

# **Equitable Building Decarbonization Plan**

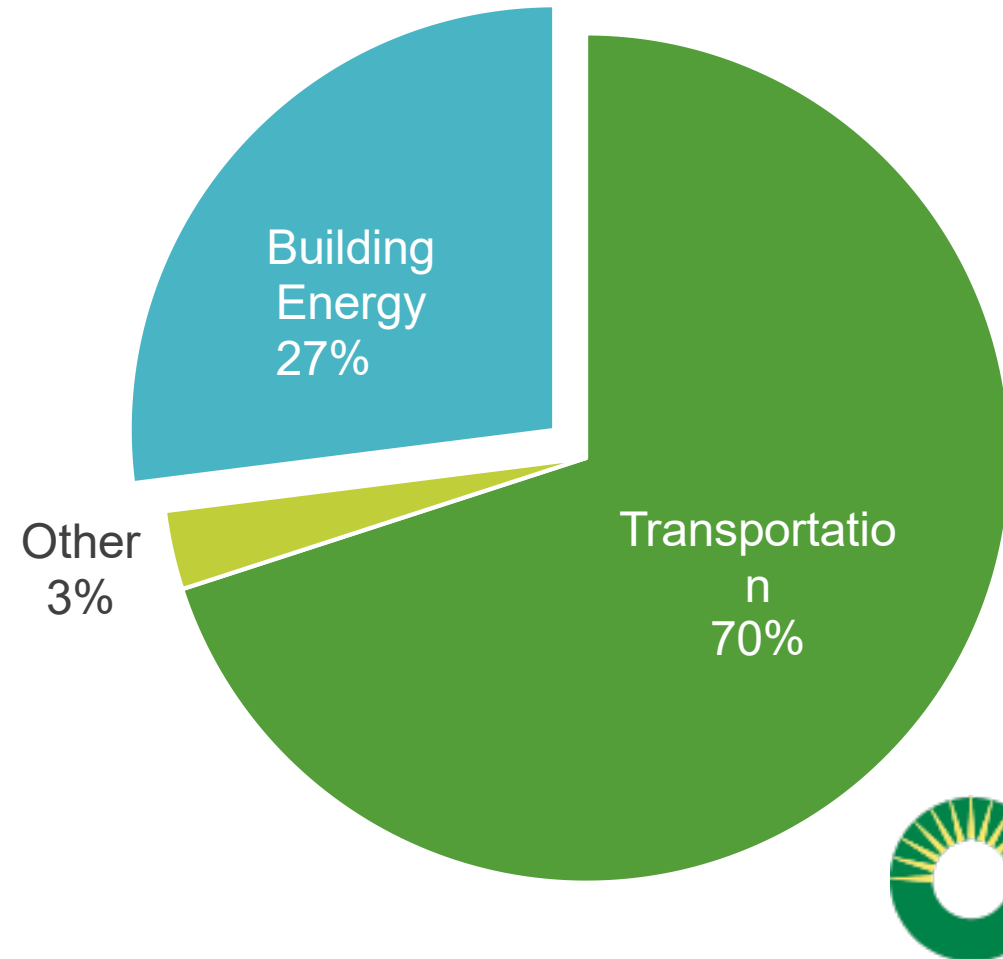
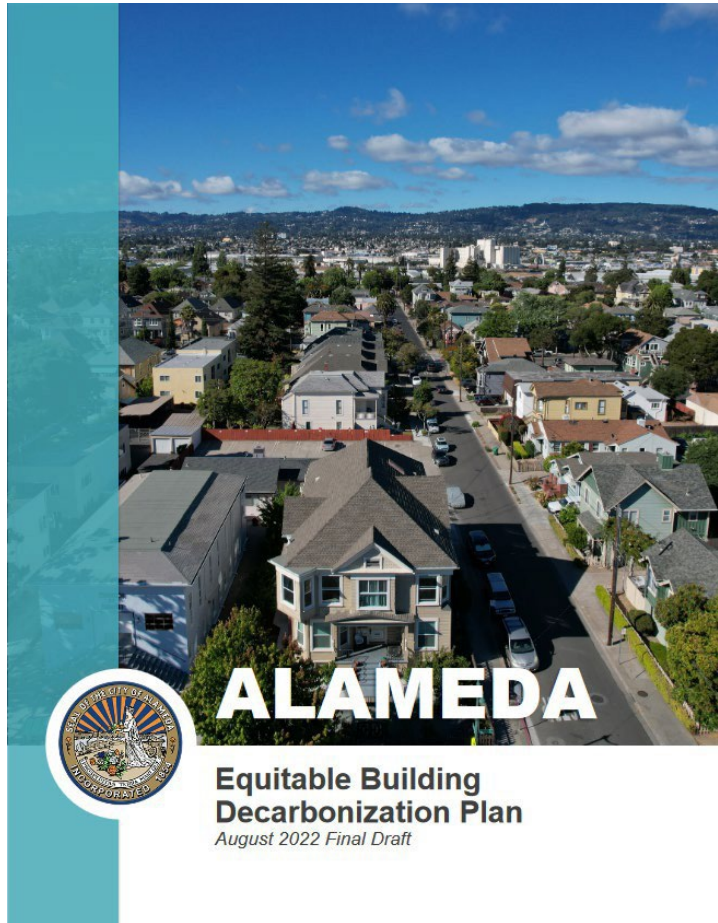
City Council  
January 17, 2023



