

City of Piedmont

Climate Action Plan 2.0 Implementation Update

2020 Greenhouse Gas Emission Inventory



Climate Action Plan 2.0

Greenhouse Gas Emissions Goals

Reduce in-territory greenhouse gas emissions:

- 40% below 2005 levels by 2030
- 80% below 2005 levels by 2050

Piedmont Climate Action Plan 2.0

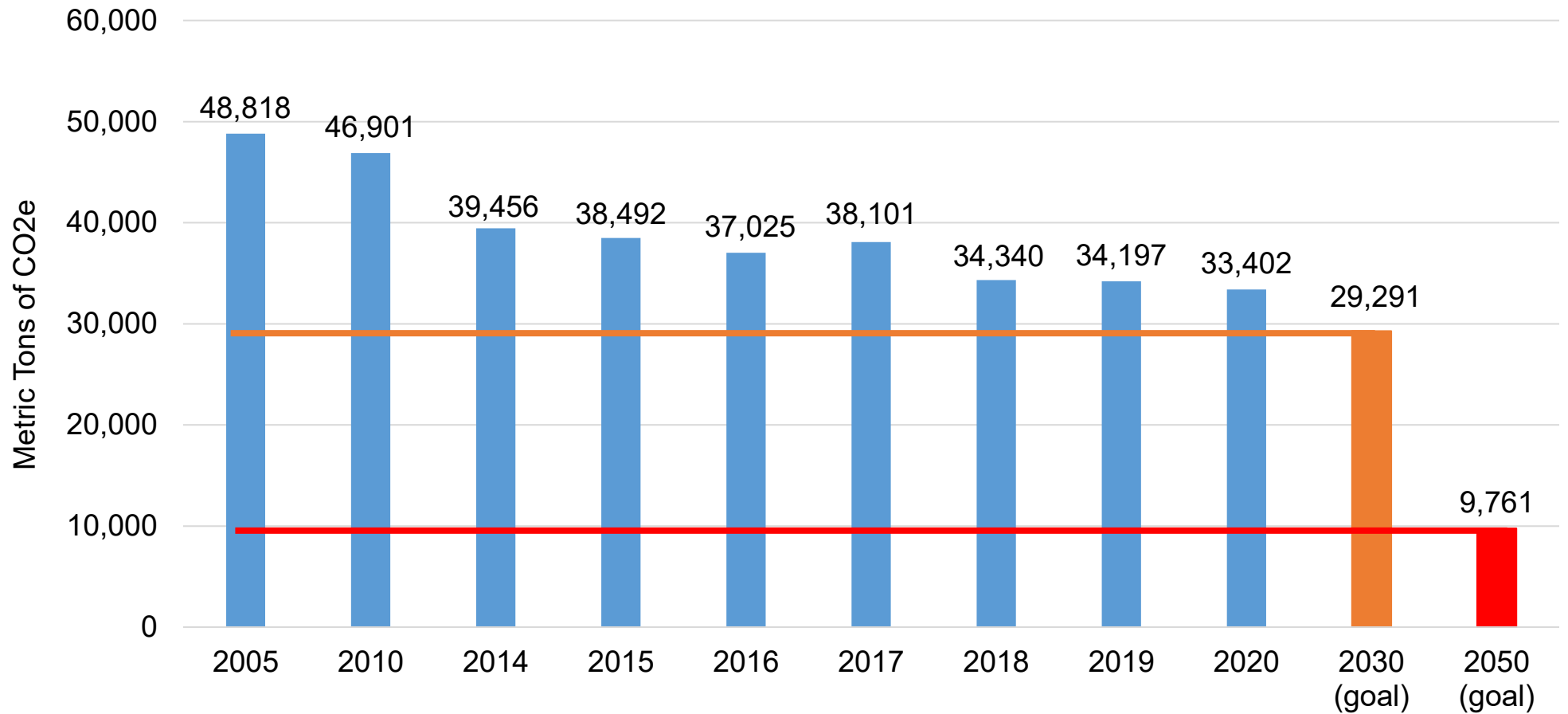


Adopted March 19, 2018



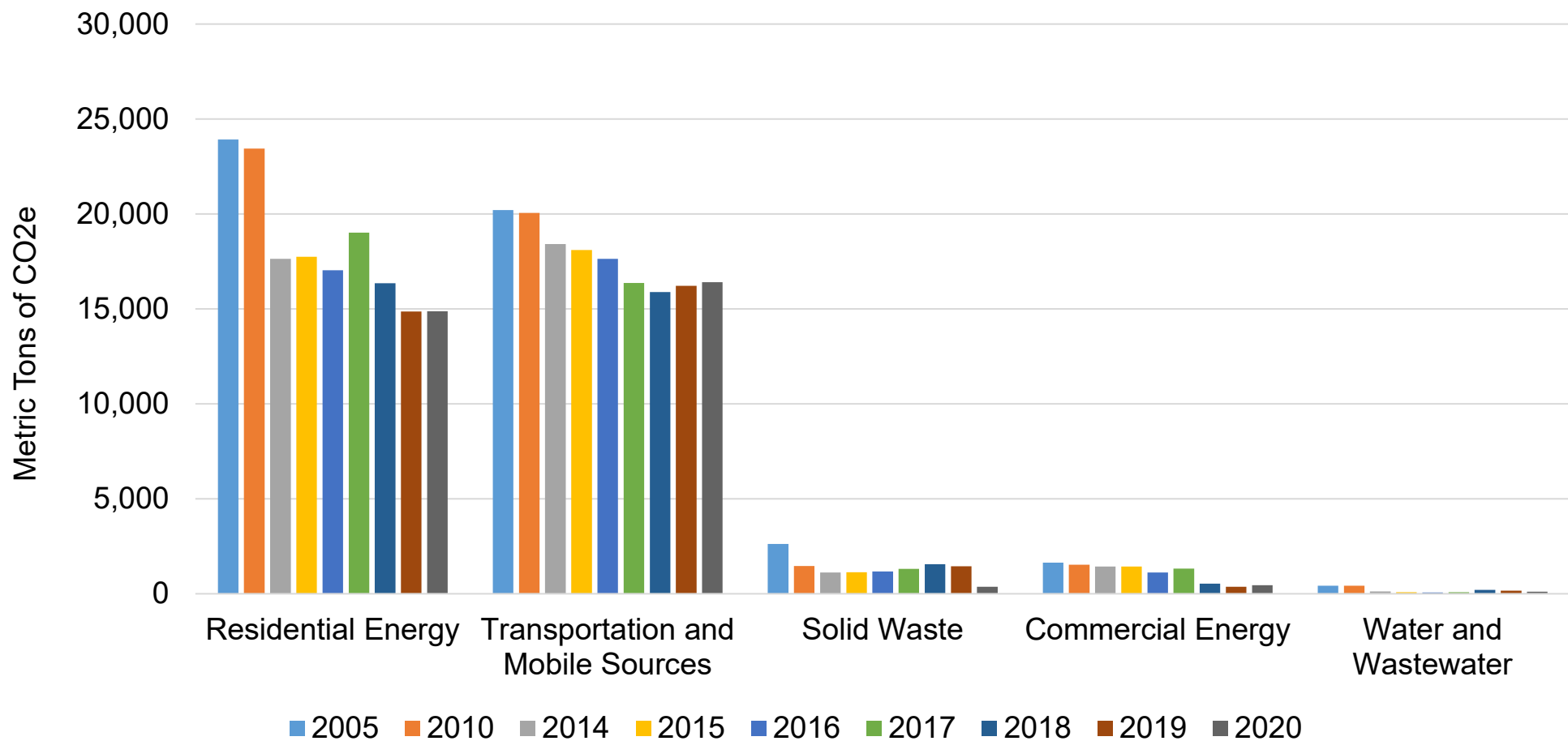


Piedmont GHG Emissions Inventory Trends





Community GHG Emissions per Year by Sector



Takeaway


If we do not reduce emissions from gas vehicles and natural gas use:


We will not meet CAP emissions goals.

