City of Mountain View

Decarbonization Goal Analysis

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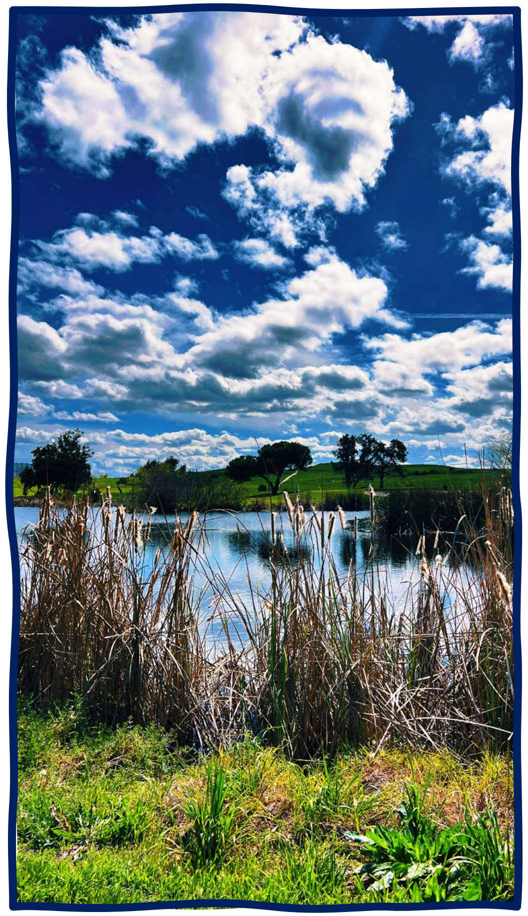
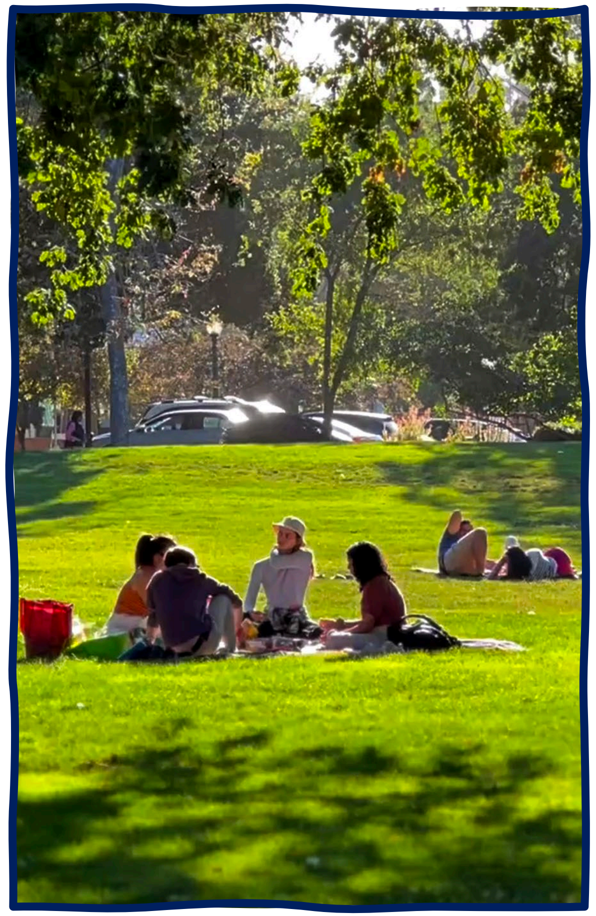
Background



- **November 2024**: the City Council approved undertaking a 2035 and 2040 decarbonization goal analysis

- **June 2025**: Preliminary information was presented to the Council Sustainability Committee (CSC) that included:
    - Projected emissions through 2045
    - Emission reductions from regional, state, and federal policies and programs
    - Legislative changes (e.g., Clean Cars Act)
    - Preliminary list of local emission-reducing actions to model

