

2018 Community and Municipal Greenhouse Gas Inventory

City Council

3/2/21

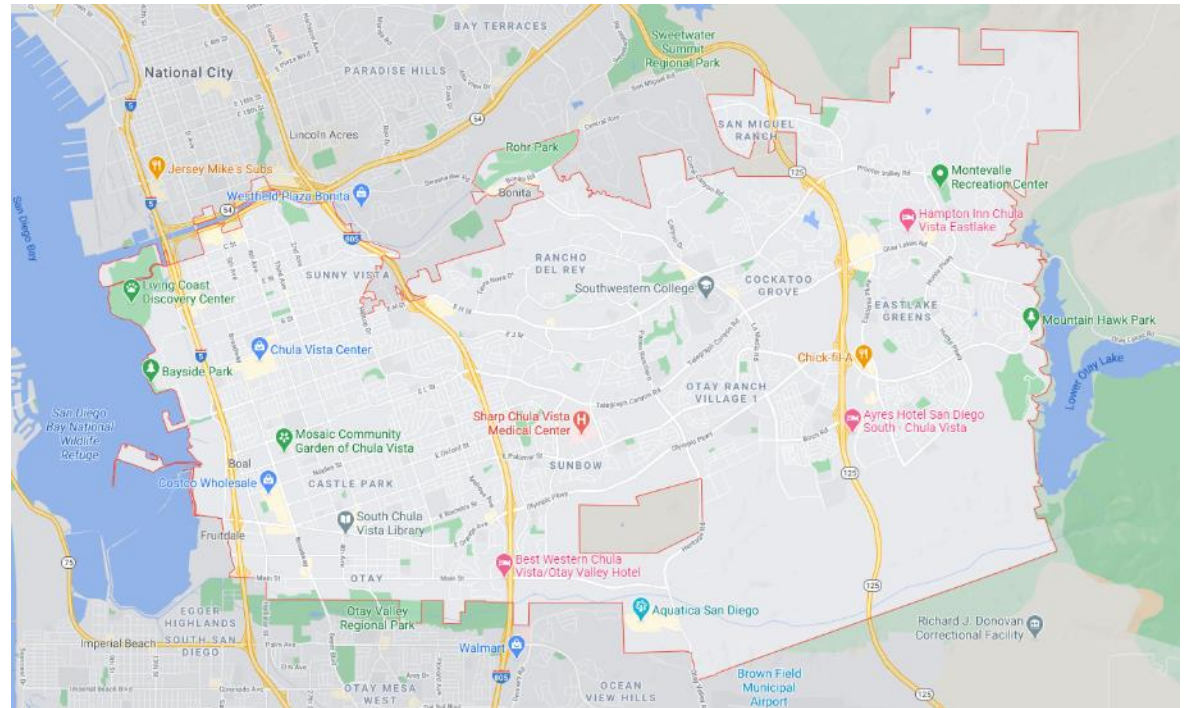


**Department of Economic
Development**

**Office of Sustainability
Conservation Section**

Background

Community Inventories



Emissions from within City boundaries
