

State of the Climate – Greenhouse Gas Inventory

April 9, 2021

Joyce Losick-Yang, Anthony Collins, Jacqueline Salit, Kate Margoese and Candy Dann



Why Inventory Greenhouse Gas Emissions

- Bring science-based data to our Climate Action Plan
- Identify right approaches
- Set priorities
- Track and show progress over time



Tool and Baseline Year

- Chose the **MAPC GHG Inventory Tool**
 - Simple spreadsheet-based tool and excellent guide
 - Links directly to MA datasets
 - Free to initiate and maintain
 - Tracks impacts of municipal aggregation programs

- Chose **2017** as Baseline Year
 - Same baseline year as Arlington, Natick, and Melrose
 - Recent enough to compare future year inventories
 - Independent from gas incident
 - Independent from COVID-19 years



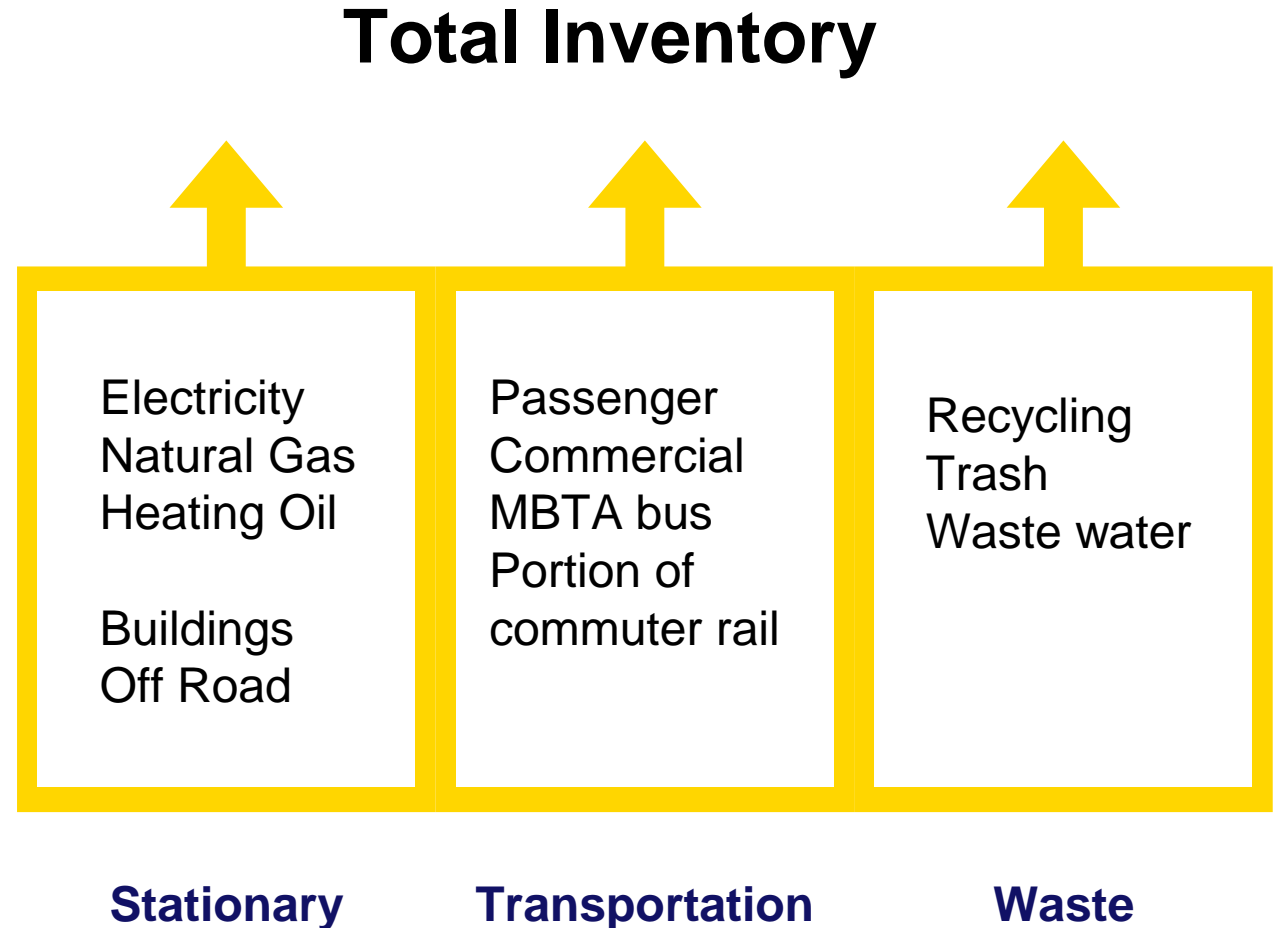
What's in the Inventory?

