

# Marin County's Building Electrification Roadmap

OUR COMMUNITY'S TRANSITION TO AN ALL-ELECTRIC FUTURE



# Agenda

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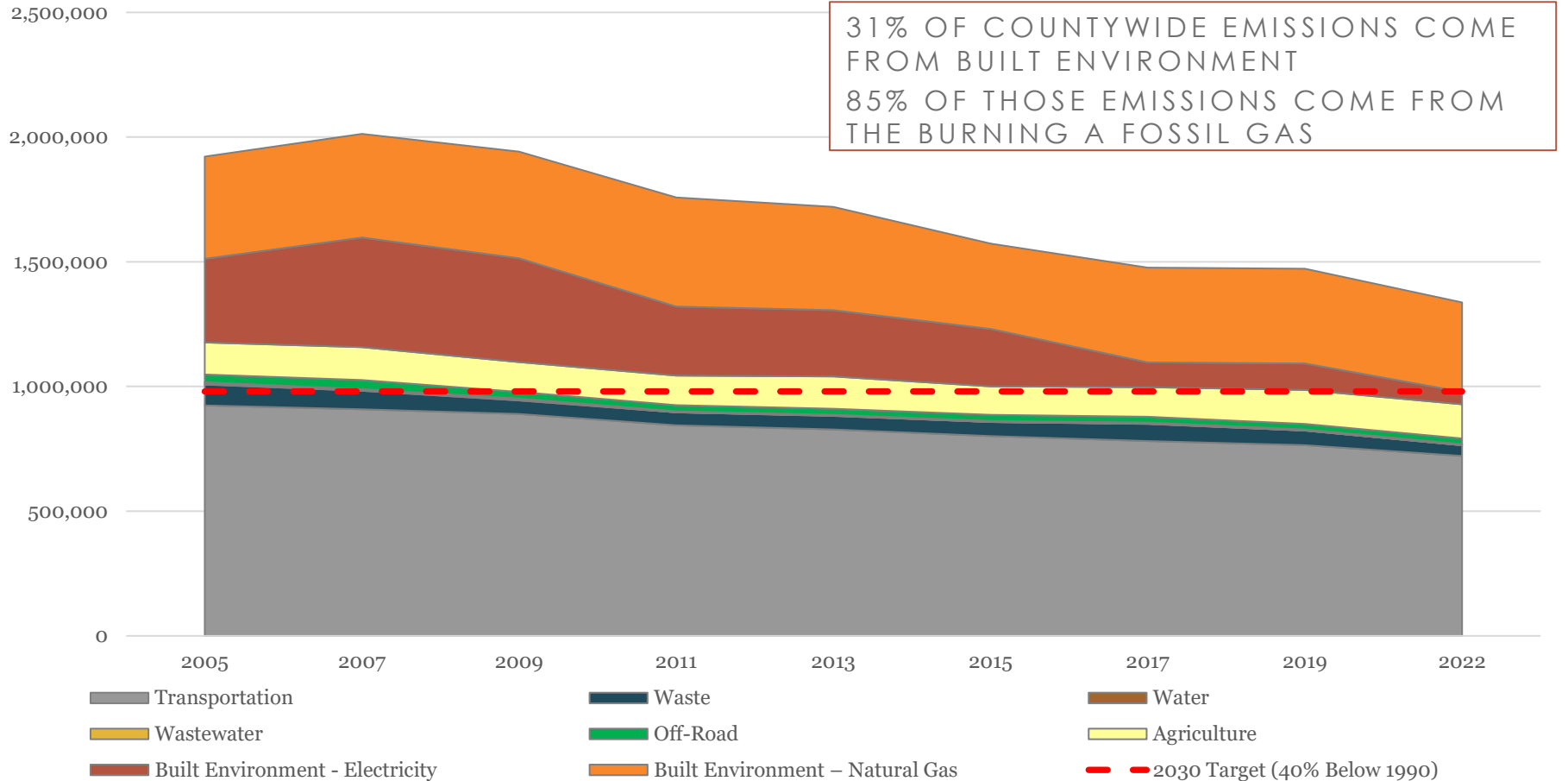
- Overview of 2022 Communitywide and Municipal GHG Emissions Inventories
- Overview of Marin County's Electrification Roadmap
- Questions