Background Continued



- **CSC Feedback**:
  - Supported the list of local actions presented
  - Population projections and corresponding emissions forecast seemed high
    - The project team has updated the population growth factors
- **Recommendations:**
  - Review the potential emissions reduction of five local actions
  - Approve the remaining five local actions to model
  - Direct the project team to develop a five-year roadmap aimed at achieving the 2045 decarbonization goal

Results of five local emissions-reduction actions

Analysis Overview

What is this analysis? The Decarbonization Goal Analysis is an emission projection model used to forecast greenhouse gas emissions (emissions) through 2045 and the impacts of climate action interventions, such as policies or programs.

How are emissions forecasted? Emissions are projected through 2045 using the City's 2022 community emissions inventory and population/employment growth.

Emissions Projection Scenarios

Business-As-Usual (BAU)

Emissions are forecasted assuming no change in climate intervention actions in the public or private sectors.

Adjusted Business-As-Usual (ABAU)

Considers the impacts of federal, state, or regional policies, and expected electric vehicle market trends.

Local Impact Analysis

Will model the impact of 10 key decarbonization actions, which may occur at the local level.

Emissions Reductions – Local Actions

Local Action Modeling

- Tonight’s presentation features initial modeling results for 5 of these local actions
- The modeled actions will assist in evaluating the effort needed to reach the City's decarbonization goal
- The project team will also present a list of the remaining five local actions that are under consideration for modeling