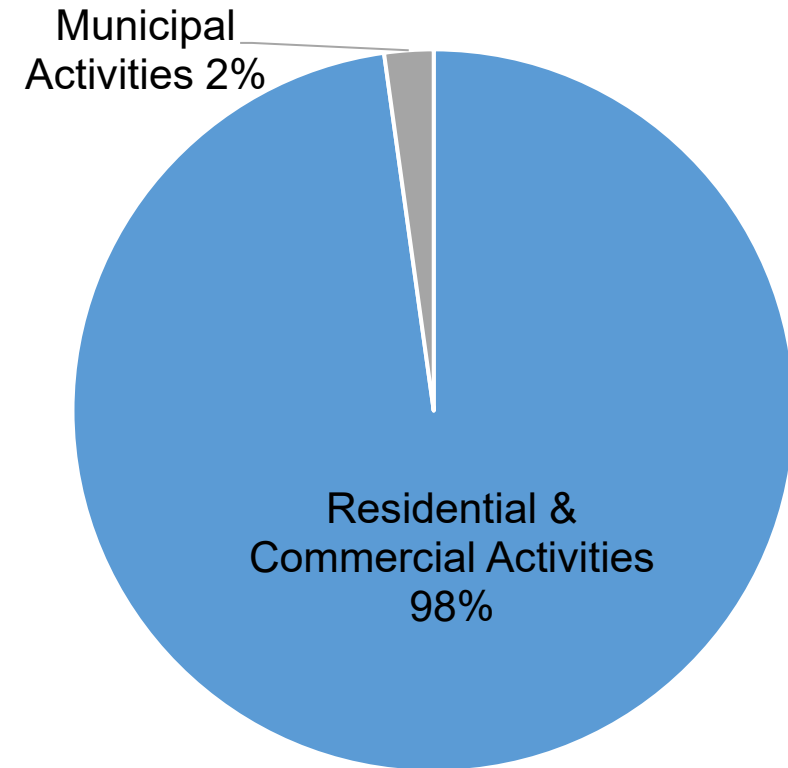




2020 GHG Emissions Inventory Topline

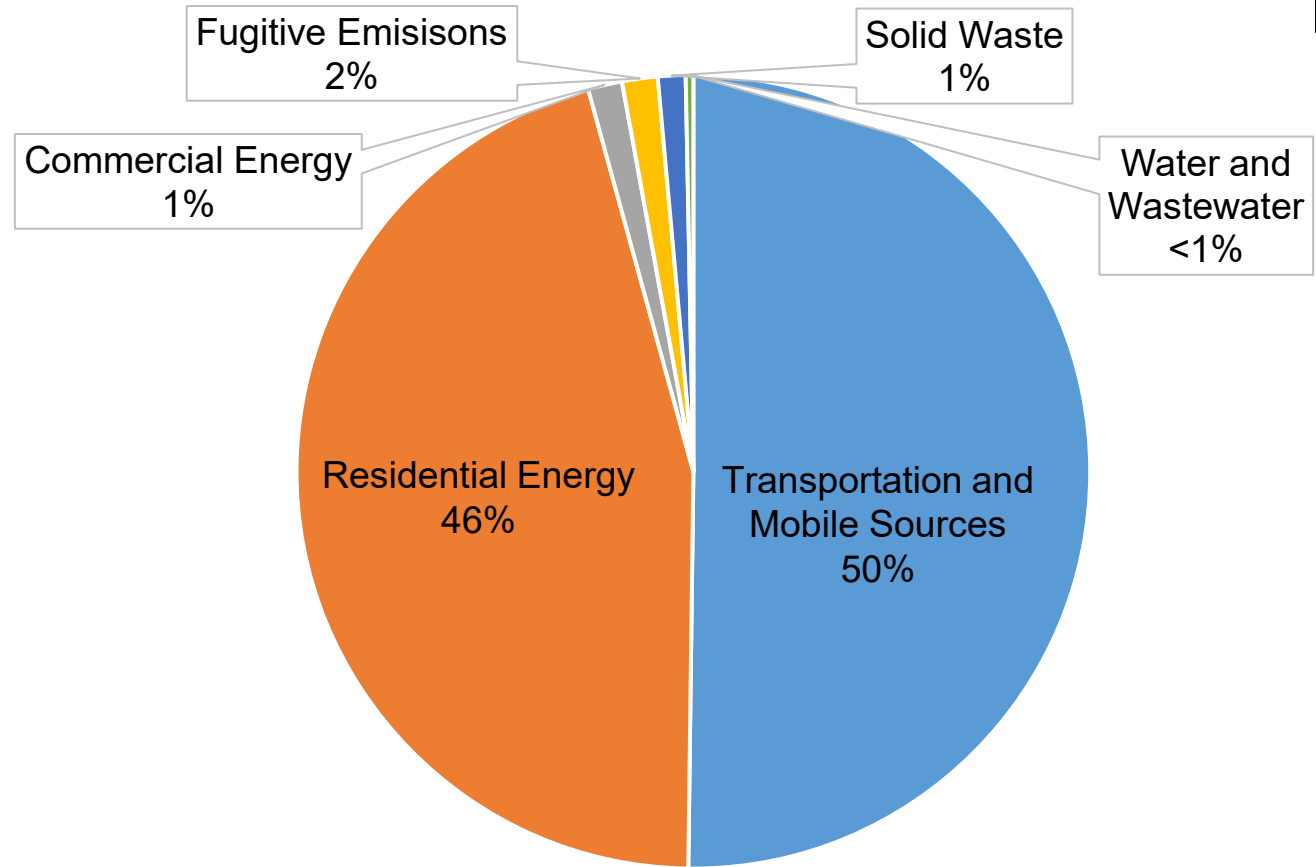
Since 2005...  32%

Since 2017...  12%
2018... 3%
2019... 2%





2020 Community GHG Emissions



Summary:

