



Marin's Transition to an All-electric Future

Workshop Series Meeting 1 of 2 (3)

Marin County
Community Development Agency
August 2, 2023

—
Welcome



Brian Reyes

Christine Puccini



Agenda





House Rules





Activity 1

Roundtable Discussion (25 Minutes)

Discuss and Share



What did you **LEARN OR UNLEARN?**



Did you have an **"AHA!"** moment?

2

What are the **TOP 2** most interesting topics, ideas, or things you heard today?

We Agree

The cost of failing to act is great.

The County, Towns, Cities, and constituents have shared interests in climate change

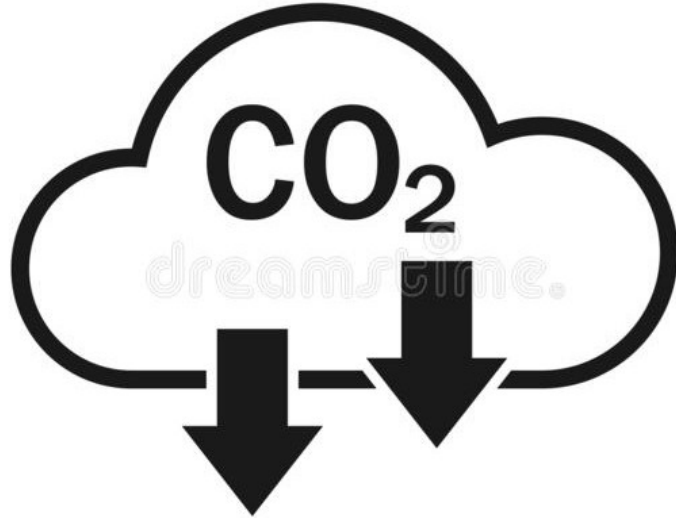


What's so “NATURAL” about “Natural Gas”?!?!



Why Electrification and Energy Efficiency?

1. Save Energy and \$
2. One of the few tangible tools to fight climate change
 1. Reduce our harm (GHG reduction)
 2. Adapt to Heat and Poor Air Quality
3. Get ahead of Regulatory, Market, and Technological Trends



2030: 40-60% reduction

2045: Carbon Neutral



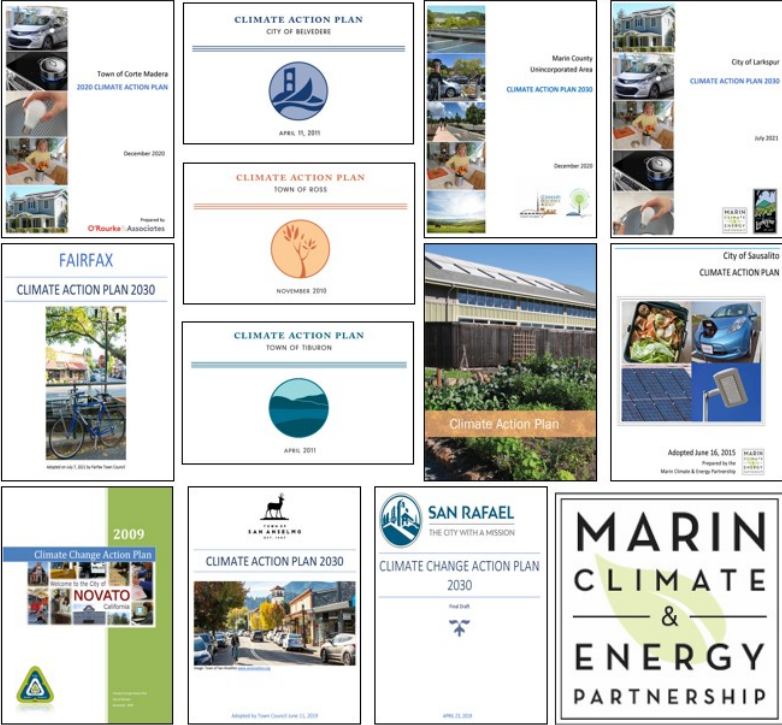
Over 80%

Of Building Emissions comes from
Gas

me.



Climate Action Plan Key Actions





Policy and Requirements

State Policy



California's Trends

- [SB 32](#) reduce emissions 40% below 1990 levels by 2030.
- [AB 1279](#) achieving net zero GHG emissions by 2045.
- [SB 100](#) decarbonizing the electric sector through renewables by 60% by 2030 and 100% by 2045.
- As part of its [State Implementation Plan \(SIP\)](#), CARB will require [all newly purchased space and water heater appliances](#) be zero-emission by 2030
- [Executive Order N-79-20](#), 100% of new cars and light trucks sold in California will be zero-emissions by 2035
- State (CEC) Energy Code Requirements aka Title 24, Part 6
 - 2022: Requires a Space or Water Heat Pump Water Heater
 - 2025: Increase Efficiency Requirements, Increase EV Infrastructure, Prohibit Combustion Appliances (?)
- 2022: CPUC ended gas line extension subsidies, making piping gas to buildings expensive