Results of BAU & ABAU Modeling

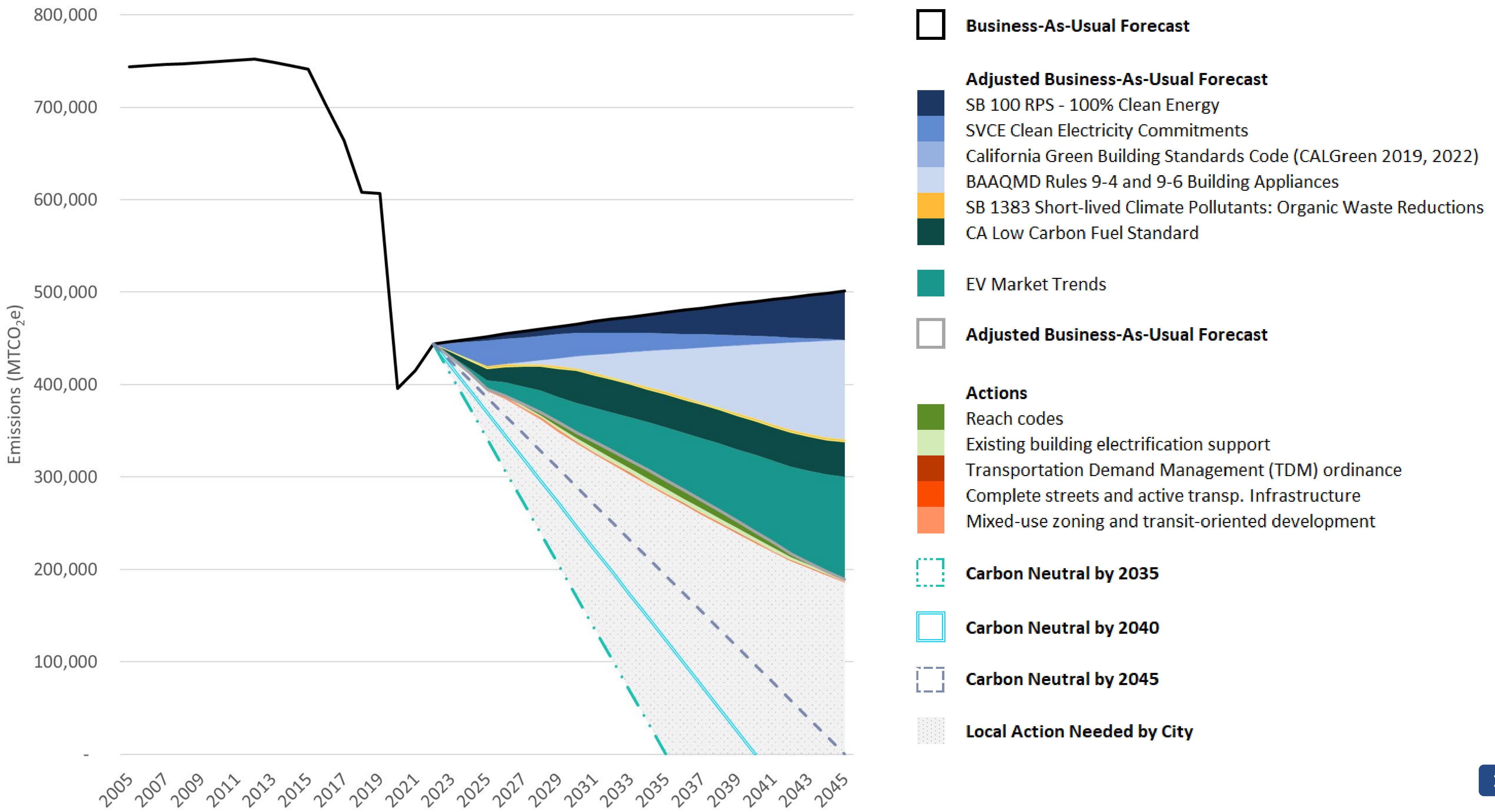
Emission Forecast and Goal Analysis	2035 MT CO_2e	2040 MT CO_2e	2045 MT CO_2e
BAU emissions	**478,112**	**489,795**	**500,980**
Electric vehicle (EV) market trends	(56,811)	(83,092)	(110,838)
Bay Area Air District Rules 9-4 and 9-6	(45,306)	(79,963)	(107,476)
CA Low Carbon Fuel Standard	(36,036)	(36,861)	(37,645)
CA Renewables Portfolio Standard	(22,884)	(37,328)	(52,753)
SVCE Clean Electricity Commitments	(17,643)	(9,140)	-
SB 1383: Short-Lived Climate Pollutants	(2,460)	(2,516)	(2,570)
CA Green Building Standards Code	(250)	(226)	(199)
Emissions reduction from all ABAU policies	*(181,392)*	*(249,126)*	*(311,480)*
Percentage reduction from BAU emissions	***37.9%***	***50.9%***	***62.2%***
ABAU emissions	**296,720**	**240,670**	**189,500**