from community activities

Background

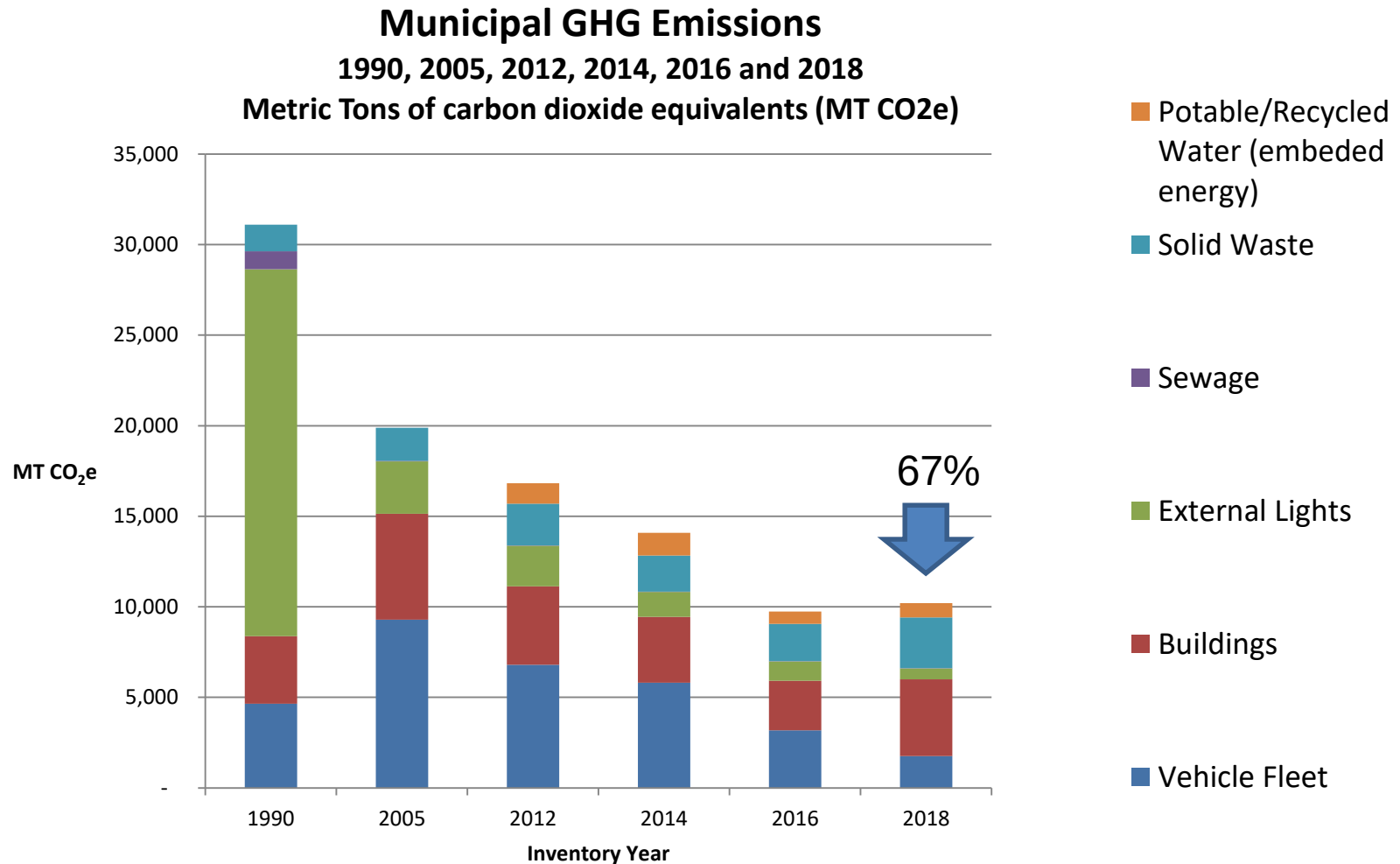


Municipal Inventories

Emissions from City operations

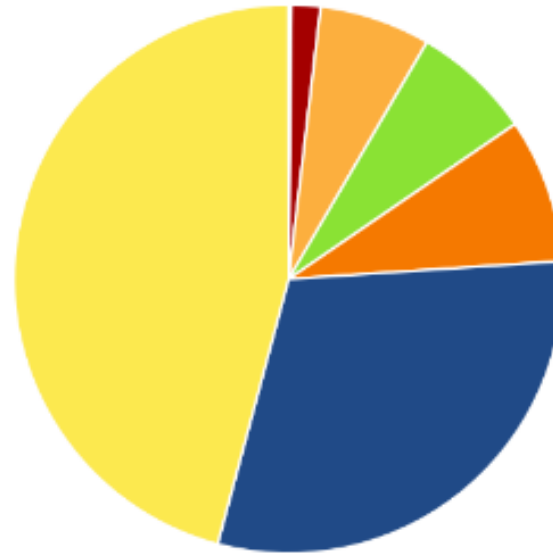
- Buildings
- City Fleet

Municipal Emissions



Emission Sources

Municipal Inventories