Transportation: 50%

Buildings: 49%

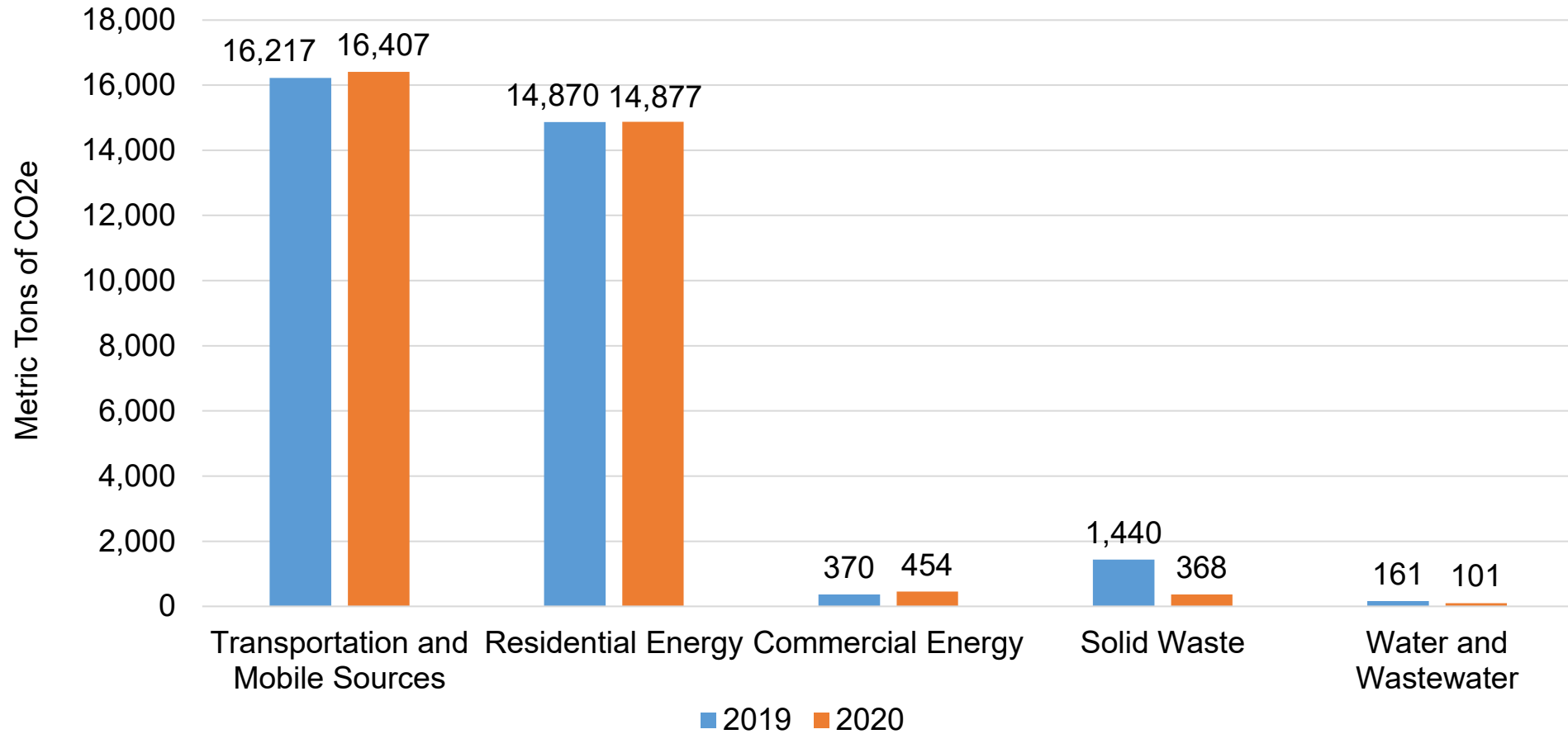
Waste: 1%

Water: <1%



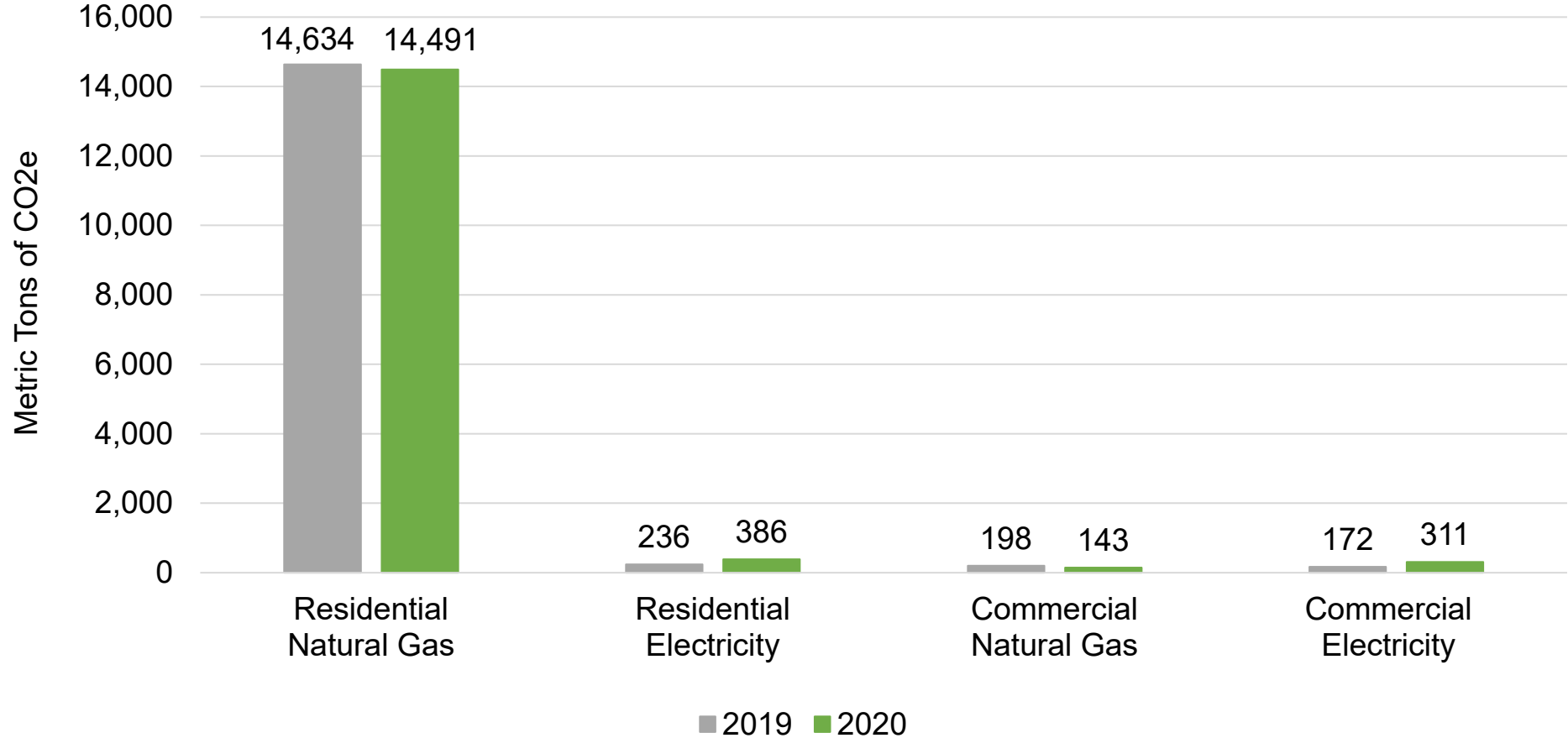


Community GHG Emissions: 2019 vs. 2020





Community Energy Emissions: 2019 vs. 2020



Takeaway

Since 2019, Piedmont saw slight increases across the transportation and buildings & energy use sectors.