Together, these policies **reduce BAU emissions 62.2% in 2045**

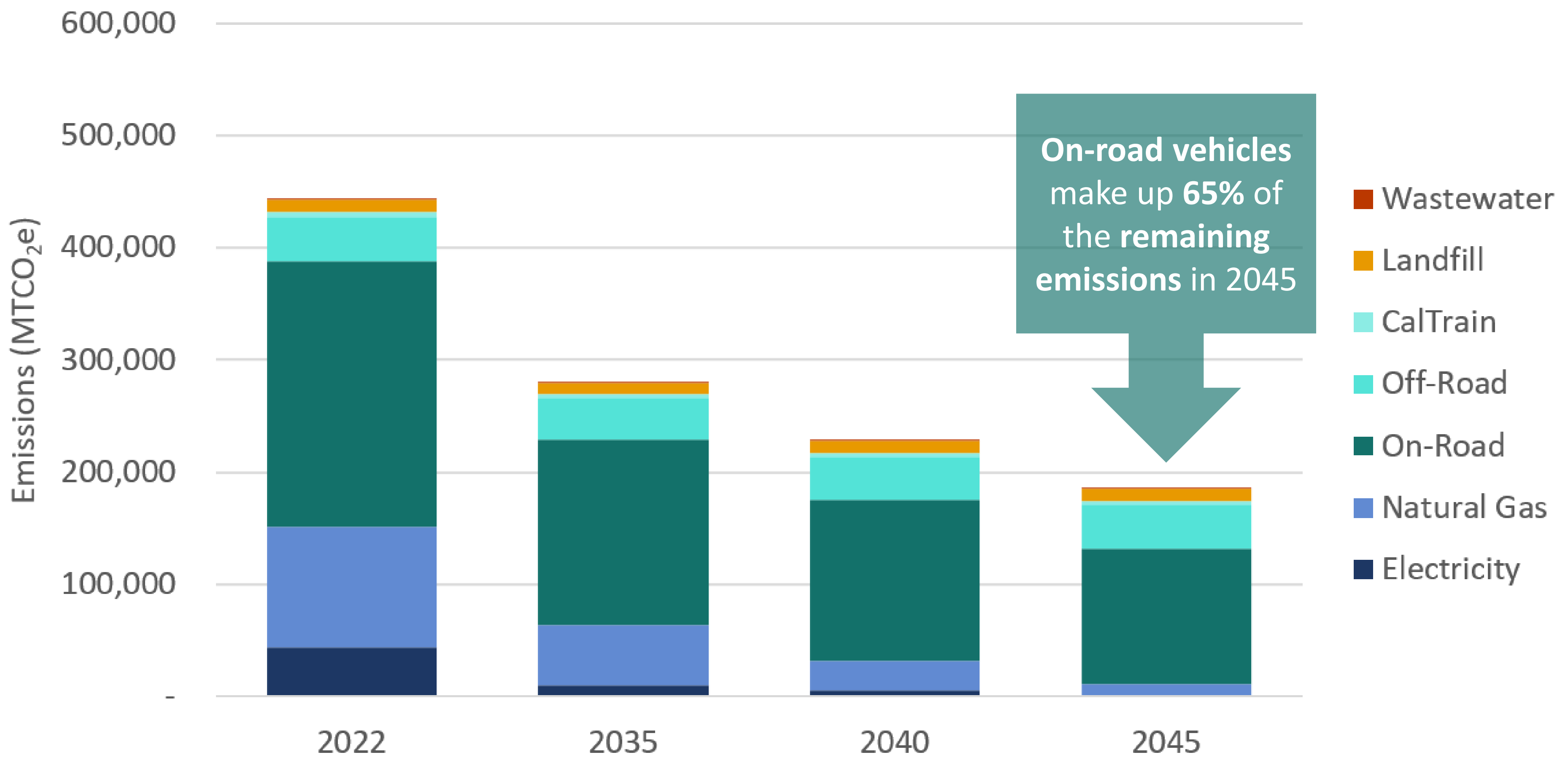
Results of the Modeling of Five Local Actions

Mountain View Emission Forecast & Goal Analysis	2035 MT CO_2e	2040 MT CO_2e	2045 MT CO_2e
BAU emissions	**478,112**	**489,795**	**500,980**
ABAU emissions	**296,720**	**240,670**	**189,500**
Mountain View Reach codes (adopted in September)	(9,233)	(6,637)	-
Outreach, education, and incentives to encourage building electrification	(5,016)	(4,037)	(2,373)
Transportation Demand Management ordinance (underway)	(175)	(199)	(190)
Active Transportation Plan (underway)	(282)	(229)	(173)
Implement mixed-use zoning & transit-oriented development in existing and in-progress plans	(1,506)	(1,224)	(926)
Emissions reduction impact of all five modeled local actions	*(16,212)*	*(12,326)*	*(3,662)*
Percentage reduction in the emissions gap	***5.5%***	***5.1%***	***1.9%***
Remaining emissions	**280,508**	**228,344**	**185,838**

Modeled Emissions and Emissions Reductions



Remaining Emissions Sources



Approve the remaining five local emissions-reduction actions

Proposed Local Actions to Model

Reducing Emissions from Gas-Powered Passenger Vehicles

1. Expand EV charging infrastructure at existing multifamily properties through policies and programs
2. Outreach, marketing, and education to encourage the adoption of EVs
3. Continue to implement parking management strategies that eliminate parking requirements for affordable and residential developments within various Precise Plan areas

