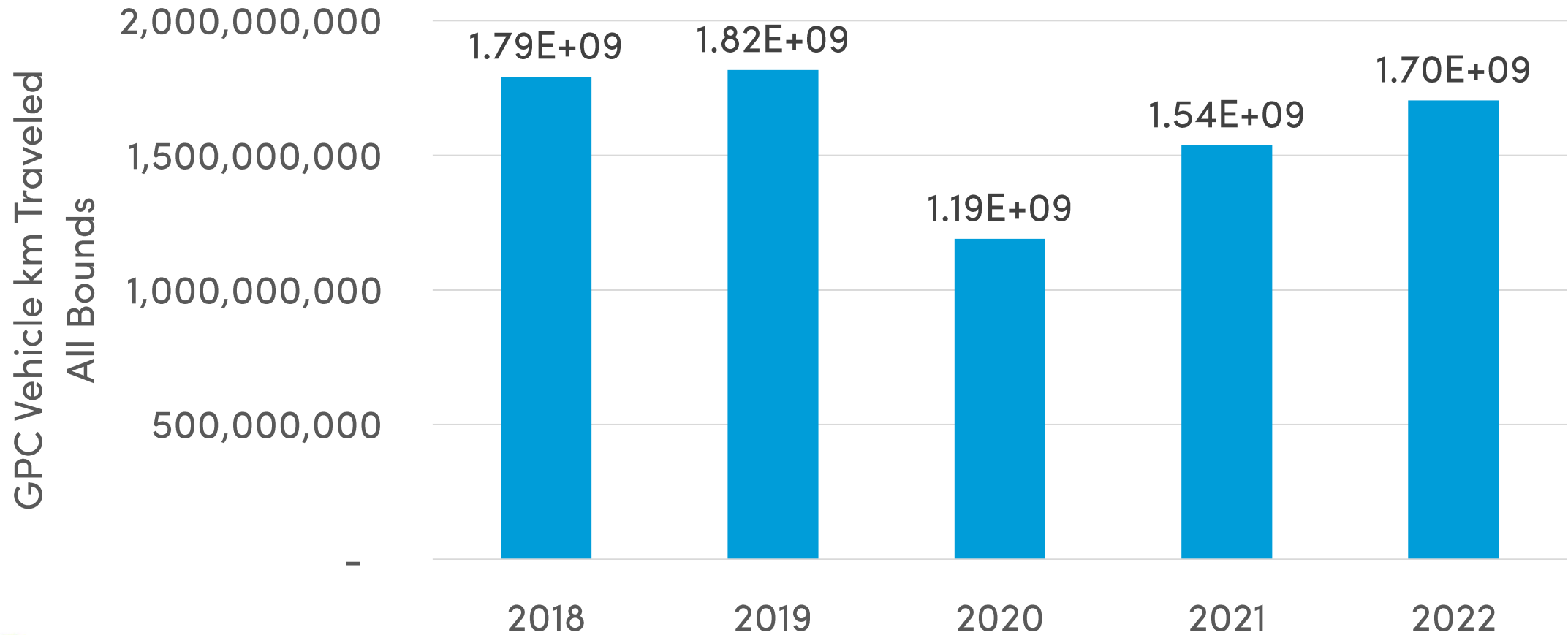


*Commuting Patterns only includes portion of commute outside of Ann Arbor boundary

Transportation Mode Split - Trips



Automotive Distance Traveled



Performance Measures



[Home](#) » [Departments](#) » [City Administrators Office](#) » Performance Measures

