

Electrification Roadmap Brainstorm: Single Family Home Owners

City of Alameda

April 4, 2022



Agenda

- Introduce building electrification and the city's roadmap concept
- Explore challenges and concerns single family home owners have towards energy efficiency and building electrification
- Explore what policy levers or opportunities can we use to reduce barrier to energy efficiency and building electrification



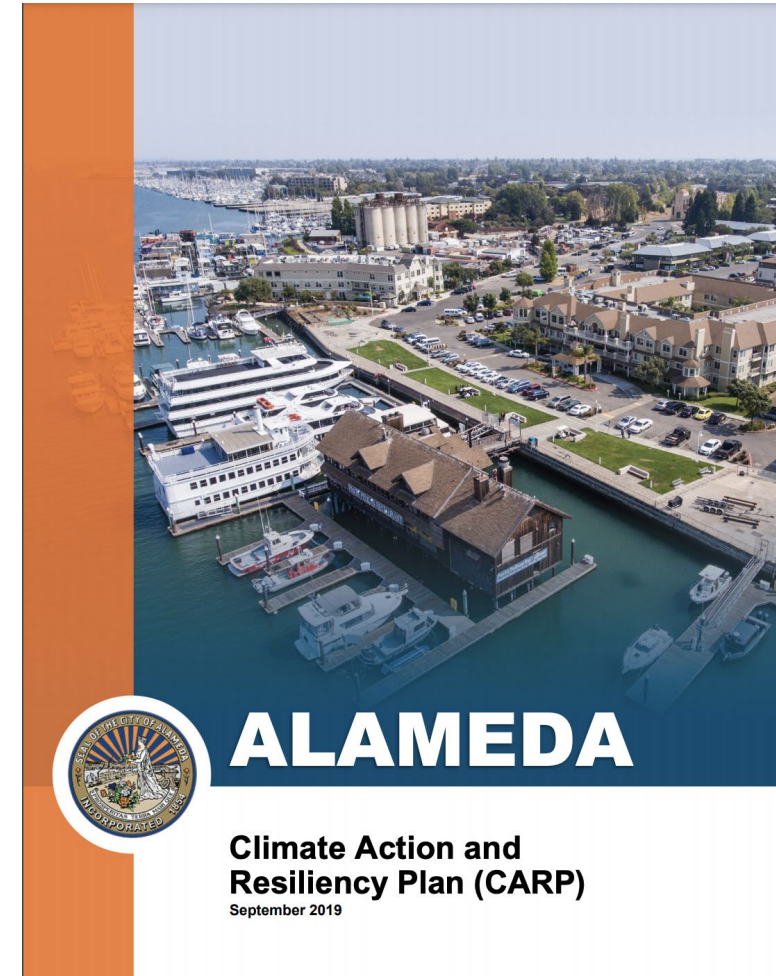
Welcome & Introduction

- Name
- How long have you been a resident in Alameda?
- What motivated you to come today?
- What gas appliances do you have in your home?



Alameda Climate Action and Resiliency Plan (CARP)

- Reduce emissions by 50% below 2005 levels by 2030
- Achieve net zero emissions as soon as possible
- Climate adaptation
 - flooding, sea level and groundwater rise, drought, extreme heat, hazardous air quality, and earthquakes/liquefaction.



