



City of Ann Arbor 2024 GHG Inventory

**Carissa Ebling, Energy Coordinator
City of Ann Arbor Office of
Sustainability and Innovations**

What is a GHG Inventory?



A community-wide greenhouse gas (GHG) inventory quantifies a community's greenhouse gas emissions and their associated sources

Emission Sectors

- Institutional buildings
- Residential buildings
- Commercial buildings
- Local transportation
- Commuting
- Solid waste
- Wastewater

What is a GHG Inventory?



Ann Arbor's GHG Inventory:

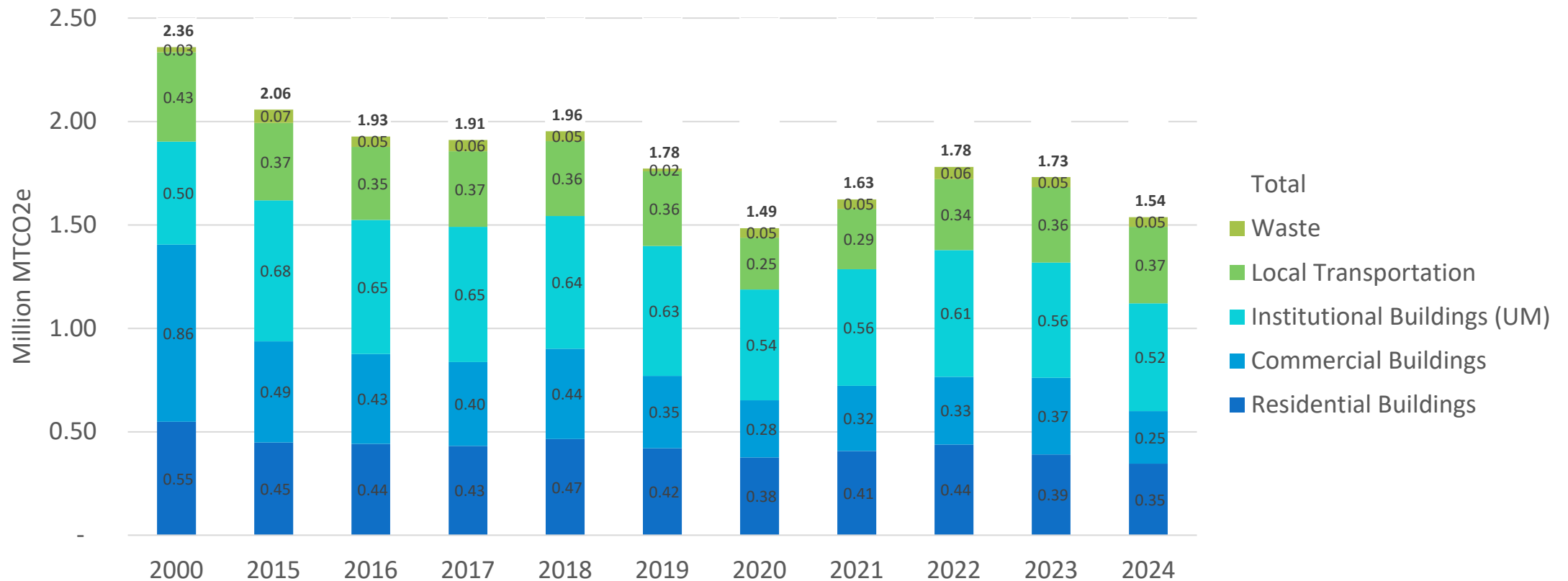
- Estimated annually
- Based on aggregated, scaled, and modeled data
- Calculated using the ICLEI US Community GHG Protocol
- Measures emissions from the following GHGs:
 - CO₂
 - N₂O - 28x more potent than CO₂
 - CH₄ - 265x more potent than CO₂

