

PRESENTATION BY  
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# **Climate Action Plan**

## **Update 2020**



TOWN OF VAIL





# CLIMATE ACTION COLLABORATIVE

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## CLIMATE ACTION PLAN

UPDATE  
2020

# Targets for GHG Emissions Reduction

## Climate Action Plan – 2016

- 25% by 2025
- 50% by 2035
- 80% by 2050

## Climate Action Plan – 2020 Update

- 25% by 2025
- **50% by 2030**
- 80% by 2050

## New Additions to the Climate Action Plan

1. Carbon Sequestration
2. Explicit tie to Resilience Plan for Eagle County
  - a. Water Resilience
  - b. Wildfire Resilience

# 50% REDUCTION OF EMISSIONS BY 2030

## PRIORITY ACTIONS TO ACHIEVE 2030 GOAL

### ENERGY SUPPLY

- 100% renewable energy supply for the electric sector by 2030.
- Analyze/develop renewable energy resources through waste-to-energy, methane capture, and digestion.
- Heat waste use and/or renewable energy technology to power district scale snowmelt systems.
- Reduce methane leakage through natural gas system efficiency.

### BUILDINGS

- Beneficial electrification of existing buildings 5% per year.
- Adopt net zero or all-electric construction code for new buildings.
- Benchmark commercial buildings  $\geq 10,000$  square feet.

### WASTE

- 80% organics diverted by 2030. Focus on diversion of all yard waste and cardboard from landfill.
- Divert 100% of all recoverable construction and demolition waste from the landfill by 2030.

### TRANSPORTATION

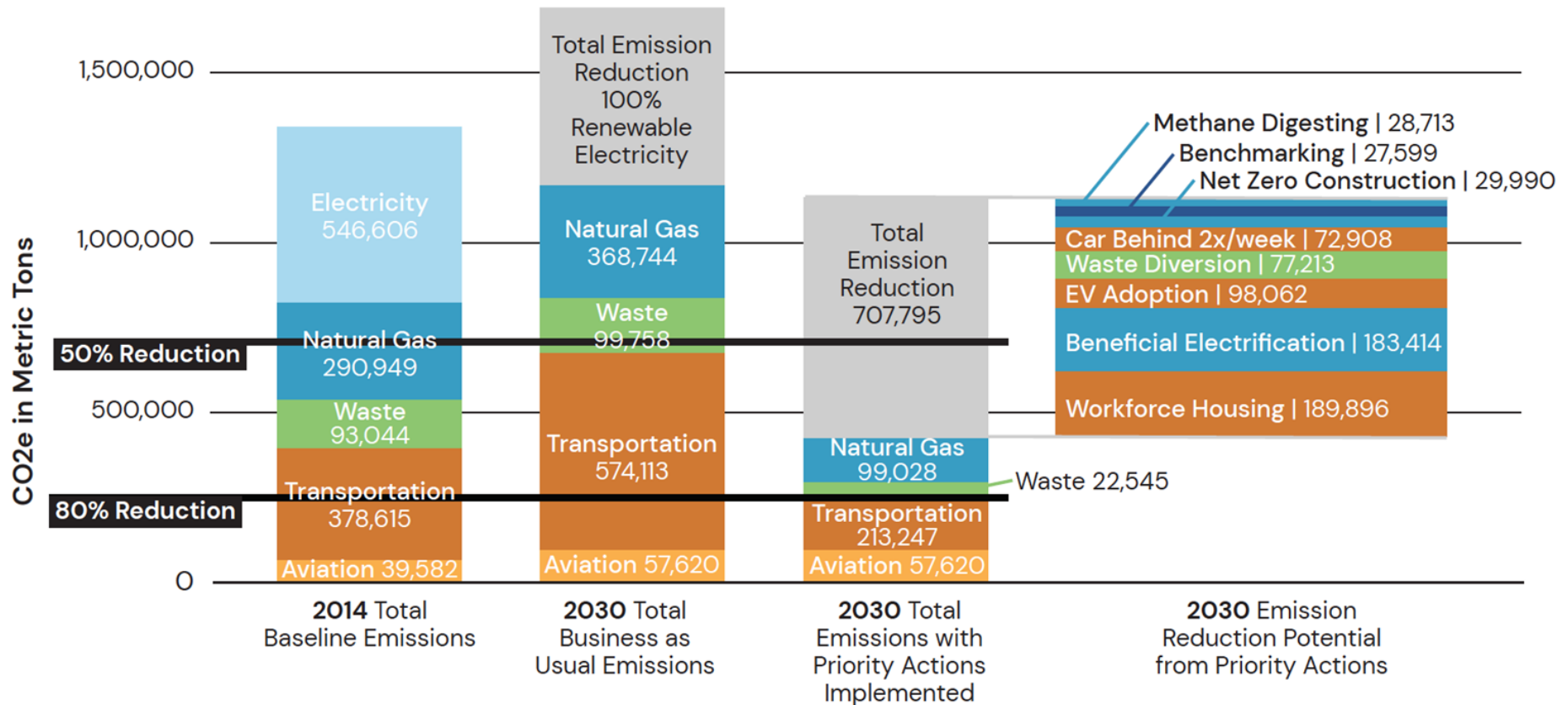
- 2% increase each year of EVs registered in Eagle County.
- Encourage/promote Eagle County commuters to leave car behind 2x per week.
- Move 50% of workforce to live within 5 miles of employment center.