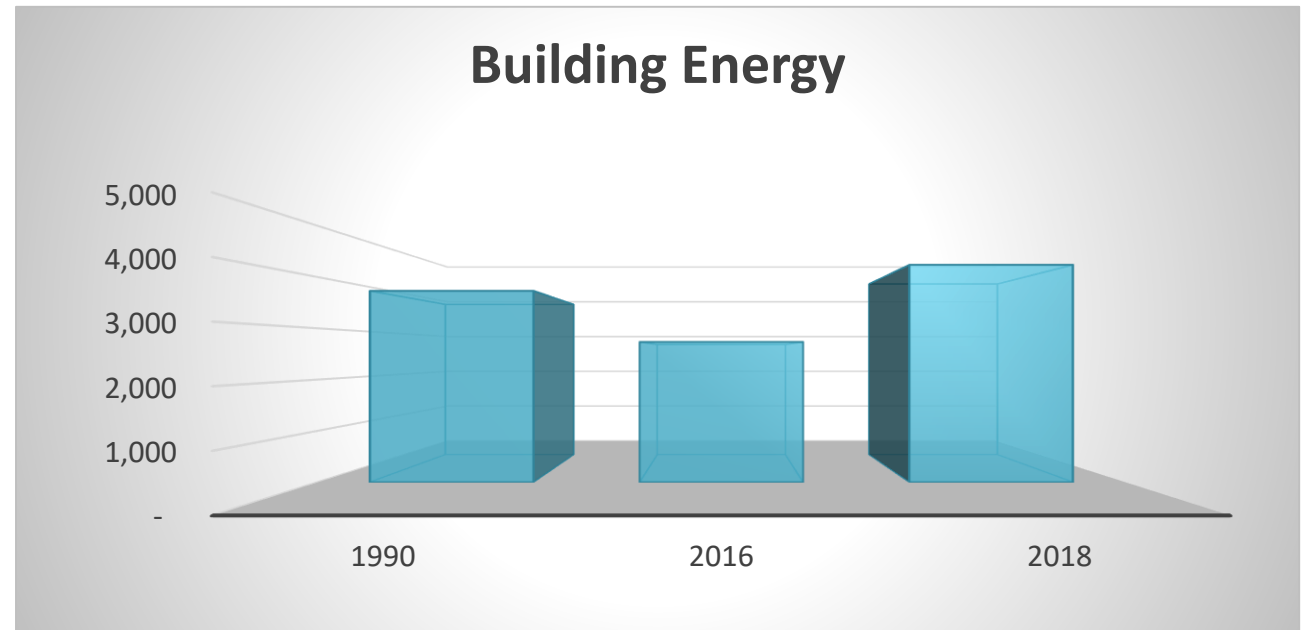


- 41% – Electricity & Natural Gas Consumption
- 27% – Waste Hauled
- 17% – Fuel Consumption by City Fleet
- 8% – Water & Wastewater
- 6% – Street Lights & Traffic Signals
- Less than 1% – Refrigerants, Fired Ordinances, Pools