Proposed Local Actions to Model Continued

Reducing Natural Gas from Buildings

4 Time-of-sale requirements that could be explored in the next five years, which involve requiring an escrow deposit for energy improvements during a property sale, like Berkeley's Building Emissions Savings Ordinance

Reducing Landfilled Waste

5 Implement the City's Zero Waste Plan

Direct the project team to develop a five-year decarbonization roadmap focused on achieving the 2045 decarbonization goal

Five-Year Roadmap

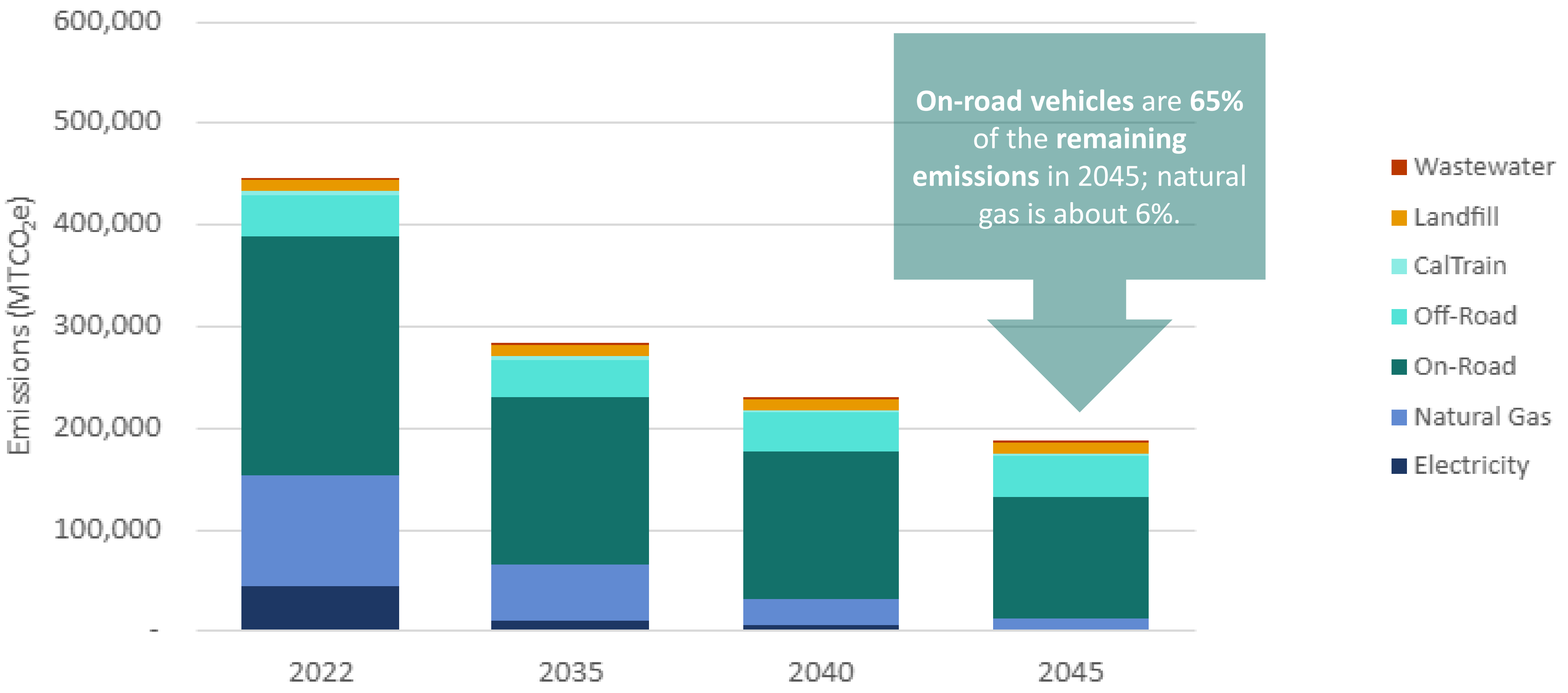
- To reach its decarbonization goal, the City will need to dedicate **significant resources**, take **bold legislative action**, and engage in **ambitious regional collaboration**
- The roadmap will be an **actionable five-year plan** that identifies high-priority next steps to move the City towards its **decarbonization goal**. The roadmap will include both modeled and un-modeled local actions.
- Staff will **update the modeling as changes occur** in other sectors and will continue to monitor the feasibility of actions every five years