ALAMEDA

**Climate Action and
Resiliency Plan (CARP)**
September 2019

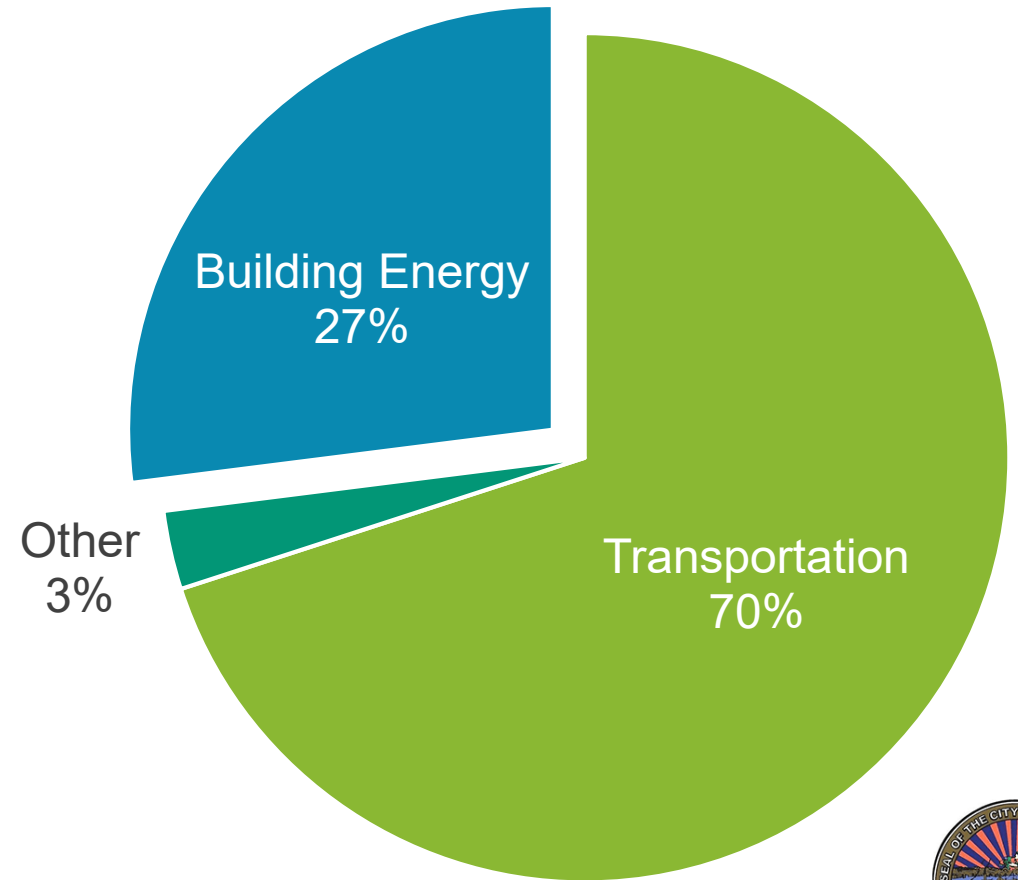
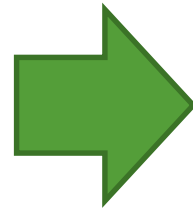


Alameda Equity Goals

- 2019 Climate Action and Resiliency Plan
 - Be equitable, inclusive and community-driven
 - Address disproportionate impacts that climate change may have on vulnerable, socioeconomically disadvantaged populations
- 2019 Climate Emergency Declaration
 - Just transition with actions rooted in equity, self-determination, culture, tradition, deep democracy and the right to clean, healthy and adequate air, water, land, food, education and shelter



Alameda's Emissions



Electrification Pathway

Decarbonize
Electric Grid

Energy
Efficiency

Electrify
Buildings



Other Steps for a Safe, Green, Healthy Home

Solar and/or batteries

Great opportunity to plan for electrification and increase resiliency

Seismic retrofit

Protect your investments and reduce damage to your home or business during an earthquake

Electric vehicle and charging

Reduce pollution from transportation & lifetime cost of driving

Mold, asbestos, and lead paint removal

Promote health and safety in the home



Energy Efficiency and Weatherization



Wall, Attic, and Rase Floor Insulation



Air Sealing and Weather-Stripping



Window Replacement



Upgrade to LED bulbs



Duct Sealing, New Ducts, and Duct Insulation



Water Heater Blanket



Hot Water Pipe Insulation

Electrification Technology



Heat pump water heaters



Heat pump heating/cooling



Electric dryer





Induction Stove



Low Cost and Interim Electrification Options



Electrification Rebates and Incentives

	HPWH	Space Heating/ Cooling	Induction Stove	Electric Panel Upgrade	Electric Dryer
 ALAMEDA MUNICIPAL POWER	\$1,500	Coming 2022	Coming 2022	\$2,500	\$100
 TECH CLEAN CALIFORNIA <i>Can combine with AMP</i>	\$1,500 - \$2,300	\$3,000	-	\$300	-

- Learn more and find a contractor at www.switchison.org/
- Visit www.bayren.org/ for energy efficiency rebates and home energy audit



Benefits of Electrifying

Health

Safety

Climate

Accomplishment & Plans

2019

Limit natural gas infrastructure in new residential projects on city-owned land

2021

“Electrifying Existing Residential Buildings in Alameda” report

2020

Require all new development citywide to be all electric

2022

Existing Building Electrification Roadmap + Policies



Equitable Electrification Roadmap

What: A policy roadmap centered in equity that outlines stakeholders, phases and approaches to electrify all existing buildings in Alameda.