Primary Sectors - Building Energy Consumption

13%
increase
since 1990

55%
increase
since 2016

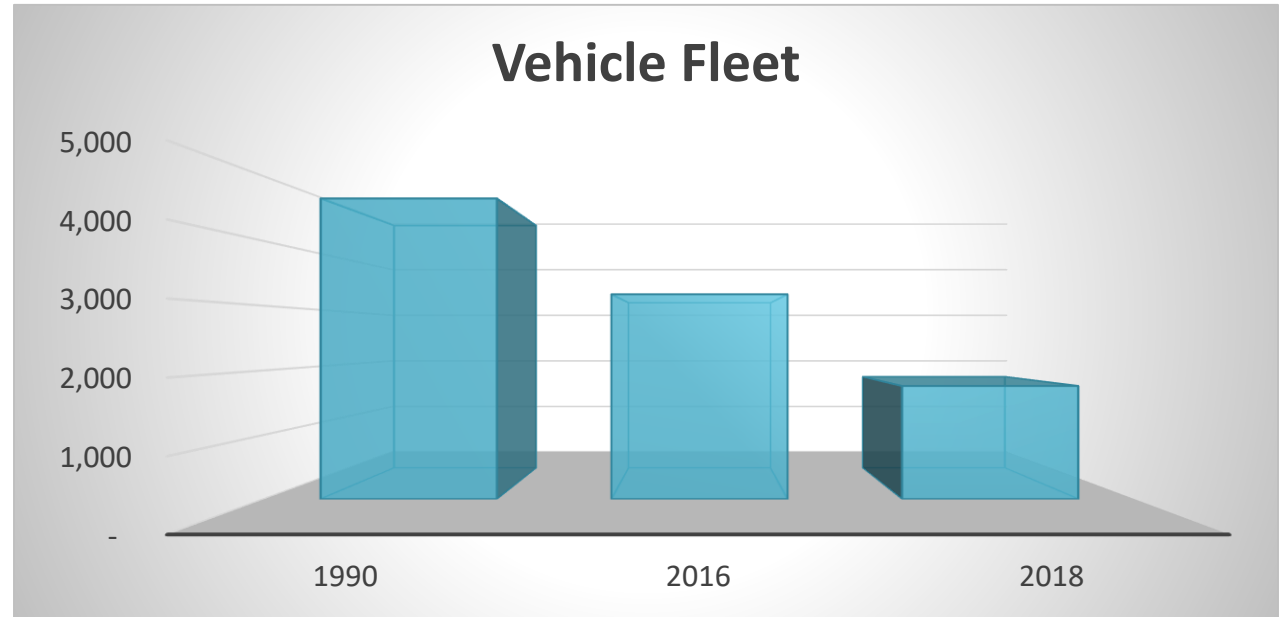


- *Loss of solar production due to large solar project construction*
- *Value of local renewable energy*

Primary Sectors - Vehicle Fleet Fuel Consumption

62%
reduction
since 1990

45%
reduction
since 2016



- *60 vehicle chargers installed for fleet operations*
- *15 vehicles were integrated into the fleet*
- *And later in 2018, City Council voted to acquire an additional 34 new fleet vehicles over the next two years*

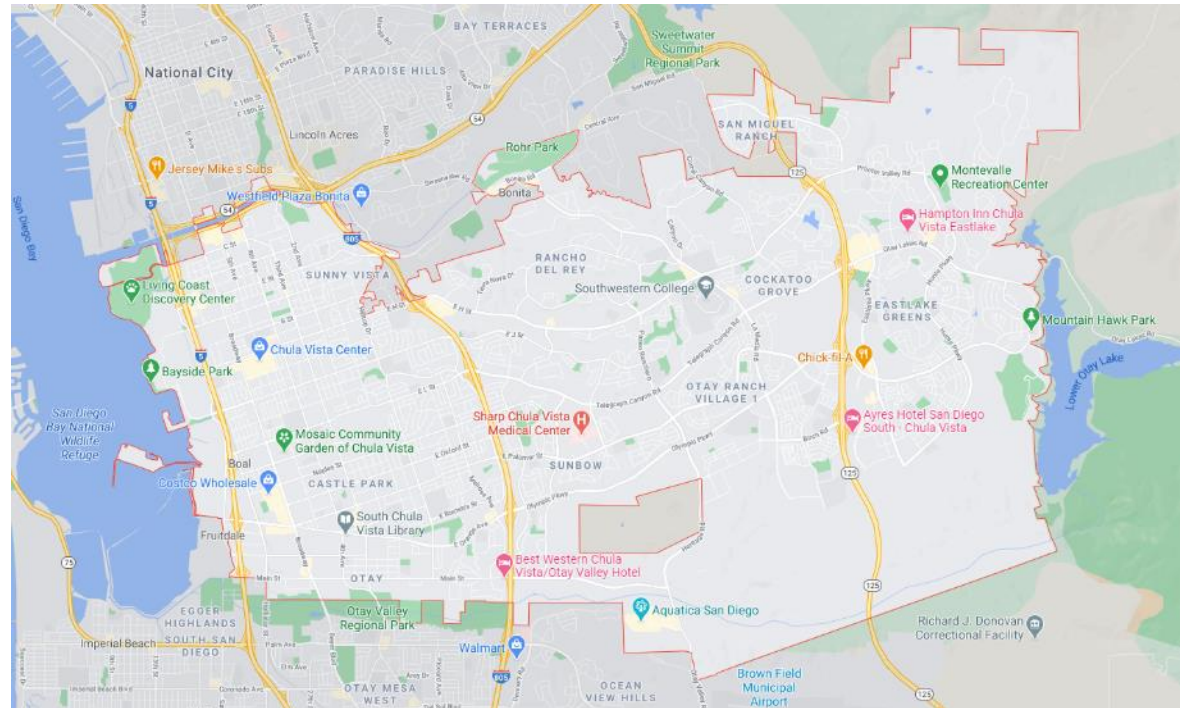
Next Steps

Municipal Inventories

- Indoor LED lighting upgrades
- The City's irrigation system upgrade with smart technologies
- Solar PV panel additions
- Solar battery storage installations