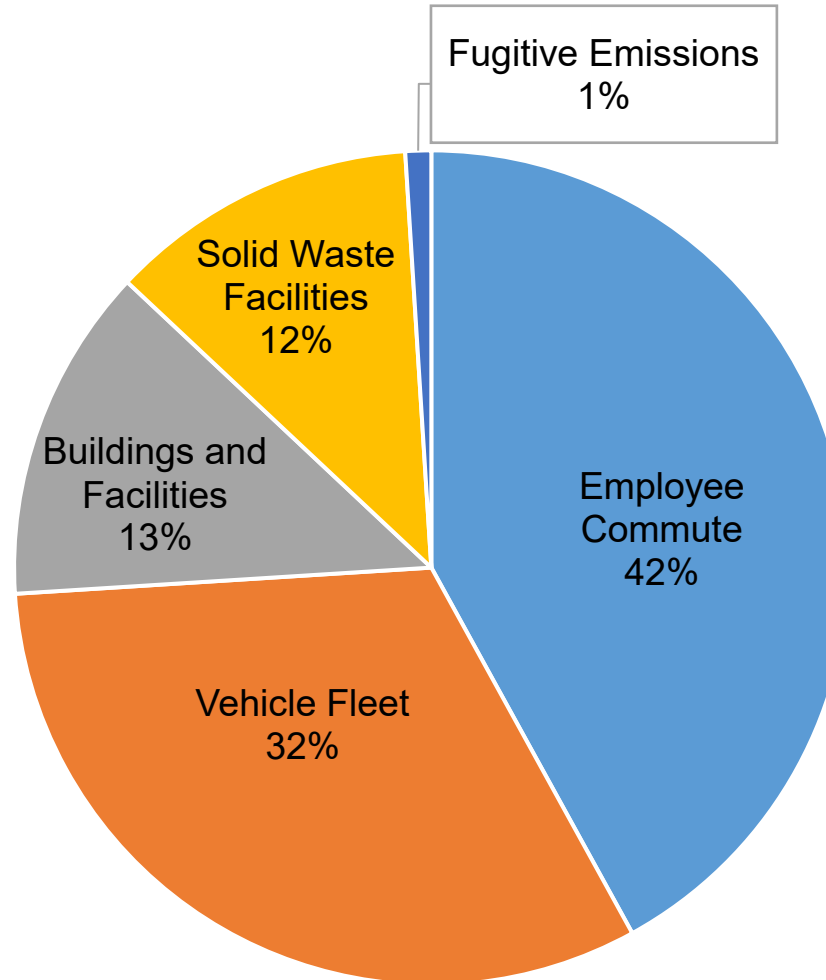
The largest sectors contributing to in-territory community emissions remain transportation (50%) and residential energy (46%).