2045 Goal Remains Ambitious

- Local actions modeled thus far achieve a **2% reduction** of the 189,500 remaining emissions in 2045
  - Additional modeled actions are expected to yield similar results
  - Accelerating the City's decarbonization goal to either 2035 or 2040 will be challenging

- The goal of 2045 remains both ambitious and pragmatic
  - Allows time to adapt to the changing legislative landscape
  - Ensures a feasible and equitable approach to meeting the City's goal

Remaining Emissions Sources



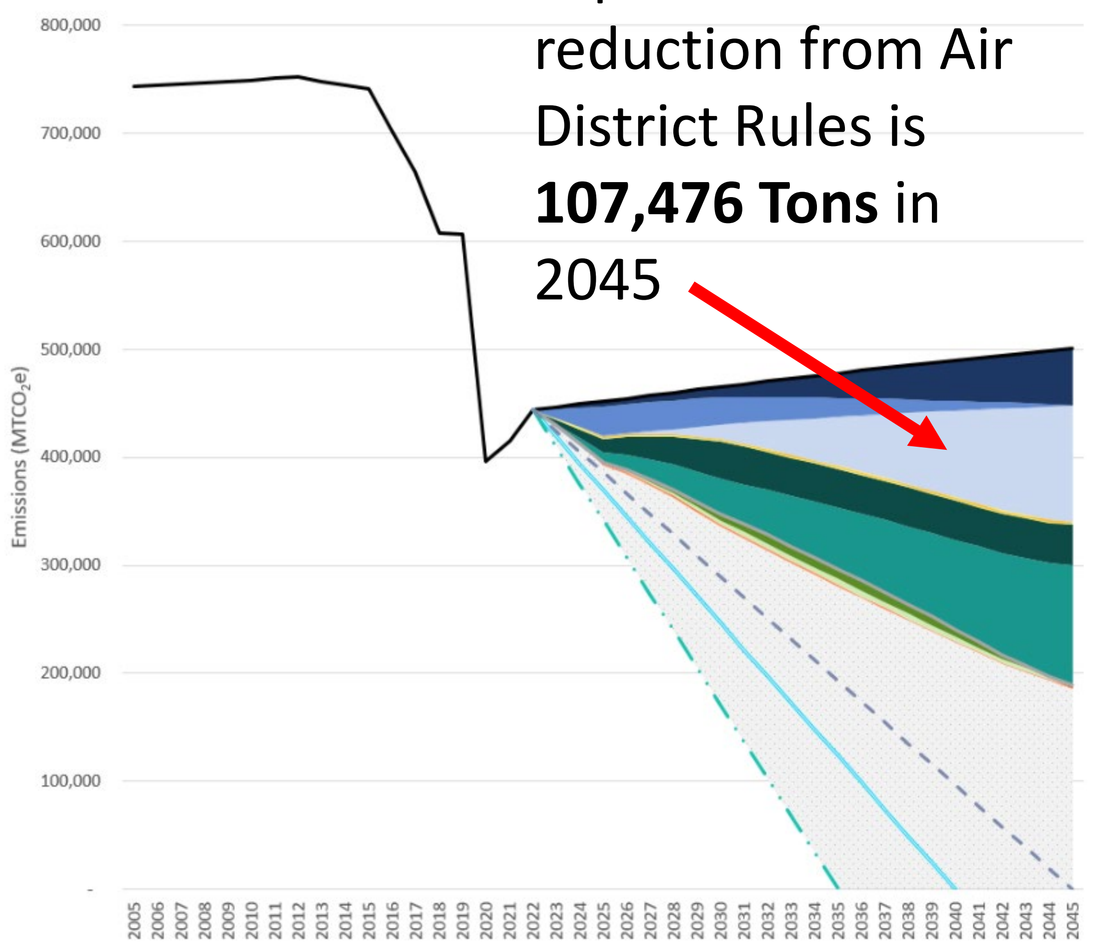
Impacts of Regional, State, and Federal Actions