Background

Community Inventories



Emissions from within City boundaries
from community activities

Background

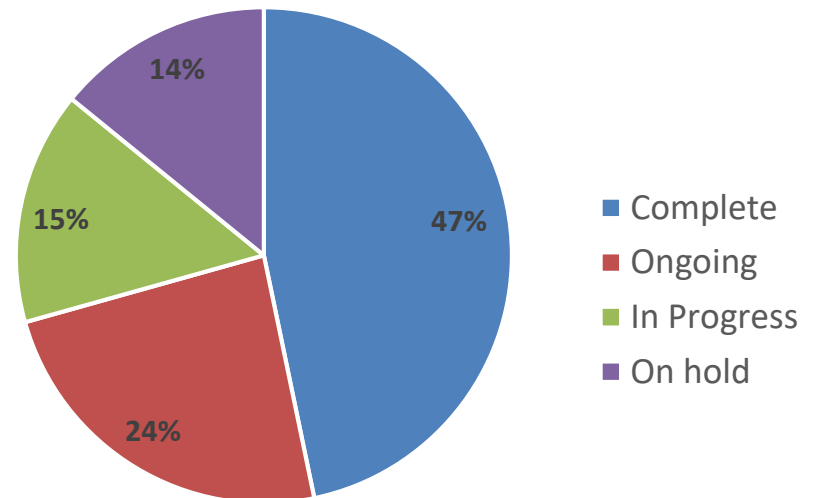


2017

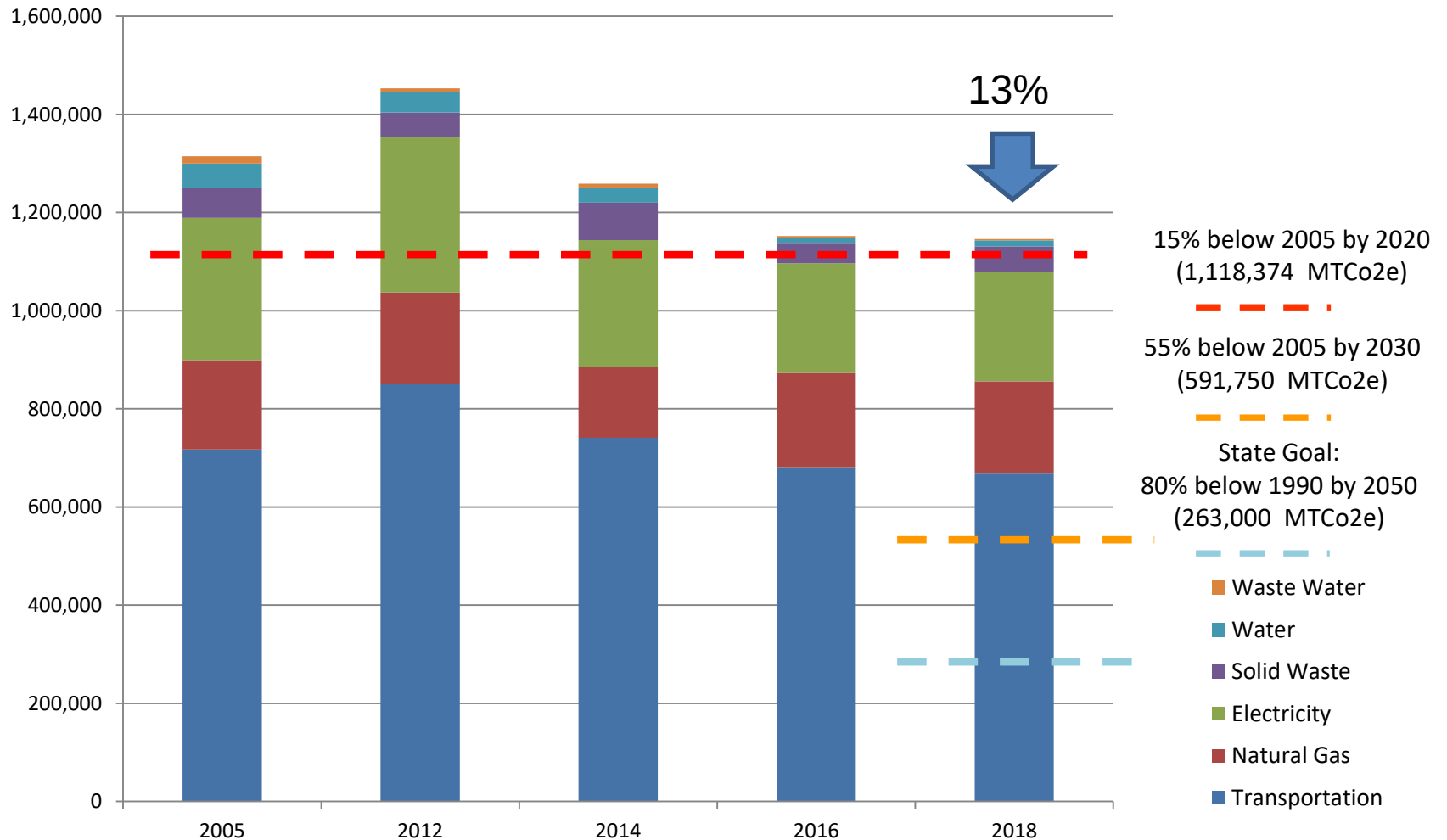


2017 Climate
Action Plan

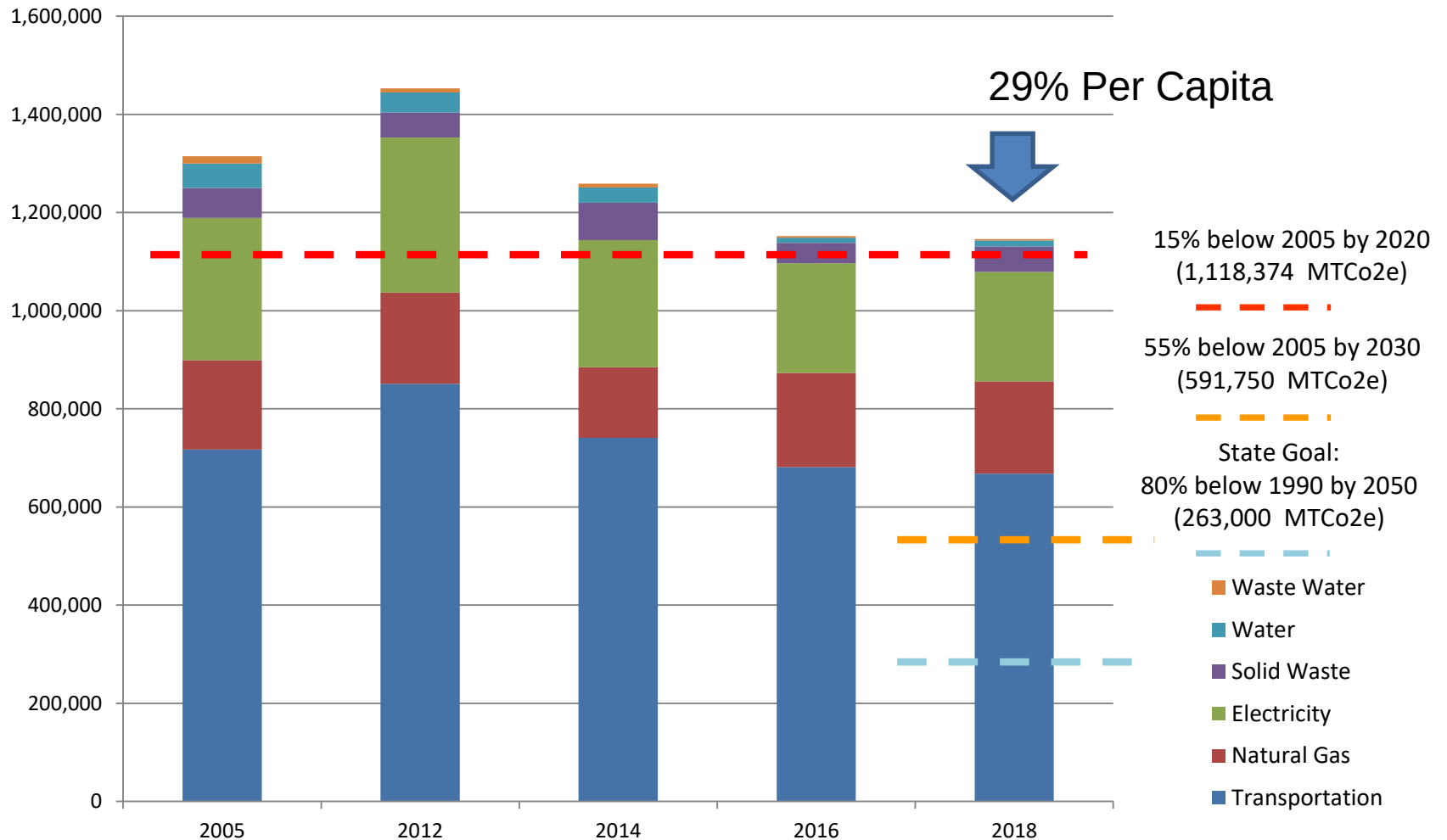
2020 CAP Implementation



Community Emissions



Community Emissions



Transportation

Largest Emissions Reduction

- Data Change

But...

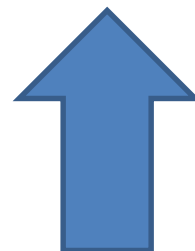
- 2% expected increase in
Vehicle Miles traveled (VMT)

