




# Introduction to the Climate Action Plan

Novato Sustainability Commission

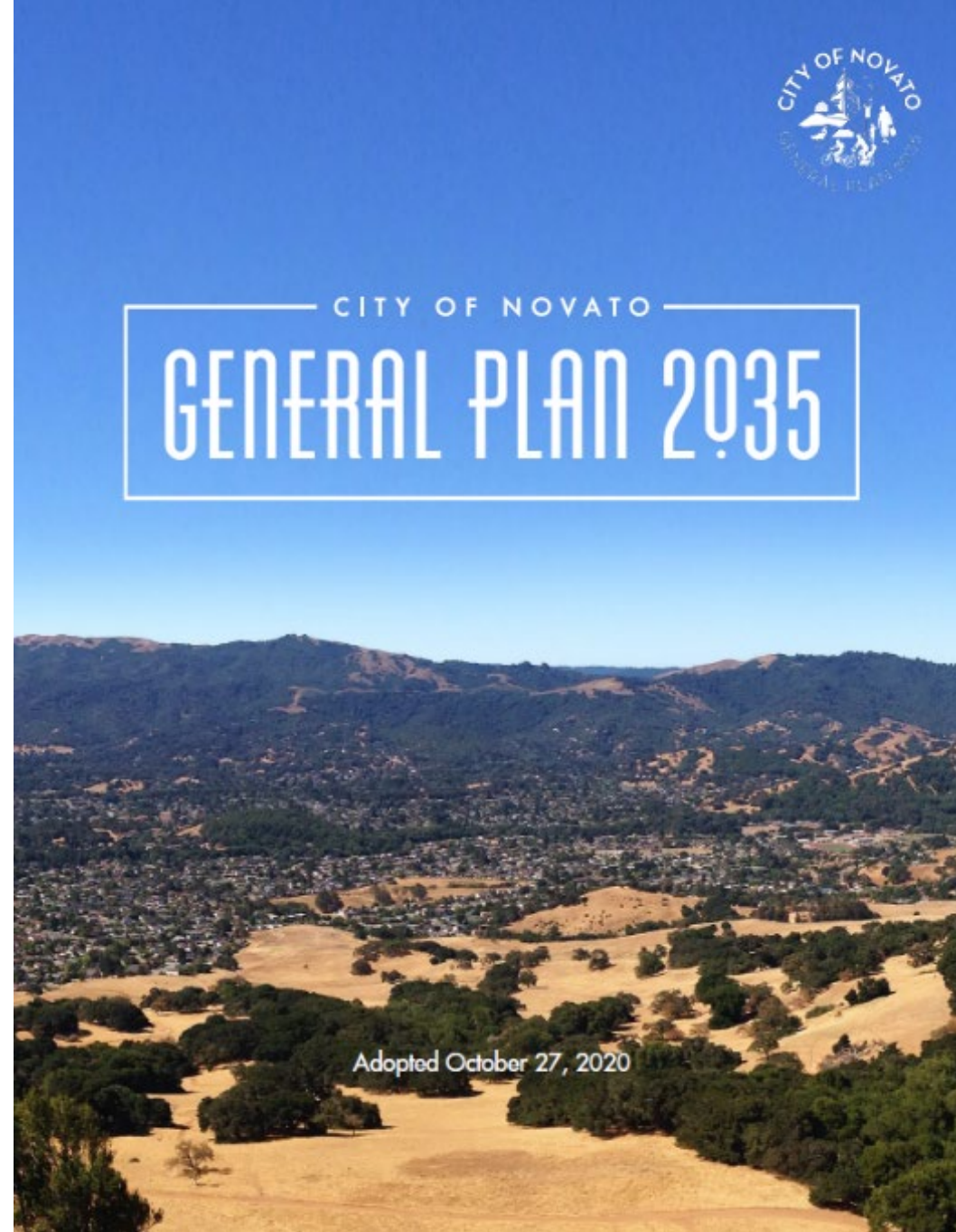
July 20, 2023

## Novato's Climate Action Plan (CAP)

- First adopted in 2009 with a goal to reduce emissions 15% below 2005 levels by 2020 and 40% by 2035. 2020 goal was reached in 2016
- CAP was integrated into the new General Plan 2035. CAP Policies and programs marked with a 
- CAP goal is a 40% reduction from 2005 level by 2035
- 30 local actions to reduce GHG emissions in Appendix E
- CAP demonstrated emissions reductions of 48% below 2005 levels by 2035 (39% below 1990 level)