## Carbon Emission Reduction Potential from Priority Actions

All numbers reported in Metric tons of CO<sub>2</sub>e



## ANNUAL SUCCESS BENCHMARKS

### Transportation

**1,100** new EV's on the road.

**2x per week**, Eagle County residents leave their cars behind on work commute.

### Buildings

**10** commercial buildings electrified.

**1,641** residential homes electrified.

**10%** increase of new building SF to be all-electric or net zero.

**≥10,000** SF commercial buildings benchmarked.

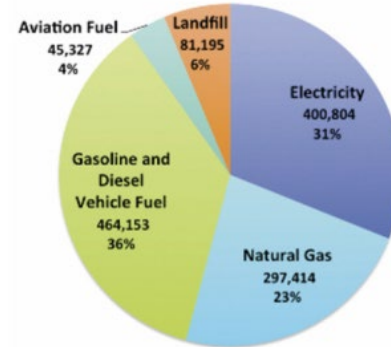
### Waste

**8%** increase in organic waste diverted through recycling and compost.

**10%** increase in diversion of recoverable construction waste.

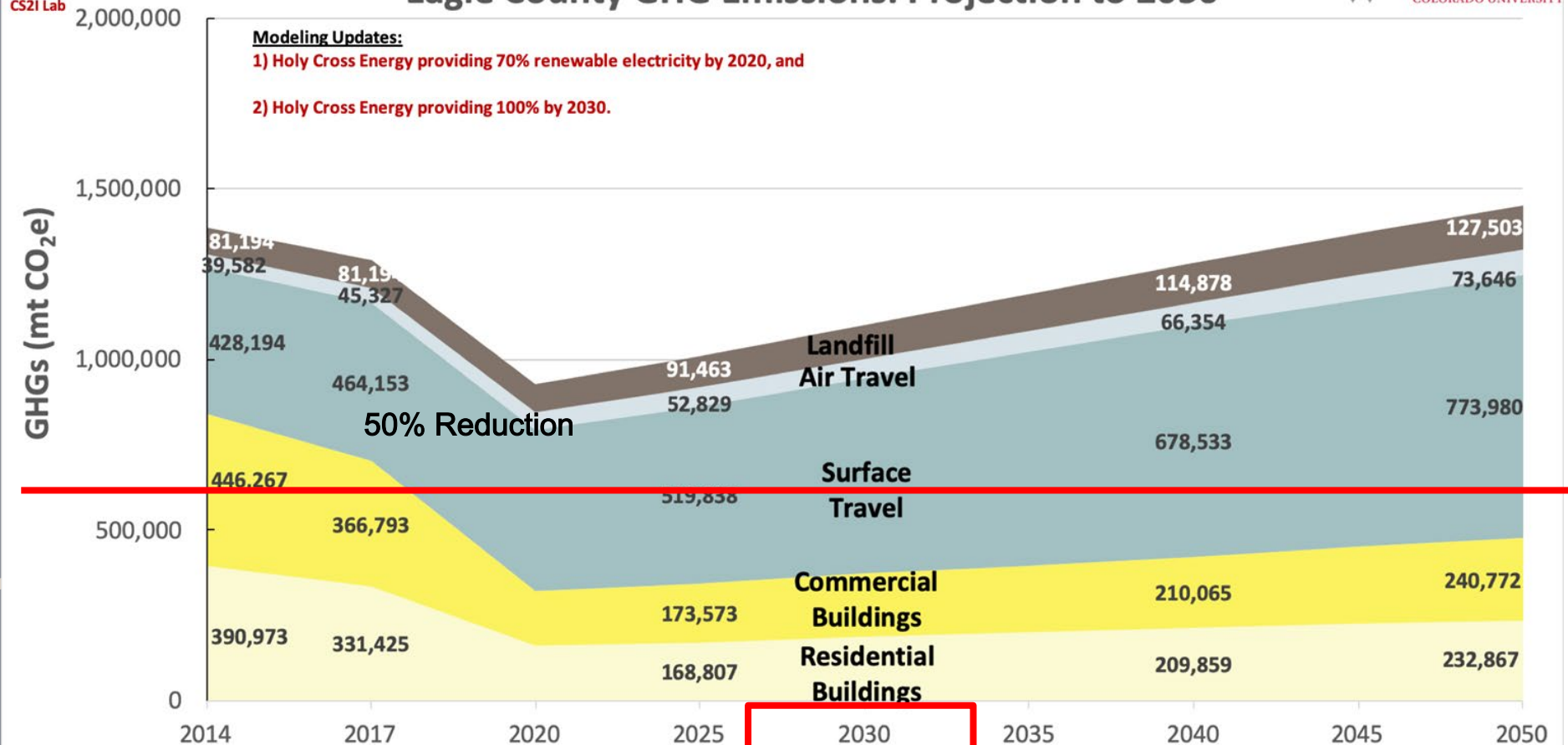