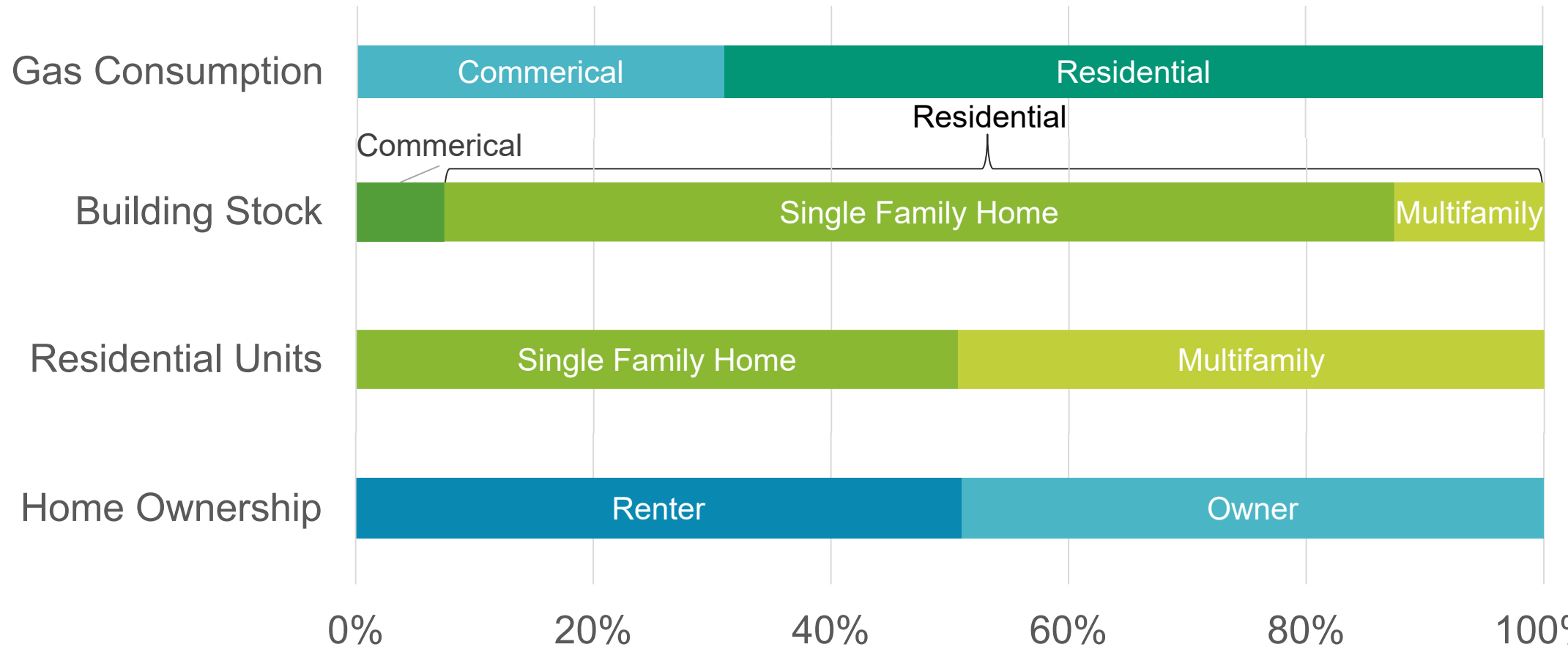
Why: To ensure that the electrification process is equitable and beneficial to the community, especially frontline communities.

How: Workshop series to co-create solutions and integrate community knowledge and feedback into the roadmap.