CITY OF NOVATO  
GENERAL PLAN 2035



Adopted October 27, 2020



## CAP Successes - Municipal

- All streetlights converted to LED and lighting at Police Station upgraded
- Seven gas water heaters replaced with hot water heat pumps at no cost
- Police pursuit vehicles transitioned to hybrids and three EVs introduced into fleet
- All City electricity accounts switched to MCE Deep Green
- Solar and EV charging station permit streamlining implemented
- Vanpool program initiated and introduced ride-share program
- Solar arrays installed at six City-owned facilities

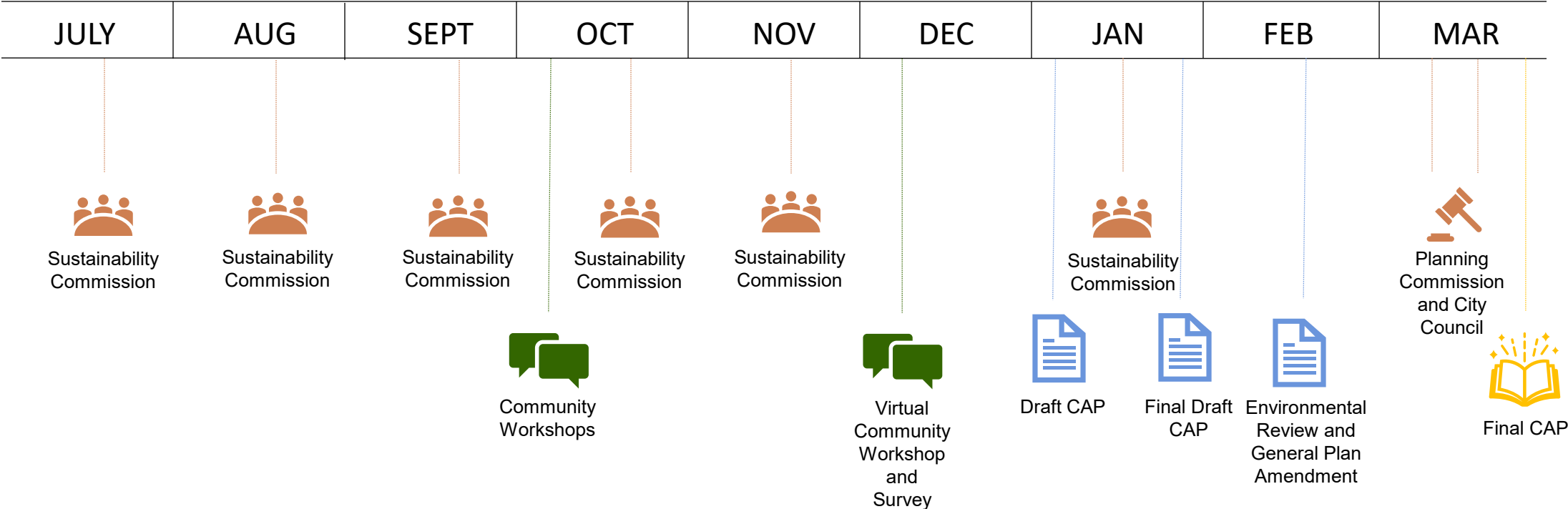


## CAP Successes - Community

- 5% of registered light-duty vehicles in Novato are ZEVs (8% countywide by the end of 2022)
- Electricity is 60% renewable and 93% GHG-free (as of end of 2021)
- 12 City-owned EV charging stations (22 charging ports) installed for public use with funding from TAM & MCE 88 volunteers
- Planted 77 trees in local parks for Arbor Day 2021
- Approx. 200 Resilient Neighborhood graduates
- 1,700 people attended outreach and education events (*Green Film Series, EV Expo, Green Living Festival, Solar Basics Workshop, Home Energy Score Workshop, North Bay Climate Summit*) and 1,100 people on Sustainability mailing list