Grams CO₂e/Mile

2014 – 467

2016 – 422

2018 – 406

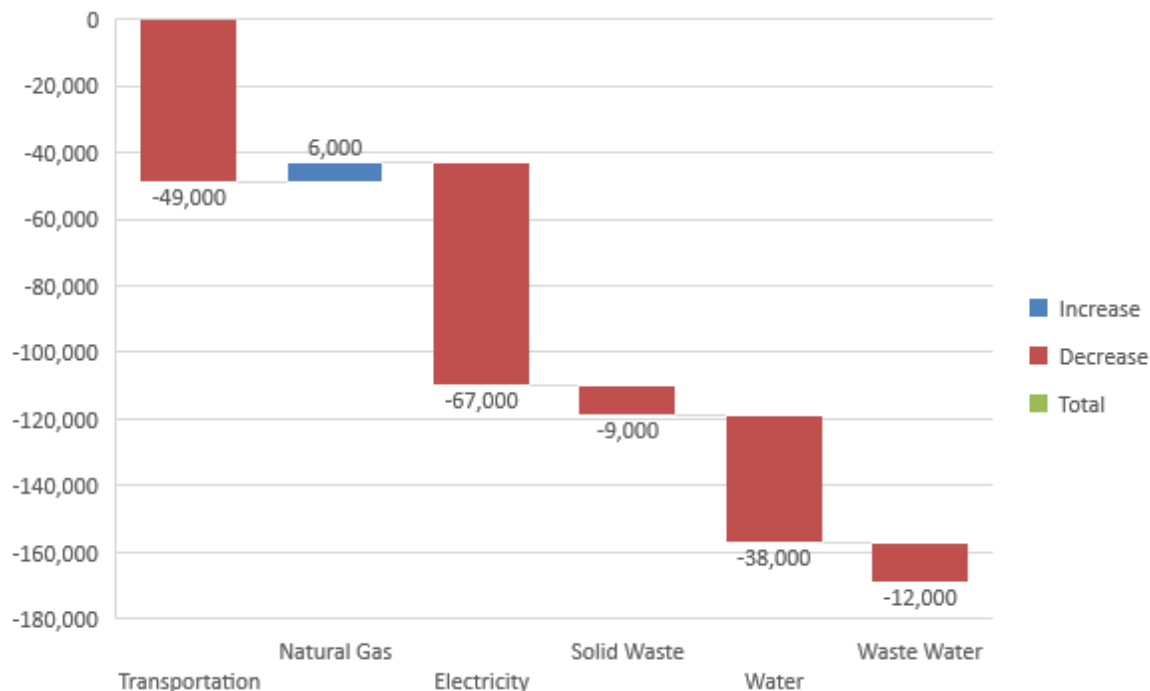


**7% total
reduction
since 2005**

**2%
reduction
since 2016**

Energy

Emissions change since 2005

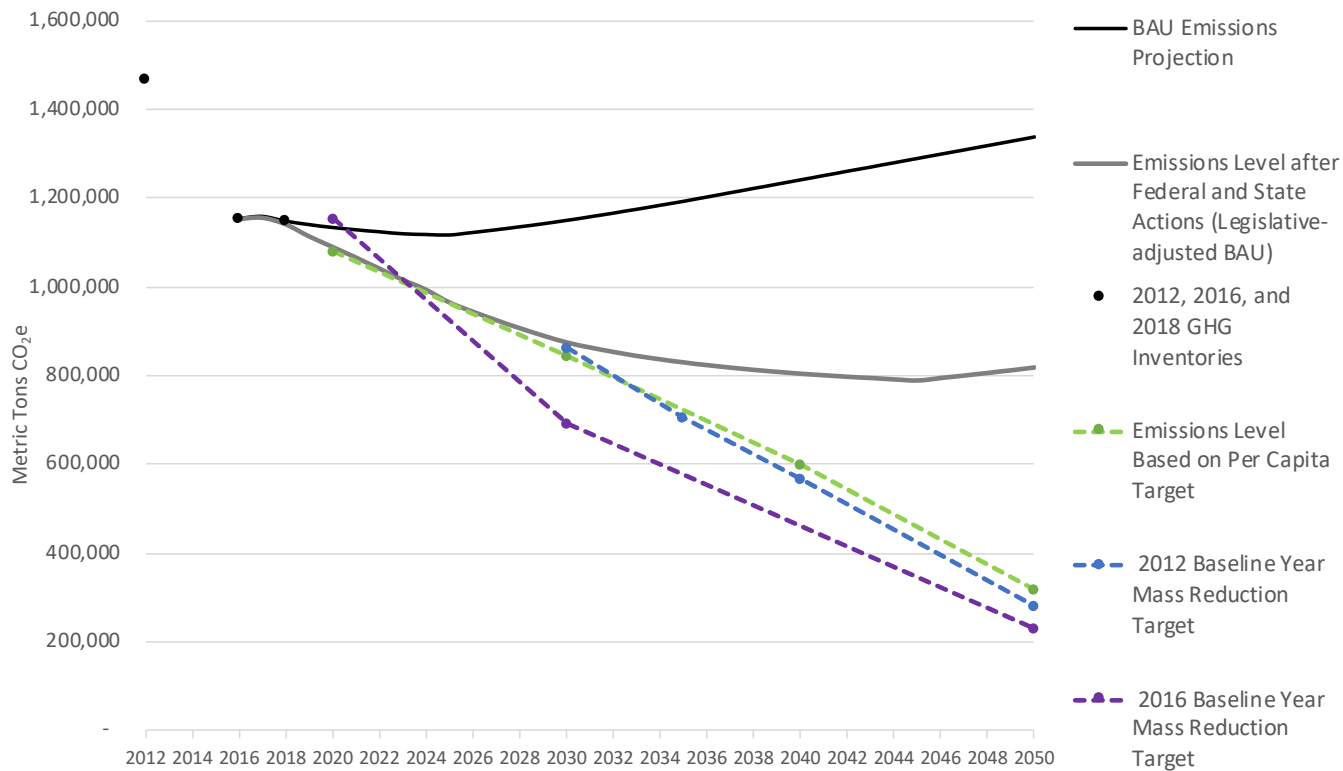


- Natural Gas - 2% reduction in usage and emissions since 2016 but only sector above 2005 baseline

1%
decrease
since 2016

13%
reduction
since 2005

Reduction Goal



Energy Policy Initiatives Center 2020

**Per Capita
emission
reduction
goals
(mt Co2e)**

4 – 2020

3 – 2030

2 – 2040

1 - 2050

Next Steps

- 2020 Community Inventory by EPIC and SANDAG expected in 2022
- San Diego Community Power
- Existing Building Sustainable Energy Ordinance
- Commercial Benchmarking
- Climate Change Working Group Recommendation
 - Approved by Sustainability Commission
 - Will be presented to City Council in April



THANK YOU

Municipal
Yasemin Corrales

Community
Cory Downs

Conservation@chulavistaca.gov