**ALAMEDA  
MUNICIPAL POWER**



# Equitable Building Decarbonization Plan



# Decarbonization Pathway

Decarbonize  
Electric Grid

Energy  
Efficiency

Electrify  
Buildings



# Opportunities

- Improved health and safety
- Reduced emissions and air pollution
- Lower energy bills
- Build in energy resilience with solar + batteries
- Related upgrades for safe, green and healthy buildings
  - Mold, asbestos, lead paint removal
  - Seismic and flood retrofits
  - Solar and battery storage
  - EV charging
- Good paying jobs



# Equity Principles

- Everyone, especially low to moderate income households, should be able to affordably switch to modern electric equipment, reducing their energy burden.
- Ensure building decarbonization policies and programs do not have disproportionate impacts on low income households and communities of color.
- Electrification policy should also support healthy, safe, affordable housing and quality, good paying jobs.
- The electrification process should be as simple and seamless as possible.
- We should act ambitiously and expeditiously while being also realistic about the challenges we face in transitioning Alameda's buildings.



# Elements and Phases of the Plan

Education &  
Outreach

Policies &  
Programs

Financing &  
Funding

Alameda  
Municipal  
Power





# Outreach Process

- Educational Information
- Electrification Workshop Series
- Alameda + Old Town Oakland Farmers Market
- Interactive Poster at Library
- Electrification Survey
- Emails, social media
- Public Review period
- Planning Board and Public Utilities Board review



[www.alamedaca.gov/BuildingElectrification](http://www.alamedaca.gov/BuildingElectrification)



# Planning Board and Public Utility Board Feedback

- Support for addressing climate change
- Support for concept of building decarbonization and investing in AMP
- Concerned about cost of implementation
- Strengthen equity principles and make sure implementation provides benefit for vulnerable populations, communities of color, renters and small landlords
- Need for additional guidance and information to support voluntary adoption





# Opportunities for outreach and education

- Decarbonization social marketing campaign
- Targeted educational material (flyers, handouts, newsletters, bill inserts)
- Materials to help residents understand variety of programs and braid them together for maximum impact.
- Webinars and workshops – Electrification 101, induction cooking
- Pilot and case studies to demonstrate decarbonization process and better quantify real world benefits
- Electrification Expo
- Targeted stakeholder meetings



# Existing Programs

Provider	Appliance	Key features
AMP	Heat Pump Water Heater	<b>\$1,500</b> rebate for Energy Start certified heat pump water heater; <b>\$4,000</b> for central heat pump water heater on a commercial account
AMP	Central HVAC Heat Pump	<b>\$1,500</b> rebate to switch gas central HVAC unit to electric heat pump HVAC
AMP	Electric Dryer	<b>\$100</b> rebate per Energy Star unit
AMP	Electric Panel Upgrade	<b>\$2,500</b> to upgrade to 200Amp panel and switch at least one appliance from gas to electric
BayREN	Insulation and Ductwork	<b>\$100 - \$1,000</b> rebate to seal air leaks, add insulation and repair ductwork to improve home's energy efficiency
BayREN BAMBE	Energy and Water Efficiency	Cash back and consulting for multi-family property owners

# Existing Programs

Provider	Appliance	Key features
AMP EAP+	Energy Efficiency	Free direct-install energy efficient equipment and services for income qualified households.
Low Income Home Energy Assistance Program (LIHEAP)	Energy Efficiency	Bill payment assistance, energy crisis assistance, weatherization and energy-related home repairs for low income households
Weatherization Assistance Program (WAP)	Energy Efficiency	Support low-income households by increasing the energy efficiency of their homes
California Self-Generation Incentive Program (SGIP)	Heat Pump Water Heater	<ul style="list-style-type: none"><li>• <b>15-20%</b> rebate for battery storage systems (residential and commercial)</li><li>• Heat pump water heater incentive anticipated 2023 – up to <b>\$4,885</b> for low-income customers and <b>\$3,800</b> for other customers</li><li>• Additional <b>\$1,500</b> for systems using “low global warming potential” refrigerants</li></ul>

# Inflation Reduction Act - Anticipated

Program	Key Features	When Available
HOMES Rebate <ul style="list-style-type: none"><li>• Max rebate for &lt;80% AMI</li></ul>	<b>\$2,000 to \$8,000</b> – capped at 50% project cost Rebate based on percentage energy savings Rebate is increased for measured energy savings	Expected mid-2023
High-Efficiency Electric Home Rebate Program (HERA) <ul style="list-style-type: none"><li>• Up to 100% of project cost for &lt;80% AMI</li><li>• Up to 50% of project cost for 80% to 150% AMI</li></ul>	Up front rebates ( <b>up to \$14,000 total</b> ) <ul style="list-style-type: none"><li>• \$1,750 – Heat pump water heater</li><li>• \$8,000 – Heat pump HVAC</li><li>• \$4,000 – Electric panel</li><li>• \$840 – Electric stove, dryer</li><li>• \$2,500 – Electric wiring</li><li>• \$1,600 - Weatherization</li></ul>	Expected mid-2023
Tax Credits	30% on PV and battery storage (available now) \$600 – electric panel \$2,000 – Heat pump water heater \$1,200 - Weatherization	2023

# Recommendation

*Recommend Council Adoption of the Equitable Building Decarbonization Plan*