Next Steps: We will bring a draft roadmap back to the community during the Draft Roadmap + Ordinance Review Workshop



Building Stock in Alameda



Building Vintage

Year Built	Single Family Homes	Multifamily
Unknown	483	571
Pre-1978	10,421	1,782
1978-1991	2,654	20
1992-2010	1,426	8
2011-	104	1
Total	15,088	2,382



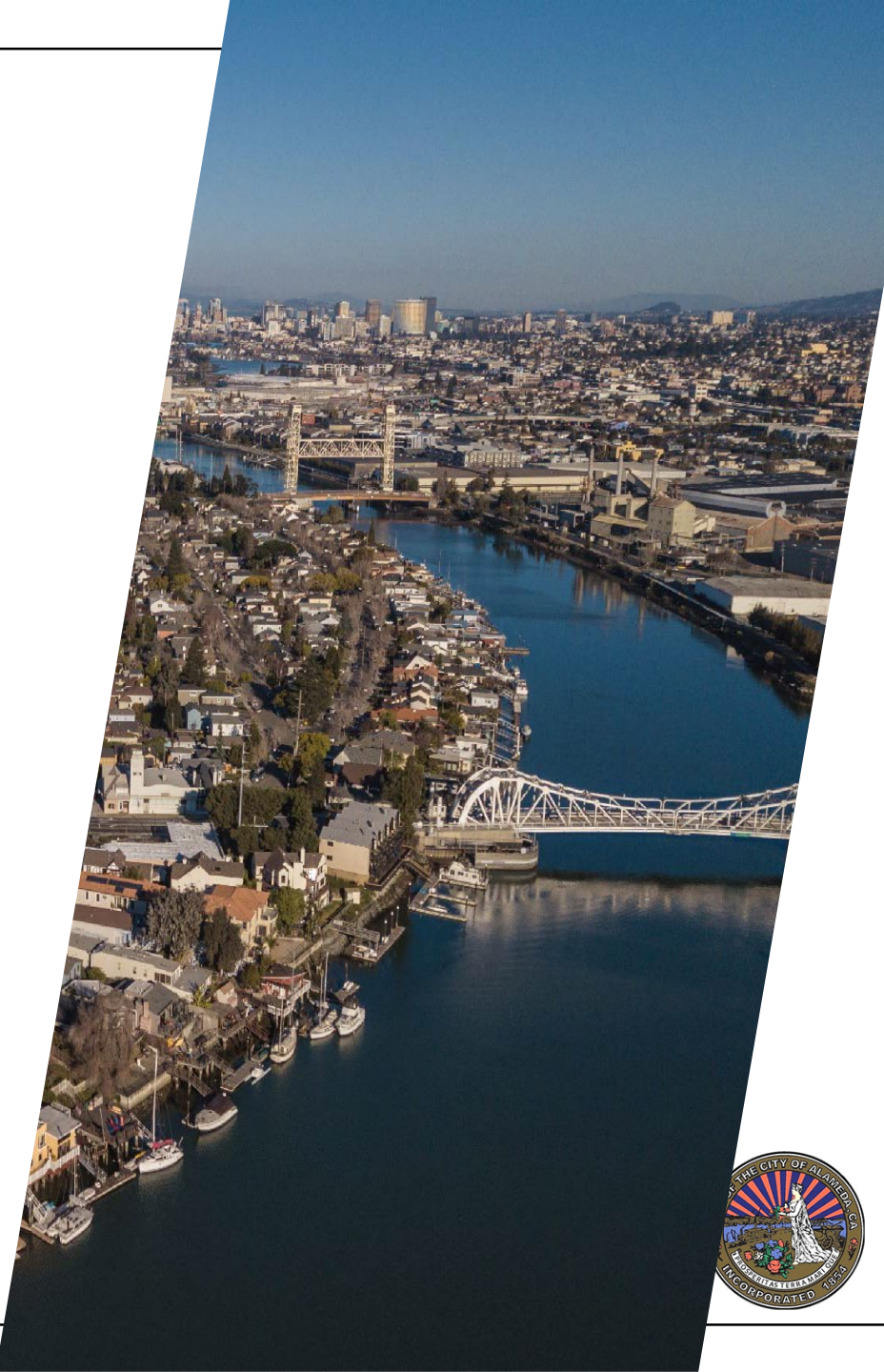
Four Elements of Electrification Roadmap