# Why an Electrification Roadmap?

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- 2022 Marin Civil Grand Jury report
- Health and Safety
  - Gas-burning appliances and their continued release of harmful pollutants within and outside the home can increase the risk of respiratory infection, asthma, heart disease, and death.
- Resiliency and Comfort
  - Coupled with solar, battery storage, and/or improved insulation, all-electric buildings improve the ability to adapt to climate and natural disaster events.
  - In contrast to the electrical grid, the gas grid can take longer to restore after an earthquake.
- Climate and Policy Mandates
  - Local Climate Action Plans - Gas is responsible for 85% of Marin's building emissions. If we are going to reach our targets, we must address gas burning appliances in the built environment.
  - Air District and state mandates phasing out gas burning appliances.

# Marin Countywide Emissions 2005 - 2022



# Regional and State Mandates

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- Bay Area Air Quality Management District Zero NOx Appliance Rules (ADOPTED)
  - **2027:** Only zero NOx **water heaters** can be sold or installed in the Bay Area
  - **2029:** Only zero NOx **furnaces** can be sold or installed in the Bay Area
  - **2031:** Only zero NOx **large commercial water heaters** can be sold or installed in the Bay Area
  - Rules do not apply to gas stoves or gas fireplace inserts.
- California Air Resources Board Appliance Rules (IN DEVELOPMENT)
  - Will also apply to water heaters and furnaces.
  - Timing to be determined.



# Roadmap Development

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20+ Steering  
Committee Meetings



7.5 – 10 Volunteer  
Hours/person



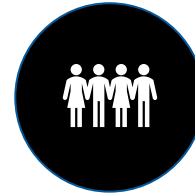
Three Workshops  
(42, 36, 26 attendees)



Community-based  
Organizations (DACs,  
Aging-in-Place,  
Environmental)



Building Community  
(Realtors, Contractors,  
Architects, Developers)



Local/Regional  
Government Staff



Climate  
Commissioners



Utilities (PG&E, MCE)



Community Survey  
of 10 Key Actions  
385 Respondents

# Roadmap Recommended Actions

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- Create a “Central Hub” for easy access to electrification information and resources.
- Implement advanced green building and electrification codes.
- Implement permit streamlining and incentives.
- Provide low-cost financing programs.
- Develop the building energy and electrification workforce pipeline.
- Work with PG&E to improve infrastructure planning and grid interconnections.
- Implement actions in partnership with community-based organizations.
- Implement the Marin Countywide EV Acceleration Strategy.
- Implement a time of listing energy assessment (TLEA) policy.
- Pilot a neighborhood-scale electrification and gas infrastructure decommissioning project.



# Progress to Date

- New FY24-25 allocation of funding for the Electrify Marin rebate program.
- New online information resource hub.
- Green building code update process to begin in late 2024/early 2025.
- Permit streamlining research for electrification measures has begun.
- Electrification Career Fair in September.
- Voluntary Home Energy Score program underway with Realtor specific trainings.
- State low-interest energy efficiency and electrification financing available now.
- Virtual Marin Green Home Tour on October 24<sup>th</sup>.

## Electrify Marin

Your resource hub for building electrification and energy efficiency.

### How do I?

Get answers to your electrification questions.



#### Get rebates

Get rebates for your electrification project.



#### Get started on home electrification

Steps to move away from fossil fuel use in your home.



#### Learn about electric transportation

Learn about electric vehicles, vehicle charging, and micromobility.



#### Electrify 101

Learn about electrification project types, case studies, planning for your home energy future.



#### Add solar to your home

Learn about solar and battery storage for your home.



#### Zero emissions landscaping

Learn about zero emissions landscaping.



Thank You