- Local actions remain valuable to addressing climate change
- A volatile environment for emissions-reducing legislation is creating uncertainty:
  - Potential delays in prohibiting the sale of gas-fired space and water heating equipment in the Bay Area
  - Moratorium on Reach Codes
  - Reversal of the Clean Cars Act
  - Sunset of tax incentives for electric vehicles and electric building equipment

Air District Rules Prohibiting the Sale of Gas-Fired Equipment

- Bay Area Air District 9-4 and 9-6 Rules would prohibit the sale of gas-fired water and space heating equipment in the Bay Area starting in 2027
- Concept Paper for potential amendments was released October 2025 to address affordability and implementation challenges.
- Staff is preparing comments on proposed amendments to encourage implementation of the rules and support equitable decarbonization. If amendments are adopted, the modeling will be updated.

Expected reduction from Air District Rules is **107,476 Tons** in 2045



Moratorium on Reach Code Adoption

- AB 130 prohibits cities and counties from adopting residential reach codes for the next six years
- If Air District rules are delayed, Mountain View's Reach Codes can provide over 30,000 tons of reductions in 2045

City's Response to Moratorium on Reach Codes

- Sent a **letter of non-support** to the state
- Accelerated the adoption of **2026 Reach Codes** before AB 130 takes effect
    - Encourages the replacement or new installation of air conditioners to include heat pump technology
    - Requires electrical infrastructure if installing gas-fired equipment
- Became a Steering Committee member of the newly formed **Local Government Climate Policy Alliance** that includes other cities from across the state
    - Monitors legislative changes and seeks to take action where appropriate to advocate, influence, or draft legislation to further local climate goals

Reversal of the Clean Cars Act

- This year, the Environmental Protection Agency revoked California's waiver to implement the Clean Cars Act
- Clean Cars would have required all new passenger cars sold in California to be electric vehicles. This was projected to reduce 263,595 tons of emissions in Mountain View
- If still in place, the gap would be 34,370 tons of emissions to reduce locally instead of the current gap of 189,500 tons

Preliminary List for Five-Year Decarbonization Roadmap

Transportation Actions	Incl. in Model
Transportation Demand Management (TDM) Ordinance	☑
Employer TDM Requirements	
Expand and Electrify Mountain View's Shuttle Service	
Expand Multifamily EV Charging Infrastructure	☑
Outreach and marketing for EVs	☑
Outreach and incentives for E-Bikes and E-Scooters	
Mobility hubs and micro-mobility opportunities	
Active Transportation Plan	☑
Mixed-Use Zoning and Transit-Oriented Development	☑
Continue to implement parking management strategies	☑
Zero Emission Delivery Services Programs	

Preliminary List for Five-Year Decarbonization Roadmap

Buildings Actions	Incl. in Model?
Implement previously adopted Reach Codes	☑
Explore Time-of-Sale Requirements	☑
Outreach and marketing for building electrification	☑
Encourage participation in carbon-free electricity	
Adopt a Goal for the End of Natural Gas Flow	
Evaluate Electrical Grid Capacity	
Explore adopting Building Performance Standards	

Preliminary List for Five-Year Decarbonization Roadmap

Zero Waste Actions	Incl. in Model?
Implement the City's Zero Waste Plan	☑

Ecosystems Actions	Incl. in Model?
Enhance the urban forest	
Implement natural areas conservation and restoration	

Cross-cutting Actions	Incl. in Model?
Advocacy and legislation to promote local emissions reductions	
Local and regional collaboration and partnerships	
Explore financing and funding options	

Note: **Bolded actions** have already been modeled.