Simple vs Expanded Inventory

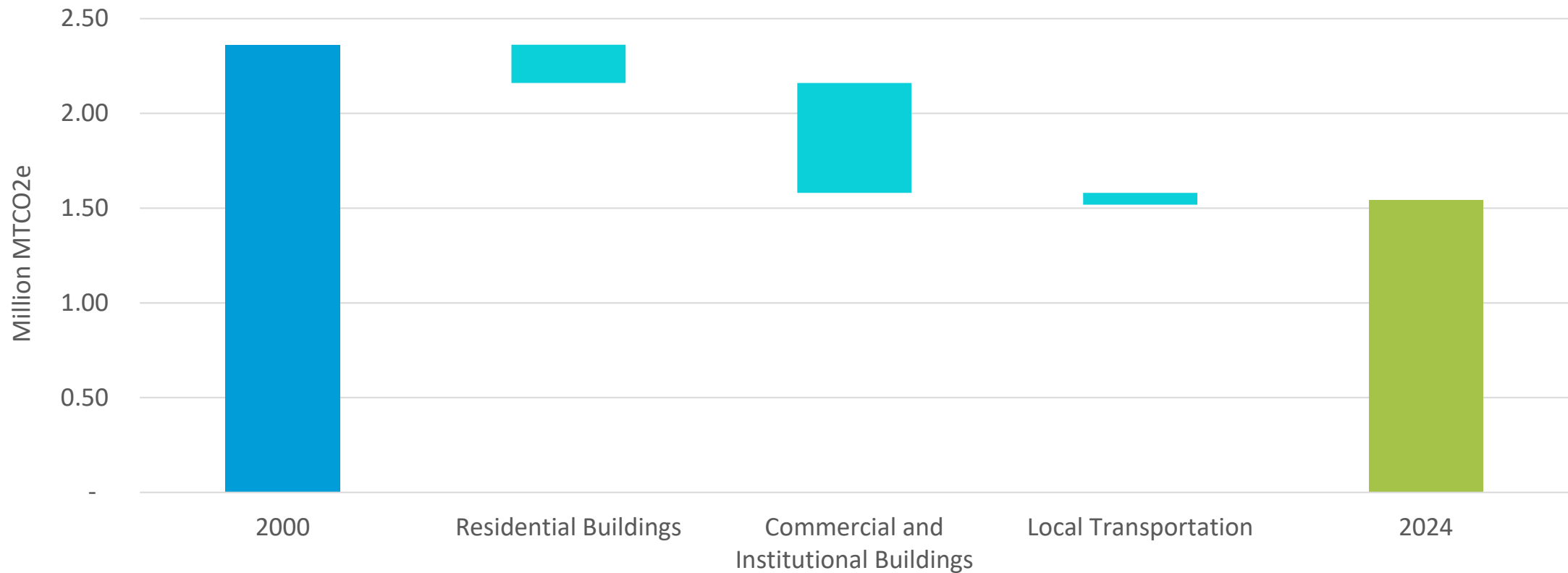


Emissions Source	Simple Inventory	Expanded Inventory
Electricity used in buildings	X	X
Natural gas used in buildings	X	X
Transmission and distribution losses	X	X
Local fugitive natural gas leaks		X
Additional stationary energy emission sources		X
Local passenger and commercial vehicles	X	X
Commuting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