# GHG Forecast to 2050

## 4. Emissions by Source, 2017 Metric tons of CO<sub>2</sub>e



2019 Update  
Western Colorado University  
CS2I Lab

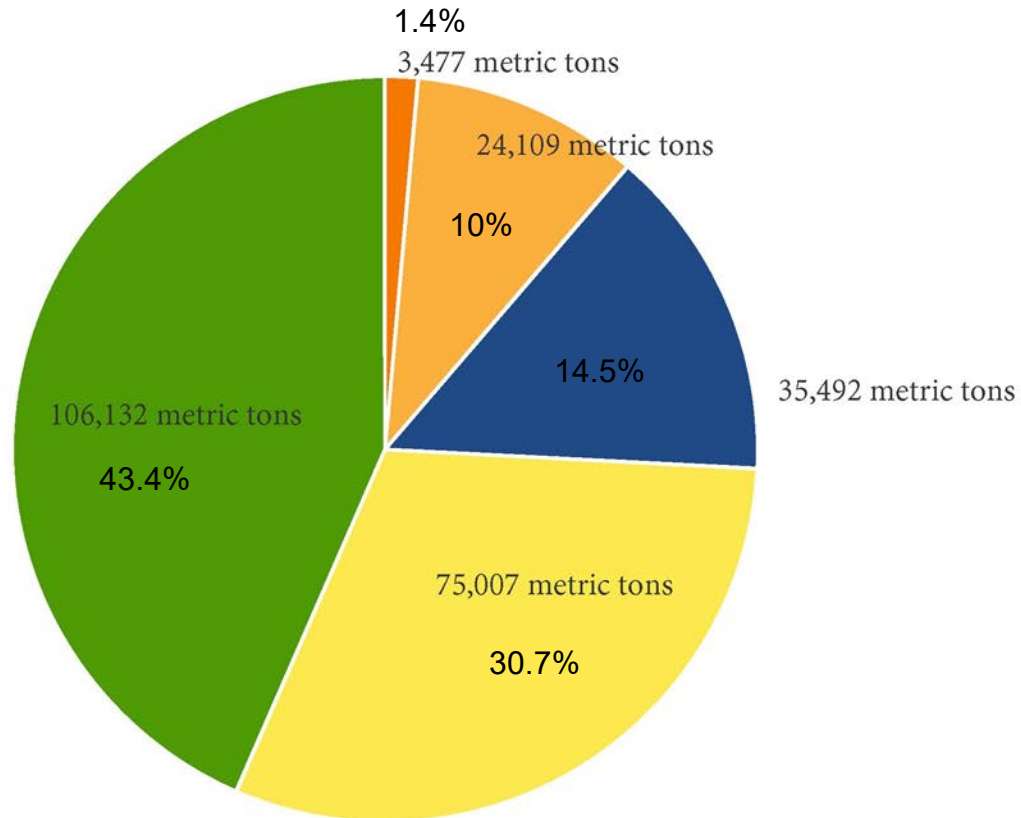
## Eagle County GHG Emissions: Projection to 2050



# Town of Vail GHG Inventory 2018

## CO2e By Category

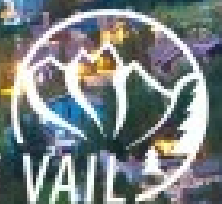
Total CO2e - 244,217 metric tons



- Industrial Energy
- Water & Wastewater
- Solid Waste
- Residential Energy
- Transportation & Mobile Sources
- Commercial Energy

Note: GHG Inventory was conducted in 2020 using data from 2018.

Thank you



TOWN OF VAIL