Recommendation

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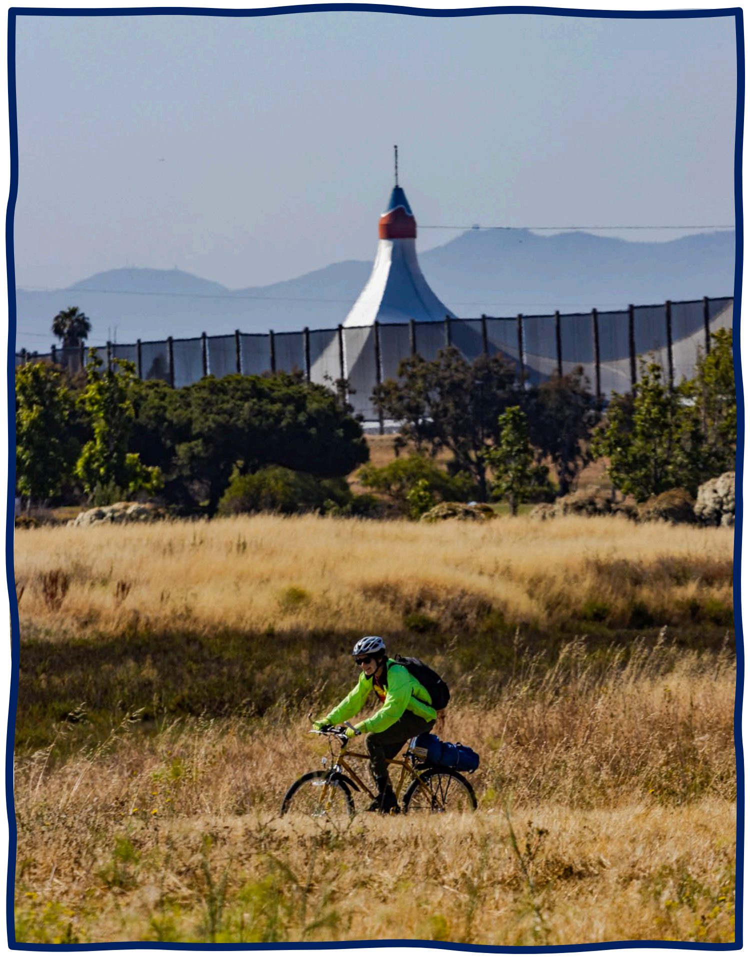

- Review the potential emissions reduction of five local actions:
  - Reach Codes
  - Outreach, education, and incentives to encourage building electrification
  - Transportation Demand Management Ordinance
  - Active Transportation Plan
  - Mixed-use zoning and transit-oriented development

Recommendation Continued

- Approve the remaining five local actions to model:
    - Expand access to EV charging at existing multifamily properties
    - Outreach, marketing and education to purchase and use EVs
    - Continued implementation of parking management strategies
    - Explore time-of-sale requirements to encourage building electrification
    - Continued implementation of the City's Zero Waste Plan
- Direct the project team to develop a five-year roadmap aimed at achieving the 2045 decarbonization goal instead of a 2035 or 2040 goal year

Next Steps

- Project team will:
  - Present the **Climate Vulnerability Assessment** to the CSC on **December 1** for feedback and direction
  - Model the remaining five local actions that will be presented to the CSC in early 2026
  - Develop the five-year roadmap to be presented to the CSC before being brought to the City Council for approval in 2026

Thank you