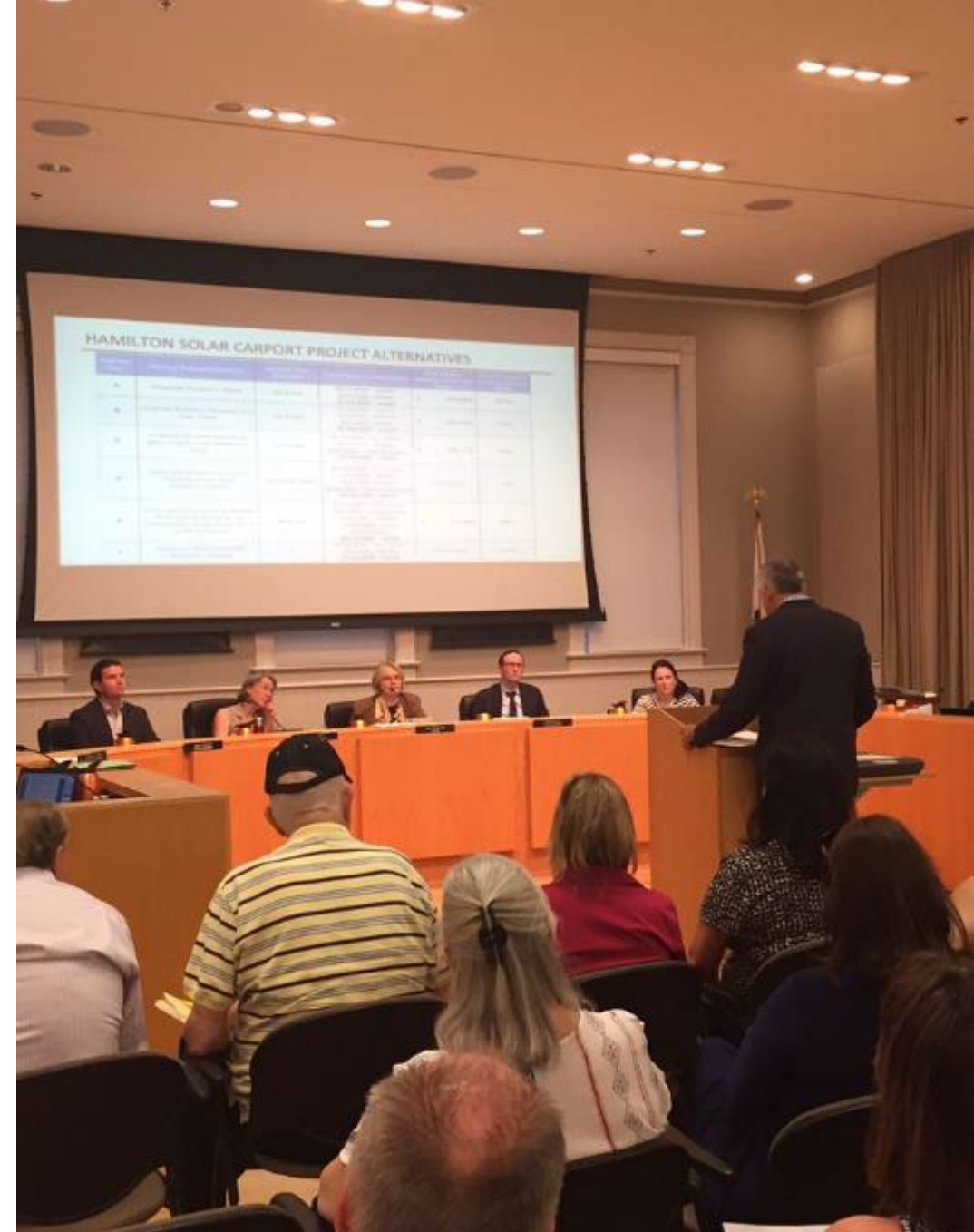


# CAP Update Timeline



## Sustainability Commission's Role and Responsibilities

- Participate in CAP update meetings facilitated by City staff and CAP consultant to identify and prioritize local greenhouse gas reduction measures
- Participate in community engagement activities to identify community priorities
- Review draft CAP and provide recommendation to Planning Commission and City Council