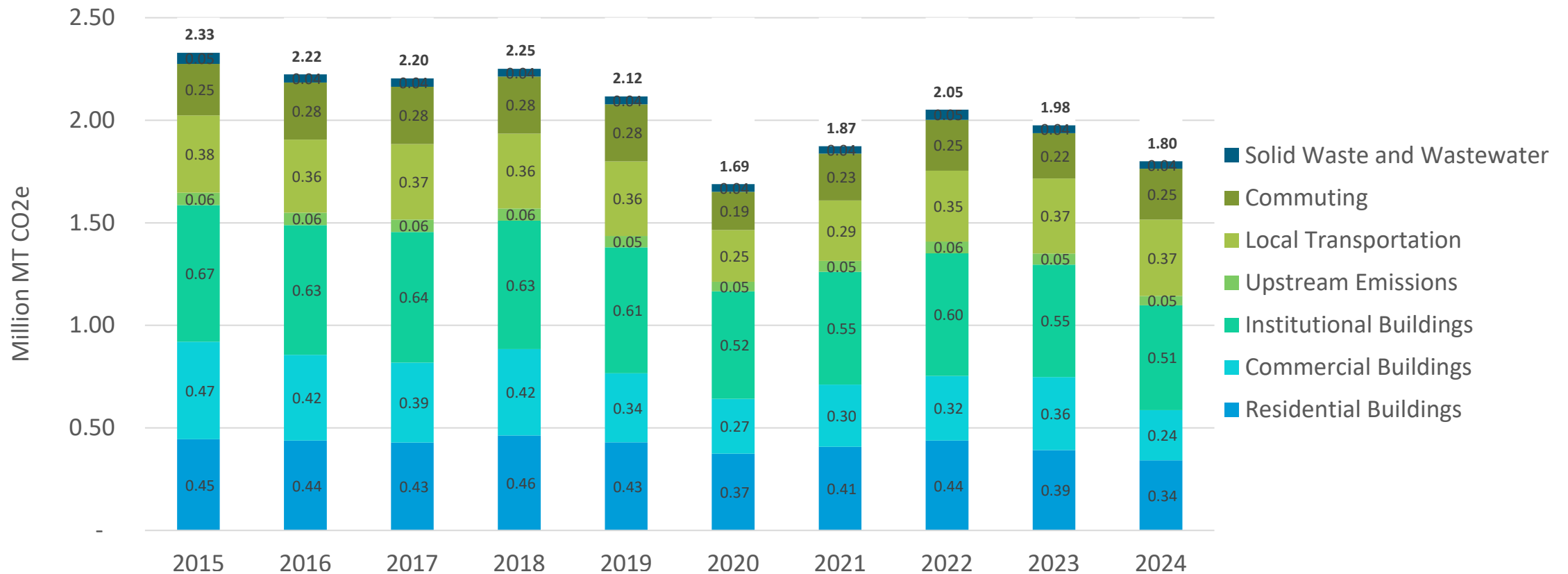
Simple Inventory Trends



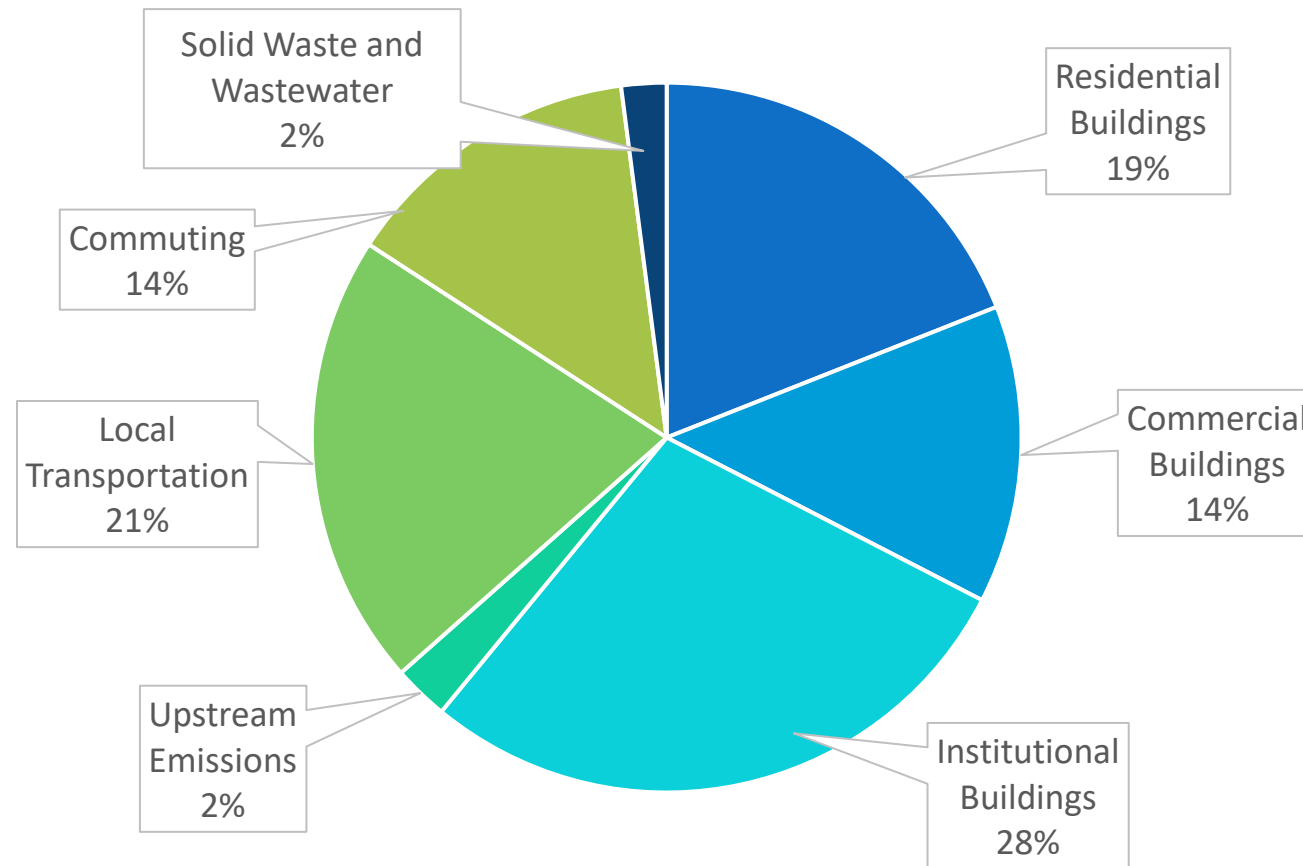
Changes in Emissions from 2000 to 2024



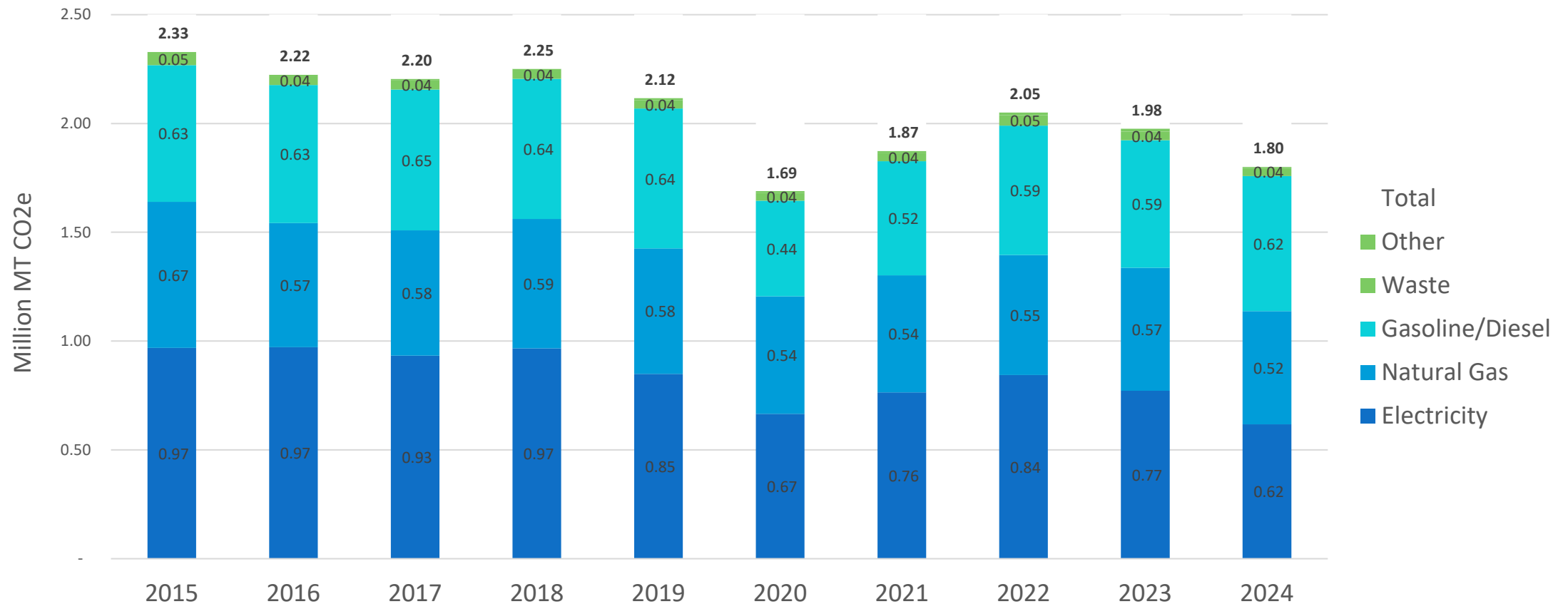