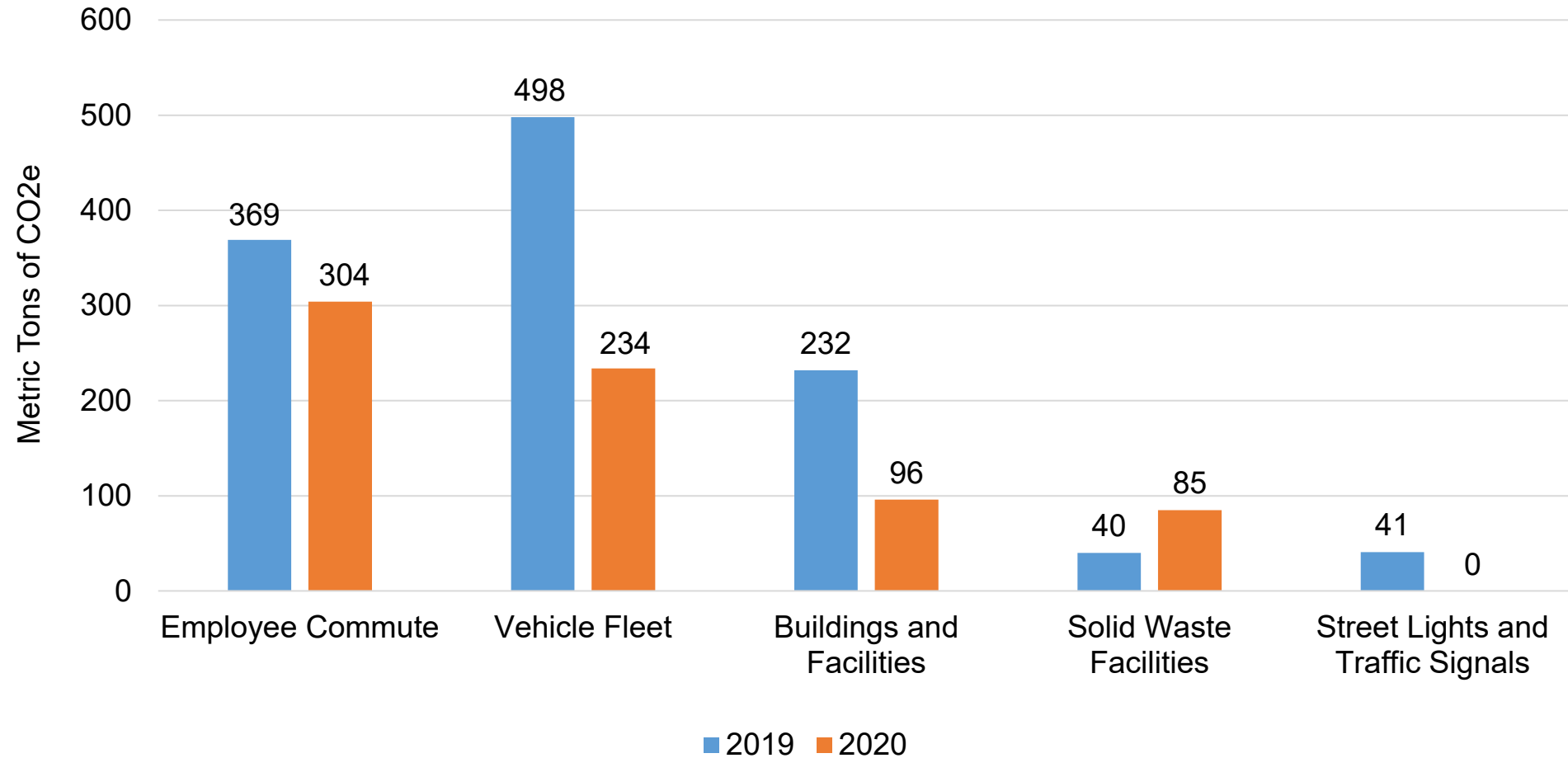
2020 Municipal GHG Emissions

Summary:
Transportation: 74%
Buildings: 14%
Waste: 12%





Municipal GHG Emissions: 2019 vs. 2020



Takeaway

Since 2019, Piedmont saw a 37% decrease in municipal emissions, largely attributed to the COVID-19 pandemic.

The largest sector contributing to in-territory municipal emissions remains transportation (74%).





Conclusions

- We are close to meeting our 2030 emissions goal, but at the current pace, we will not meet the 2050 goal without significant change.
- Natural gas and transportation remain the primary sources of emissions, and are stagnant or increasing.
- Reductions must be centered on decarbonization efforts (e.g., shift to electric vehicles and electric appliances).



CAP Implementation

City programs to help meet CAP goals

- Building Electrification Program
- Electric Vehicle Program
- Organics and Recycling Program
- Sustainability Outreach and Education





Building Electrification

- All-Electric Aquatic Facility
- Heat Pump Water Heater Installations at City Facilities
- Induction Cooktop Lending Program
- Home Energy Assessment Policy
- Reach Codes
- Electrification Incentive Pilot Program

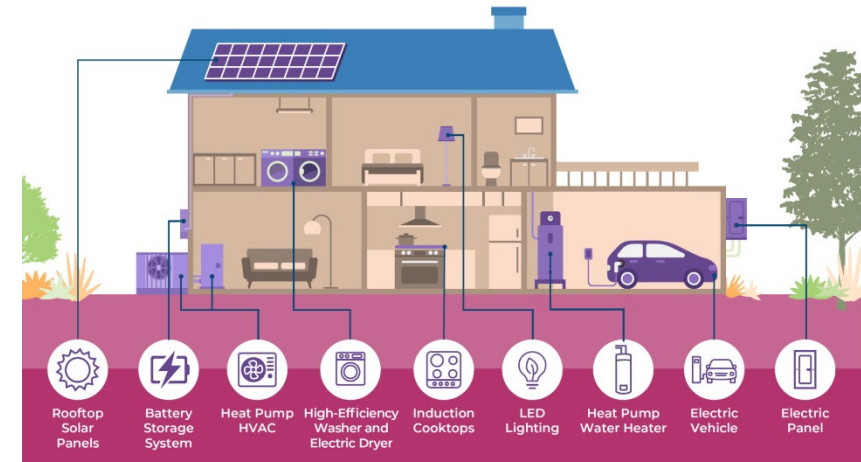


Photo Credit: City of Palo Alto Utilities



Electric Vehicles

- Publicly-accessible EV DCFC project on Magnolia Avenue with East Bay Community Energy (EBCE)
- Exploring feasibility of installing publicly-accessible EV chargers in residential neighborhoods
- Conducting Fleet Electrification Assessment with EBCE
- Retiring gas and diesel-fueled vehicles and adopting electric vehicles