## Guiding Principles

- Use MCEP template for consistency
- Focus local actions on those that most efficiently and cost-effectively reduce GHG emissions and provide the greatest co-benefits
- Leverage regional, state, and federal funds and programs
- Consider equitable access to CAP programs and strive for equitable outcomes
- Develop a plan that meets or exceeds statewide GHG reduction targets
- Provide metrics to track and measure progress of CAP actions



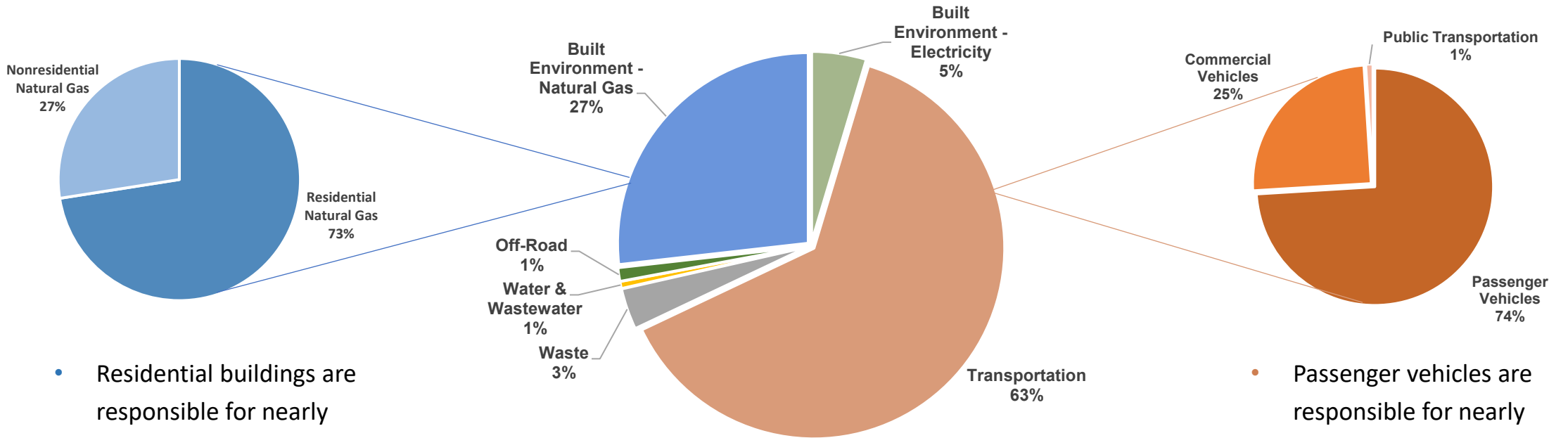
## Climate Action Plan Components

1. Quantify emissions for area under City's jurisdiction
2. Forecast emissions under a "business-as-usual" emissions scenario for a target year
3. Set a goal
4. Identify State and regional agency actions that will reduce emissions
5. Identify local actions that will further reduce emissions to meet goal