All **buildings** in Andover plus off road equipment

All **vehicles** registered in Andover plus portion of MBTA used in Andover

All waste and wastewater disposed BY Andover

Each section has a **residential** portion and a **commercial** portion



Andover's Baseline

IN 2017, OUR TOWN WAS RESPONSIBLE FOR EMITTING

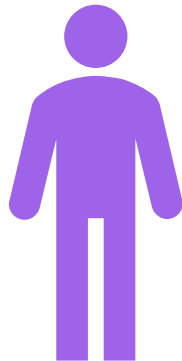
453,779

METRIC TONS OF CO₂e

IN ANDOVER, THAT WORKS OUT TO

12

METRIC TONS OF CO₂e PER RESIDENT



OUR EMISSIONS BREAKDOWN

STATIONARY EMISSIONS



WASTE EMISSIONS

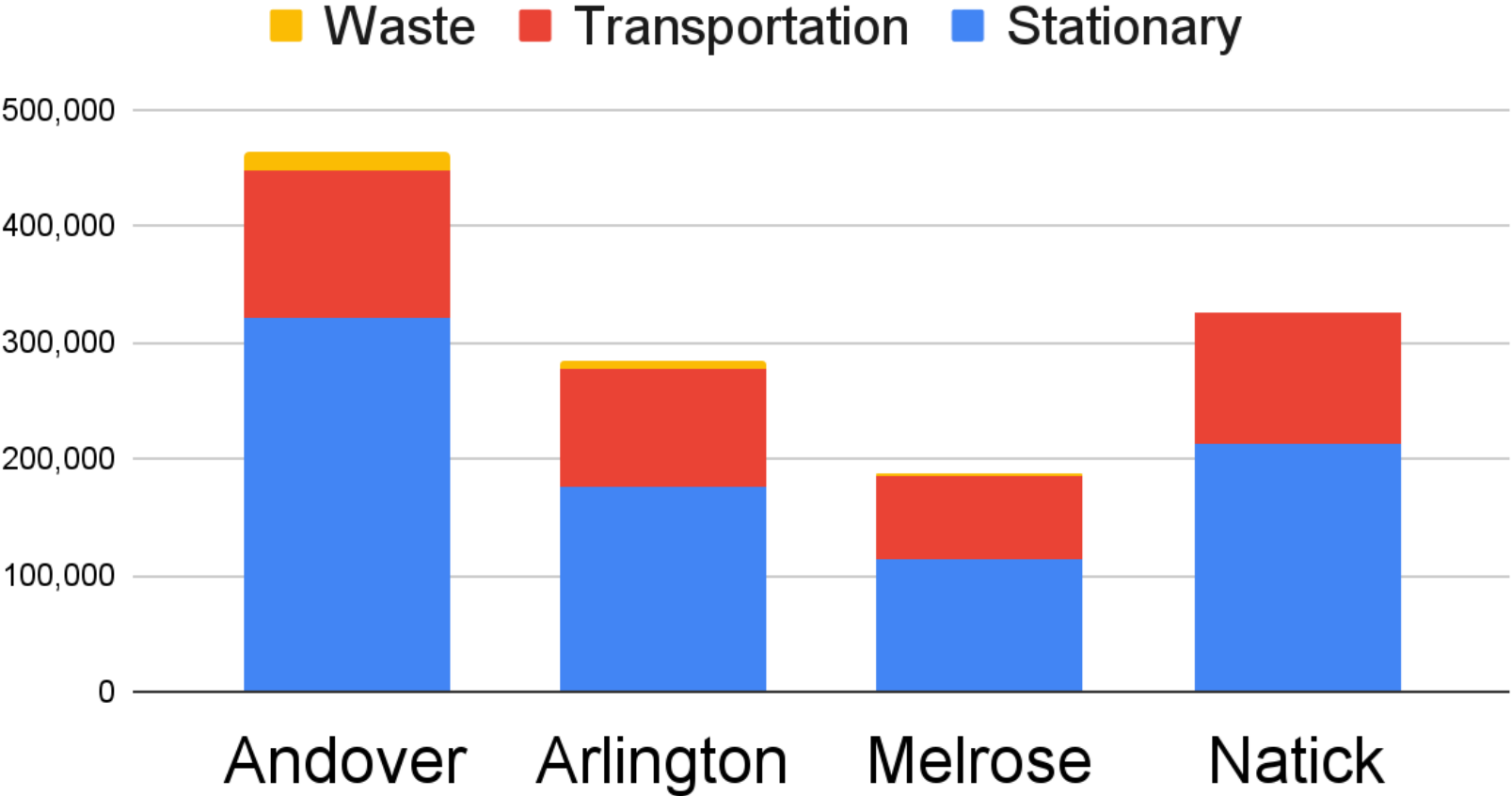


TRANSPORTATION EMISSIONS



Comparison to MAPC Towns

Town-to-town Comparison of Total Emissions (MT CO2e) by Sector