Photo Credit: EBCE



Organics and Recycling

- Senate Bill 1383 and Sustainable Procurement Policy
- Free Compost Giveaway Program
- Piedmont Evergreen event technical assistance
- Bin and signage deployment in public parks and open spaces





Outreach and Education

- Piedmont Climate Challenge
- Continued partnership with Piedmont Connect
- City-wide sustainability events
- Earth Day celebrations
- Piedmont Post Climate Corner
- Climate Action Newsletter



Wednesday, July 13, 2022

PIEDMONT POST

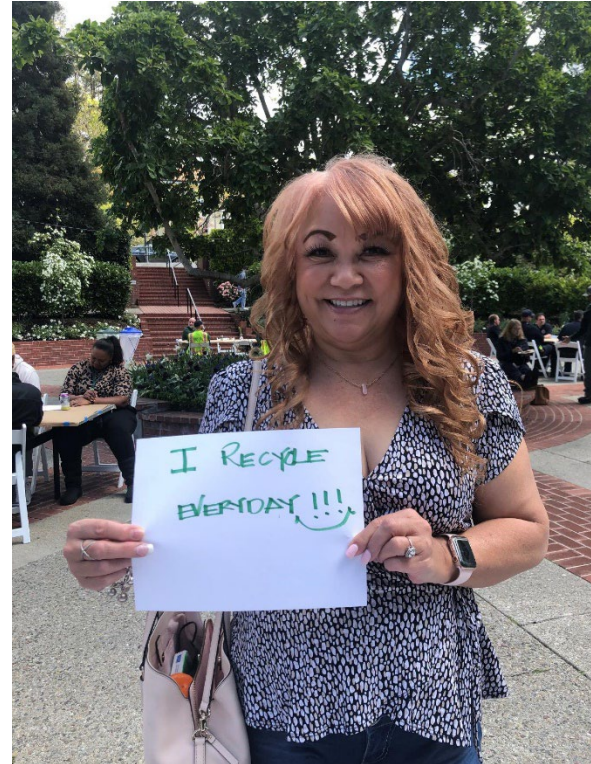
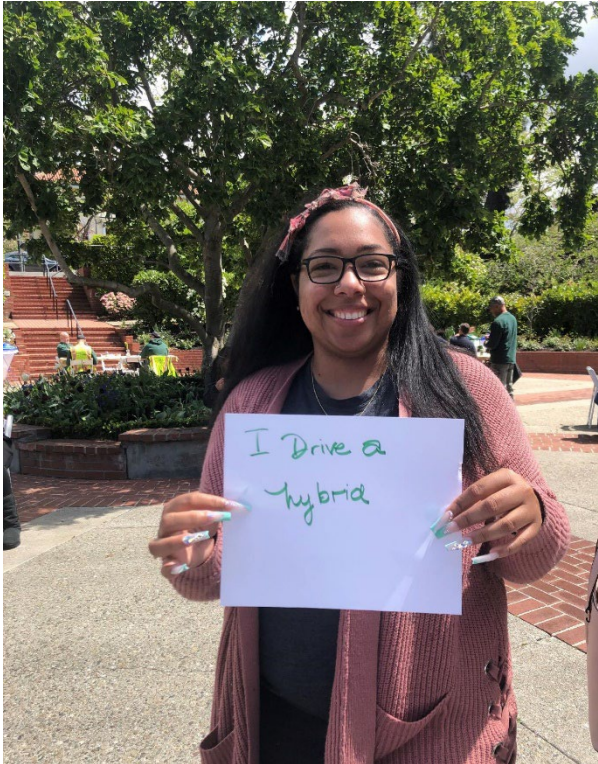


Possible next steps for consideration

- Adopt science-based emission reduction targets to align with state goals
- Adopt a resolution committing Piedmont's municipal facilities and activities to be zero carbon by 2045
- Consider the formation of a City Council-appointed Advisory Body
- Create a permanent fund for climate action initiatives
- Develop an existing buildings electrification strategy
- Develop a fleet purchasing policy to require municipal EV adoption



Thank you!





Contact

Alyssa Dykman

Sustainability Program Manager

adykman@piedmont.ca.gov