# 1. Quantify GHG Emissions

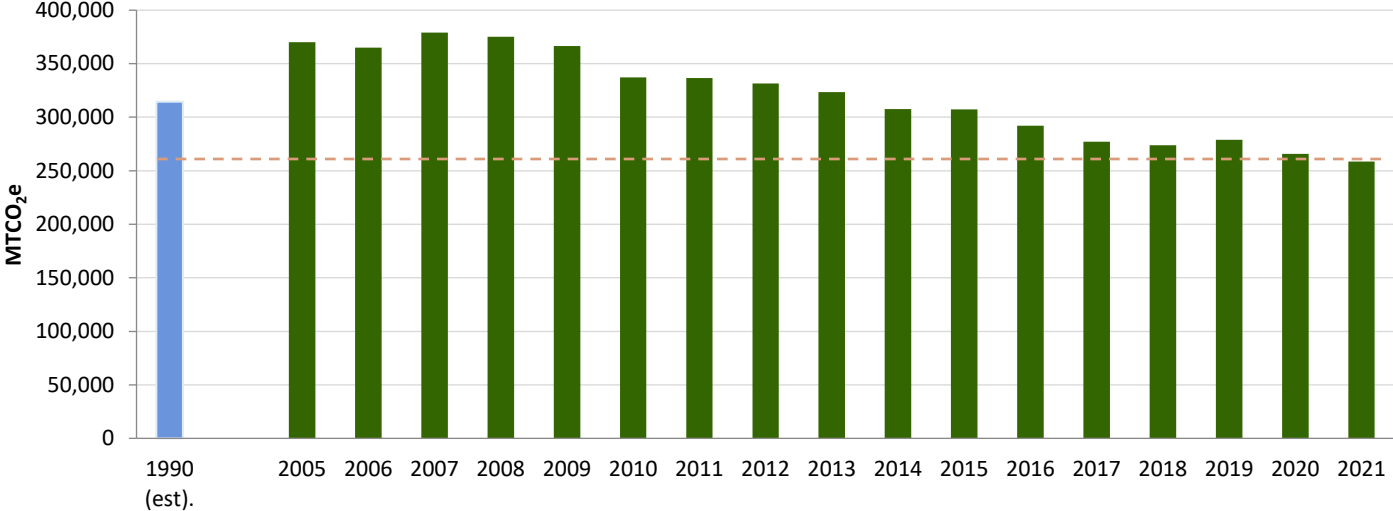


- Residential buildings are responsible for nearly three-quarters of natural gas emissions

- Passenger vehicles are responsible for nearly three-quarters of transportation emissions

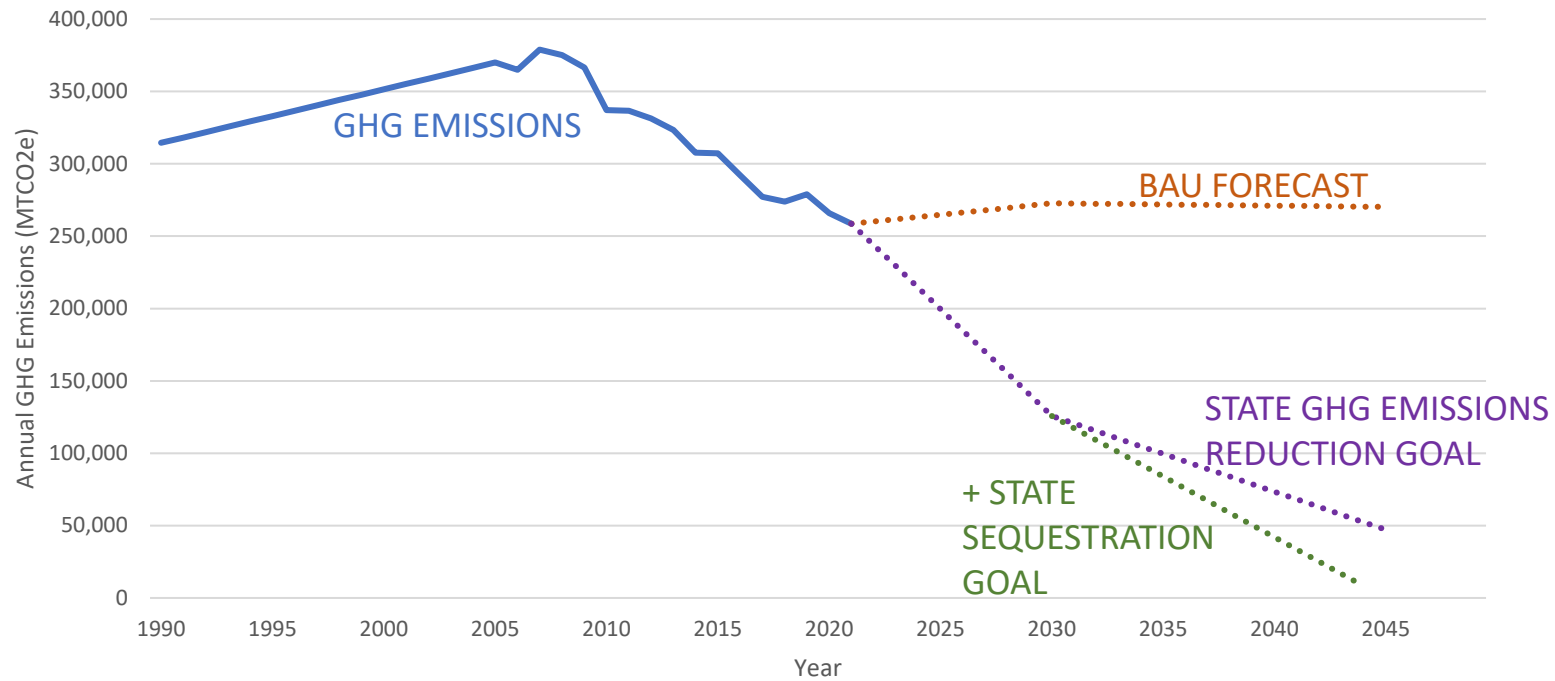
- Emissions from the Transportation sector are responsible for more than 60% of community emissions (2021)