City Administrators Office

Feature Presentations

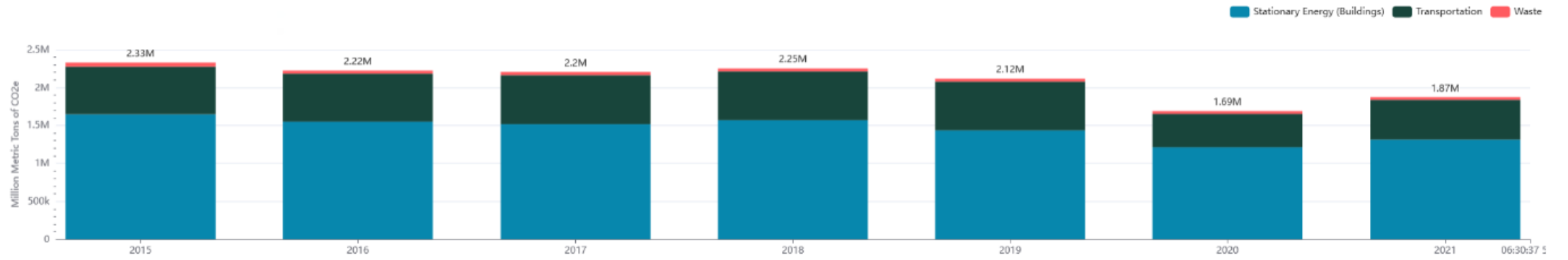
Performance Measures

Unarmed Crisis Response Program

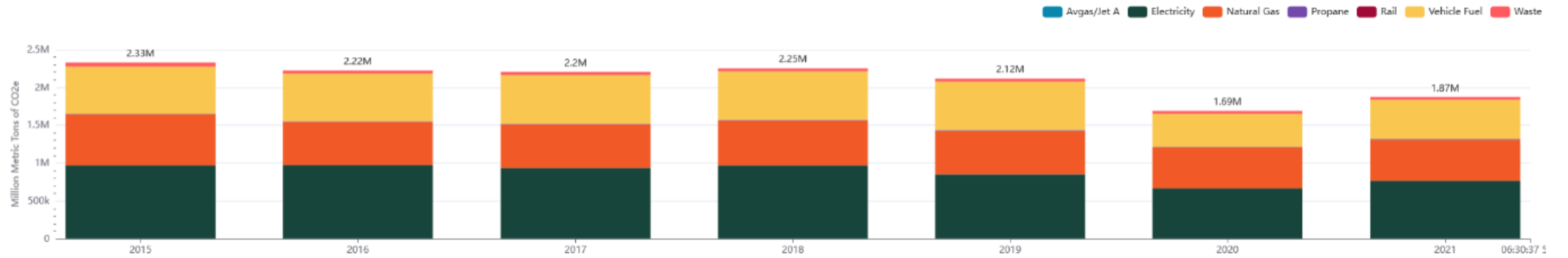
Office of Sustainability and Innovations

To track progress toward the city's A2Zero goals, visit [OSI's Performance Metrics Dashboard](#).

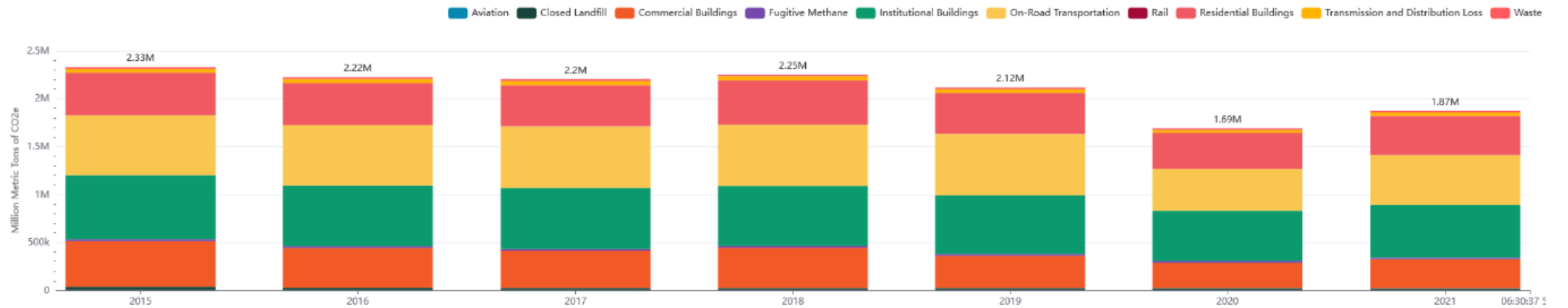
Community Greenhouse Gas Inventory - Sector