Expanded Inventory Trends



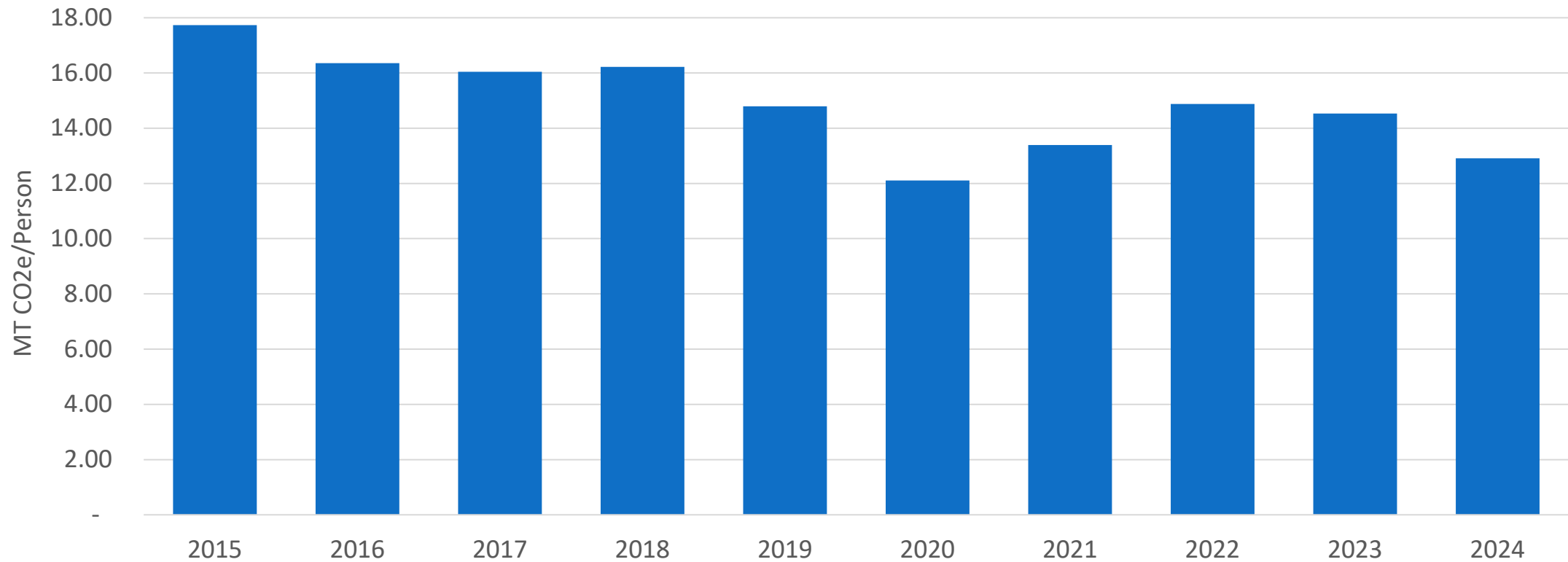
2024 Greenhouse Gas Emissions by Sector



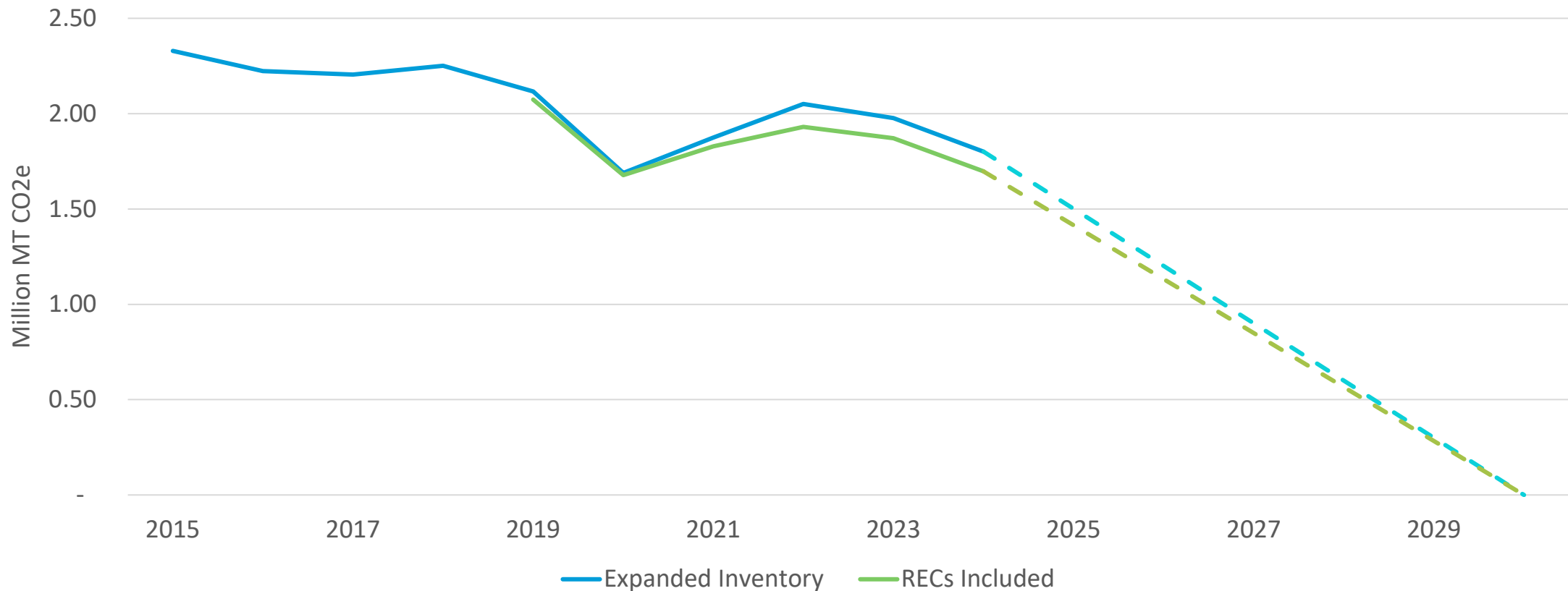
2024 Greenhouse Gas Emissions by Source