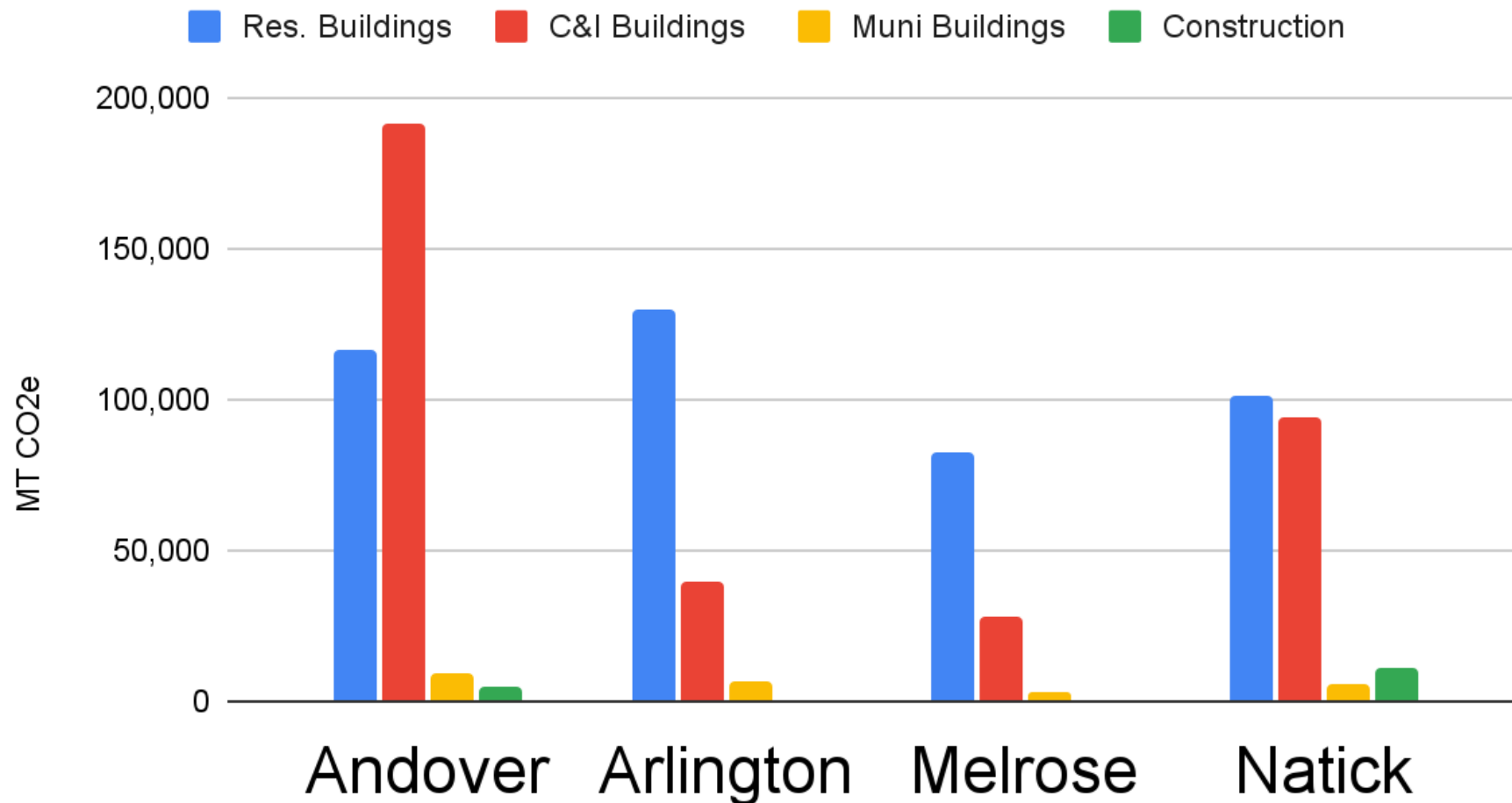


Town Population
July 1, 2019
Est U.S. Census

Andover: 36,356
Arlington: 45,304
Melrose: 28,106
Natick: 36,050

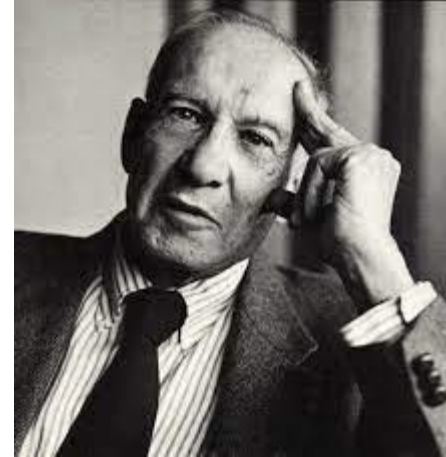
Andover's Higher CO₂e Stationary Emissions are Largely (not entirely) due to our Industry

Comparing Stationary CO₂e by Sector by Town



Next Steps

- Gather community input on priorities and goals, as well as resources and partnerships
- Conduct planning to map out multiyear initiatives with measurable goals, timelines, staffing and other allocations for funding
- Track progress over time



You can't improve what you don't measure.

-Peter Drucker