Community Greenhouse Gas Inventory - Source



Community Greenhouse Gas Inventory - Subsector



Questions

For more information please visit A2ZERO.org

Thea Yagerlener: tyagerlener@a2gov.org

Community Greenhouse Gas Inventory



Recordings of Presentations

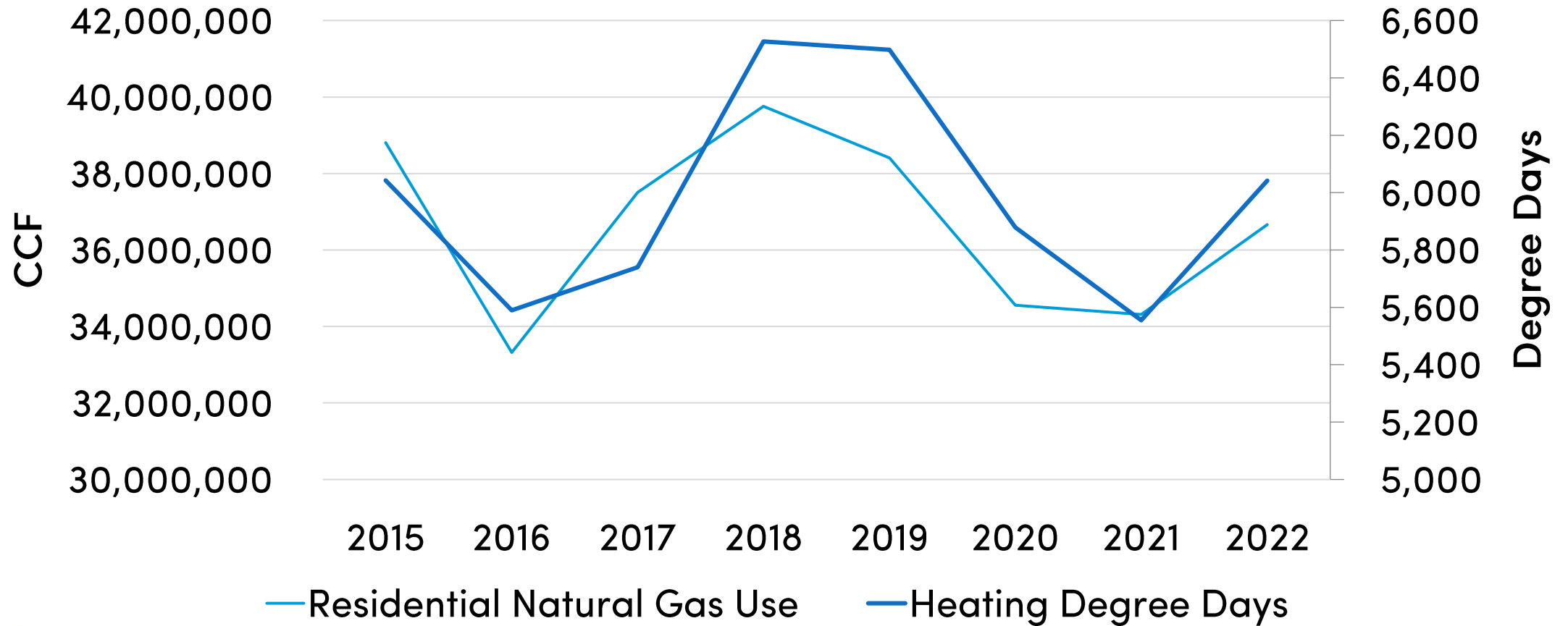
Annual Reports

Guide of Methodology Used

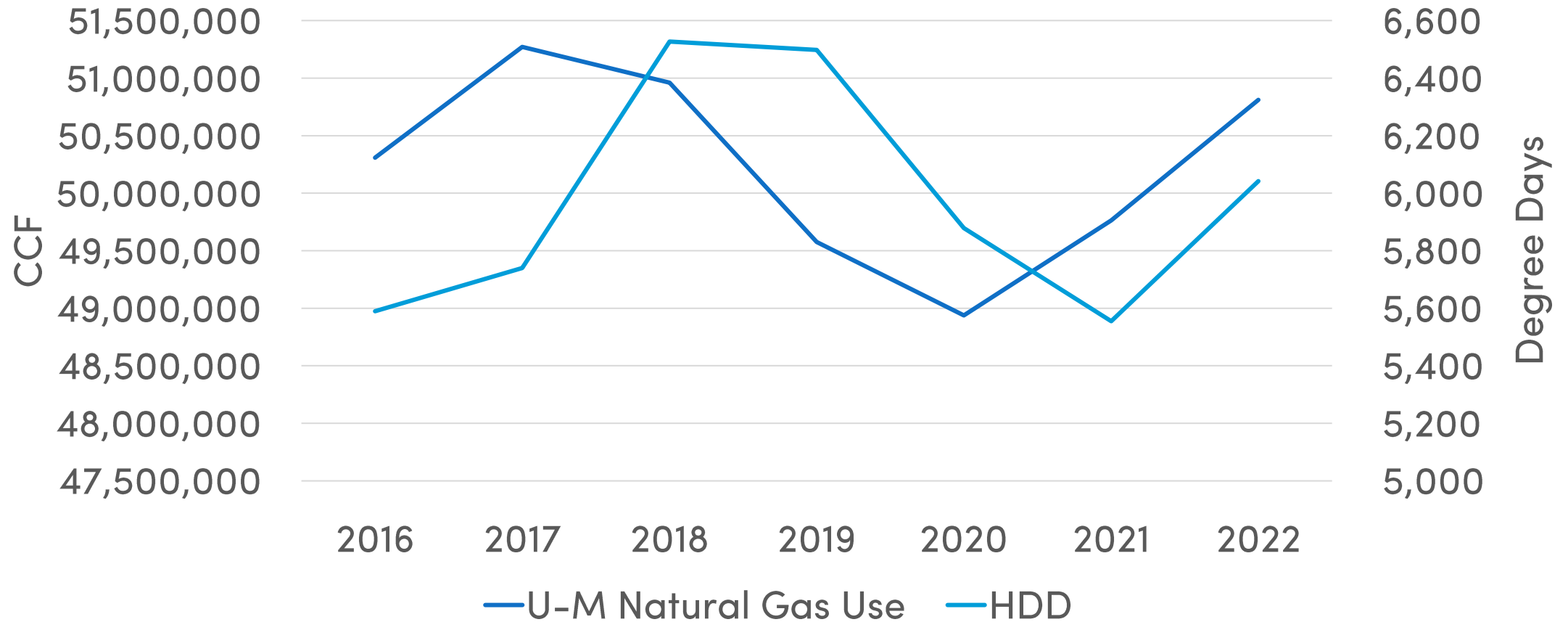
Spreadsheets of Data

Back Up Slides

Heating Degree Days



Heating Degree Days



Cooling Degree Days