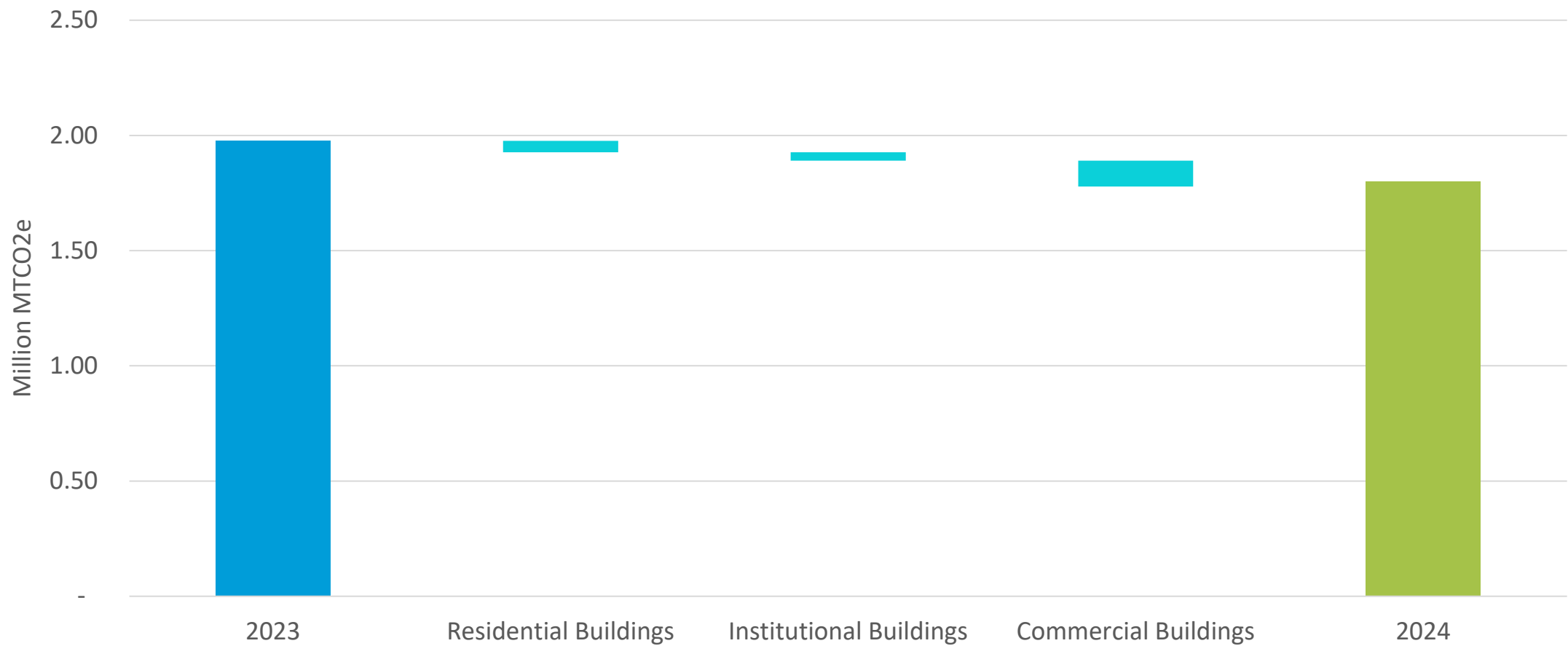
Emissions Per Capita



Emissions Goals



2023 to 2024 Change

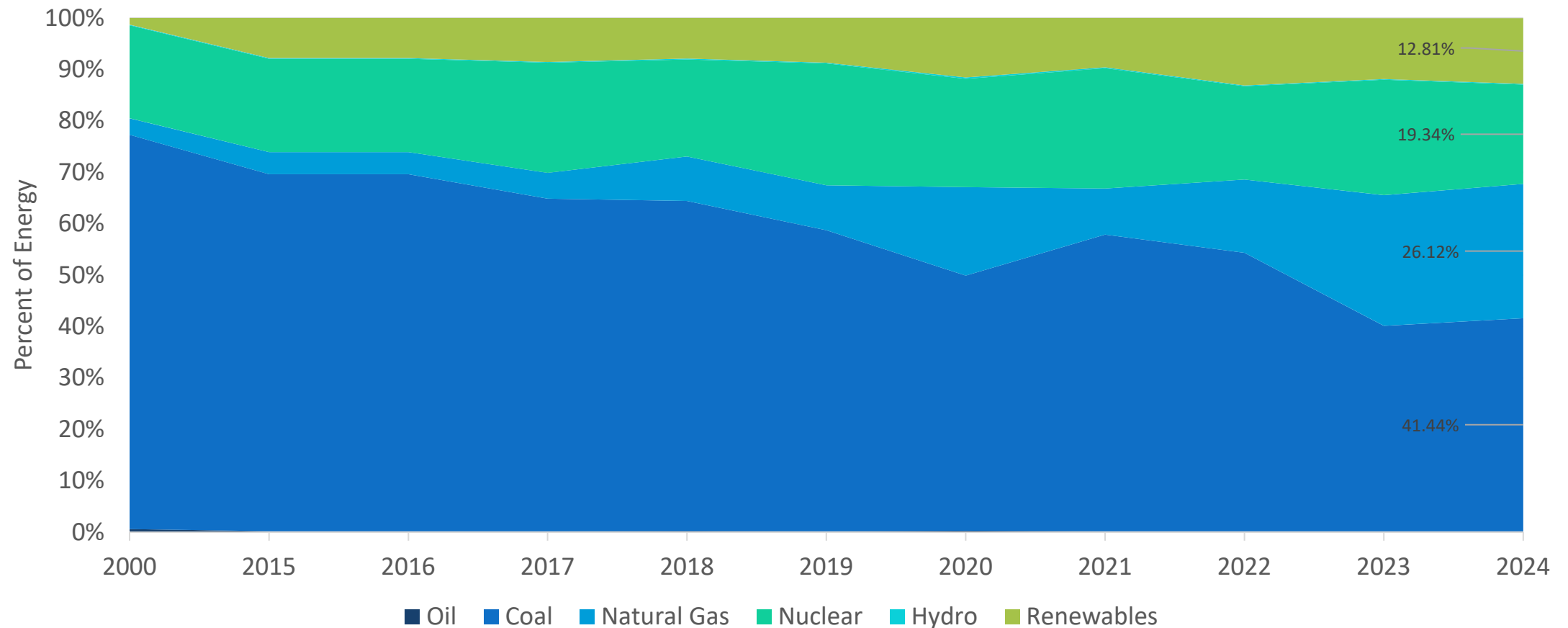


Behind the Data