Regional and Local Policy



BAAQMD Rule 9-4 and 9-6 Amended 3/16/23

Four Year Phased Implementation




- 2027 – No Residential Gas Water Heaters sold or installed
- 2029 – No Residential Gas Space Heaters sold or installed
- (2030 – State SIP = No Residential Space or Water Heaters sold)
- 2031 – No Large Commercial Gas Water Heaters sold or installed
- [BAAQMD Factsheet](#)



2022 Model Reach Code Development

- 1. Convened Community**
- 2. Prototyped** for County and 11 other jurisdictions
- 3. Civil Grand Jury Report**
most jurisdictions agreed a coordinated countywide approach to electrification is needed
- 4. Technical Solutions to electrification are already here,** but our will to act, systems, and capacity to implement needs to rapidly evolve

Countywide Green Building Requirements

Jurisdiction	New Construction All-Electric	EV Infrastructure Reach	Single-Family Renovations Energy Reach
Marin County			
Fairfax			
Tiburon (pending)			
San Rafael			Considering
Corte Madera			
San Anselmo			
Sausalito	Considering	None	
Larkspur			
Ross			
Mill Valley	None	None	
Novato			
Belvedere			



Incentives and Rebates



Countywide Building Electrification Plan

A Roadmap to Implement Our
Transition Towards Carbon
Neutrality



Countywide Building Electrification Plan: A Roadmap

Vision.Objective

To develop a countywide whole building electrification plan that is implementable for Cities and Towns by December 2023 (with flexibility to push to January/February 2024)

Goal

To crowdsource the community to help develop an implementable countywide whole building electrification plan that tracks with each jurisdiction's climate, equity, and/or adaptation goals.



What's in a Typical Electrification Plan?



Stakeholder Engagement



Building Inventory and Equity Analysis



Actions and Strategies

Comprehensive Policies
(Stick) and Programs (Carrots)
Prioritized
Time-Bound



Recommended Next Steps to Implementation

2023/2024 Plan Development Timeline



Workshop Participants, Your Deliverable

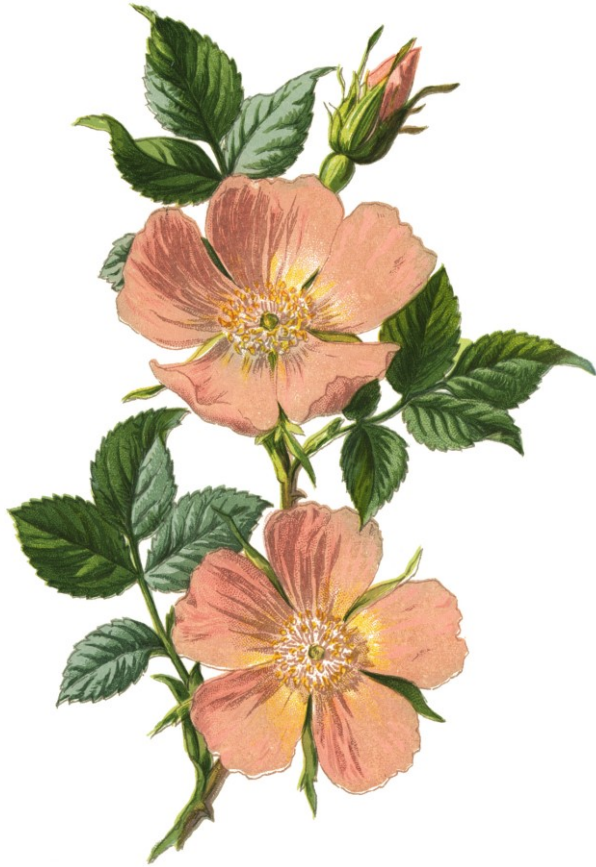
"By October 2023, provide feedback, insight, and suggestions that will shape the countywide building electrification plan/roadmap"





Break (5 Minutes)





DOG-ROSE.

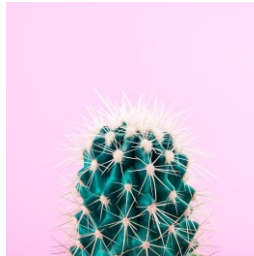
Activity 2

Roses, Buds, Thorns (45 Minutes)

Read (10 min.)
Discuss (10 min)
Record (5 min)
Report Out (15 min)



(Roses) What would you want to be emulated in our roadmap?



(Thorns) What are non-starters for you?



(Buds) What are ideas that can be blossomed?



Group Share

(2-3 min. per group)



Reflection and Needs (Live Polling)



Next Steps

- **~1-2 Weeks:** Building Electrification Website Resource Page Launch and Recap of Workshop 1
- **~3-4 Weeks:** Building Inventory and Equity Analysis Results
- **9/27/2023** Workshop #2
- **10/25/2023** Workshop #3
- **End of November 2023:** Feedback and Draft Plan
- **December '23/January '24:** Final Plan