# GHG Emissions Trend



- Emissions were 30% below the 2005 level in 2021
- Equivalent to 18% below the estimated 1990 level

## 2. Forecast Emissions under BAU Scenario



- Emissions forecasted to increase 5% by 2030 under BAU scenario
- Statewide goal is 40% below 1990 level by 2030
- Net zero emissions by 2045



### 3. Set GHG Reduction Goal

Jurisdiction	GHG Reduction Goal for 2030
State of California	40% below 1990 level
City of Novato	29% below 1990 level by 2035*
City of Belvedere	40% below 1990 level
Town of Corte Madera	40% below 1990 level
Town of Fairfax	Zero emissions
City of Larkspur	40% below 1990 level
County of Marin	40% below 1990 level (mitigation only)
City of Mill Valley	47% below 1990 level
Town of San Anselmo	45% below 1990 level
City of San Rafael	40% below 1990 level
City of Sausalito	40% below 1990 level
Town of Tiburon	50% below 1990 level



## 4. Identify State and Regional Agency Actions to Reduce GHG Emissions

### Zero Emission Vehicles

- All passenger vehicles and light duty trucks sold in California must be zero emission by 2035
- Medium and heavy-duty vehicles by 2045 where feasible

### Zero Emission Off-Road Equipment

- Newly manufactured small, off-road equipment must be zero emissions beginning in 2024
- Applies to lawn and garden equipment, pressure washers, and portable generators

### State Building Code

- Requires new development to install heat pump water heater or heat pump space heating system
- All other equipment must be electric ready
- Requires solar PV
- Requires EV Ready parking spaces and EV chargers

### Ban on Natural Gas Appliances

- Ban on sale and installation of small natural gas water heaters in the Bay Area in 2027
- Natural gas heating systems in 2029
- Large commercial and multi-family water heaters in 2031

# State and Regional Agency Actions to Reduce GHG Emissions

## Zero Waste

- All residents and businesses must compost organic waste
- 75% reduction in organic waste disposal by 2025 from 2014 level
- 65% of non-hazardous construction and demolition waste must be recycled

## Zero Emission Transit

- All transit agencies must use renewable diesel
- All transit agency bus purchases must be zero emission beginning in 2029
- Zero emission fleet by 2040

## Renewable Electricity

- 60% of electricity must come from renewable sources by 2030
- Zero-carbon by 2045

## Complete Streets

- Policies to ensure roadways are designed and operated to provide safe access for all users, including pedestrians, bicyclists, and transit riders
- Integrated in General Plan and Bicycle/Pedestrian Plan



## 5. Identify Local Actions to Meet Goal

- Go beyond State actions
  - Reach codes
  - Accelerate timelines
- Support State actions and markets for clean technologies
  - Outreach and education
  - Local incentives (e.g., permit streamlining, rebates, fee reduction)
  - Implementation
- Local programs
  - MCE, Safe Routes to School, EV chargers, etc.
- Address municipal fleet and facilities



# CAP Template

- First developed for San Rafael. Used by the Corte Madera, Larkspur, Belvedere, Tiburon, the County, Fairfax, San Anselmo, and Mill Valley

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## Discussion

- What should Novato's GHG reduction target be?  
Should it meet or exceed the State target for 2030?
- What do you like/don't like about the Mill Valley CAP?





## Next Steps

- For the August Sustainability Commission meeting, review:
  - ✓ Low Carbon Transportation section of the Mill Valley CAP
  - ✓ Marin Countywide Electric Vehicle Acceleration Strategy
  - ✓ Novato Bicycle/Pedestrian Plan
  - ✓ Background information
- Come prepared to propose additions and revisions to Low Carbon Transportation actions listed in the Mill Valley CAP on pages 17-22