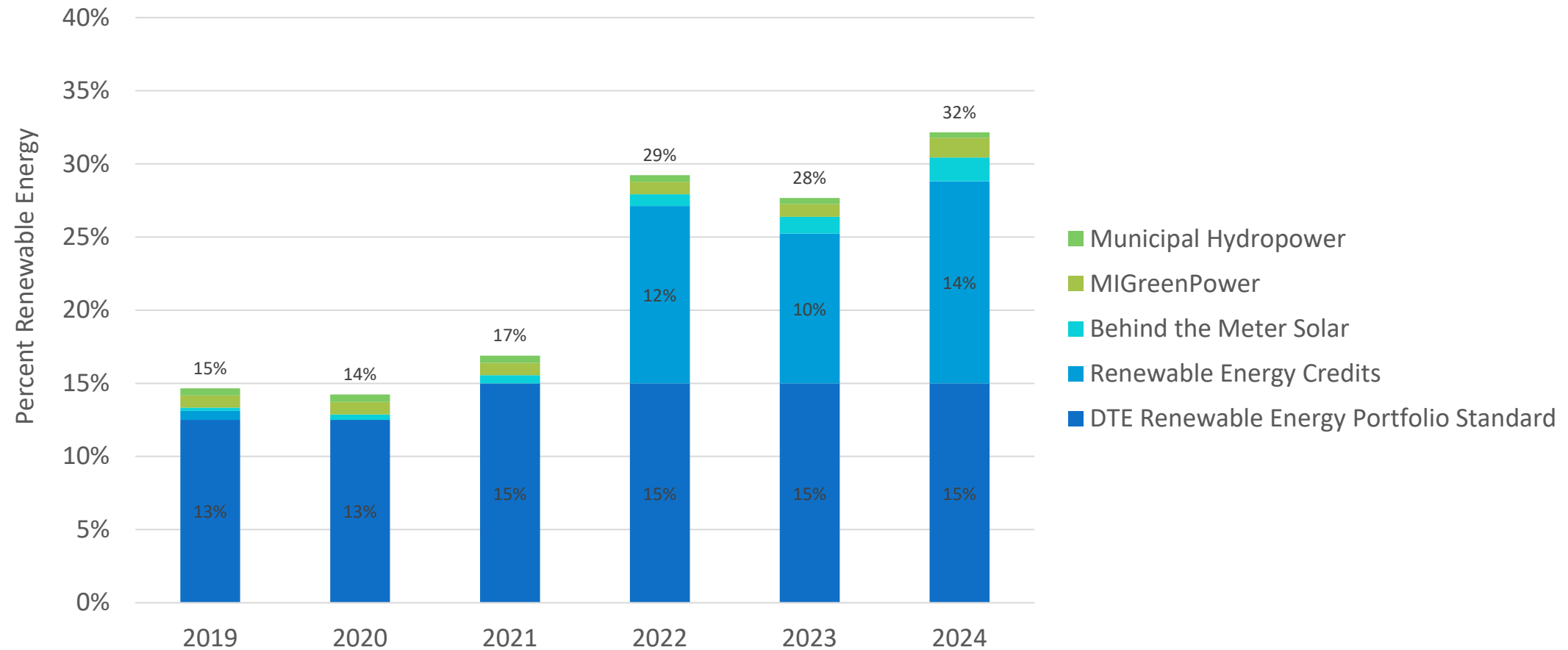


- **Commercial programs and incentives**
- **Residential programs and incentives**
- **Renewable energy is increasing**
- **UM sustainability efforts**
- **Many programs still in their early stages**
- **Important note on data availability**

DTE Fuel Mix



Renewable Energy Portfolio



OSI Metrics Dashboard



- Shows progress towards A²ZERO goals
- Updated regularly as data becomes available
- Link to dashboard:
 - <https://analytics.a2gov.org/superset/dashboard/osi-performance-metrics/?standalone=2>



THANK YOU

cebling@a2gov.org