Alameda
Municipal
Power

Policymaking

Financing

Education &
Outreach



Primary Policy Levers

Renovation/ Remodel

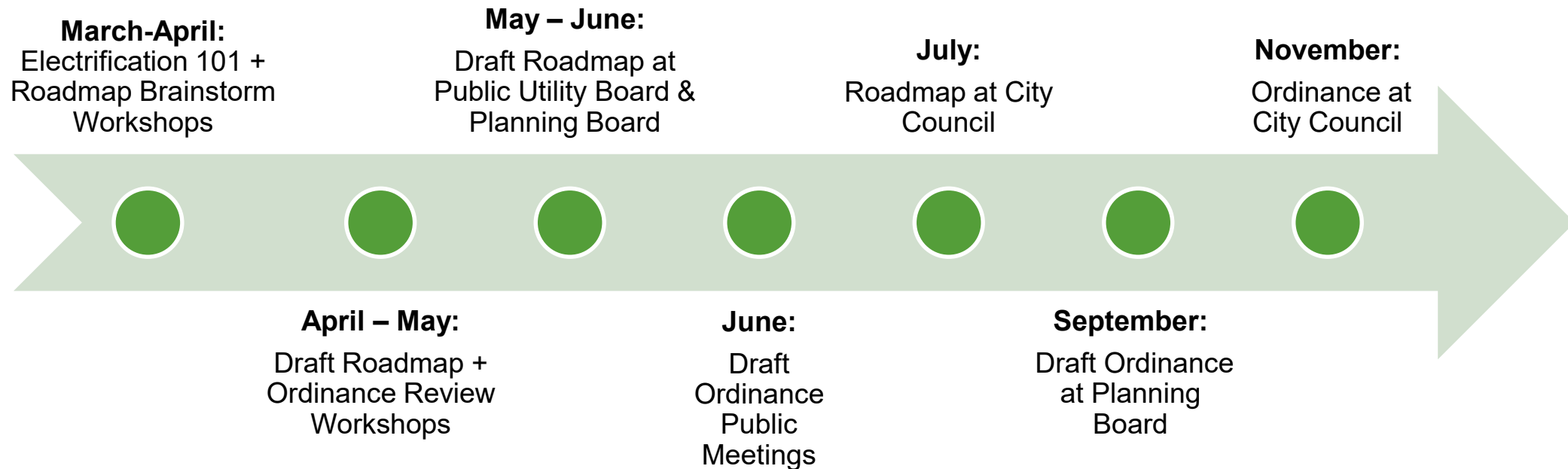
Point of Sale

Replacement at Burnout

Deadline to Electrify



Roadmap Development 2022 Timeline



Interactive Session

- Jamboard:
 - [Tinyurl.com/SFHRoadmap](https://www.tinyurl.com/SFHRoadmap)
- Five Questions:
 1. Feedback on Roadmap Principals
 2. What excites you about electrification?
 3. What are your challenges and needs around building electrification?
 4. What are some things that can be done to make building electrification more equitable?
 5. Who is not here today that needs to be part of this process? How can we involve them?



Workshop Series

- March 16: Electrification 101 @ West End Library
- March 28: Roadmap Brainstorm for Renters
- March 30: Roadmap Brainstorm for Property Owners & Management
- April 4: Roadmap Brainstorm for Single Family Home Owners
- April 5-15: Interactive brainstorming poster board @ Library
- April 6: Electrification 101 @ Main Library
- April 27: Draft Roadmap + Ordinance (virtual)
- May 4: Draft Roadmap + Ordinance Review @ Main Library

Register at: www.alamedaca.gov/buildingelectrification



Thank you and Next Steps

- Visit www.alamedaca.gov/BuildingElectrification
- Take our survey!
- Attend more workshops and give your input to the roadmap



Roadmap Principles

- Everyone, especially low to moderate income households, should be able to affordably switch to modern electric equipment (do good, not harm)
- Electrification policy should also support housing and anti-displacement policy
- The electrification process should be as simple and seamless and possible
- Our timelines should be fast but be realistic about challenges and other priorities

