

# CLIMATE ACTION & RESILIENCE

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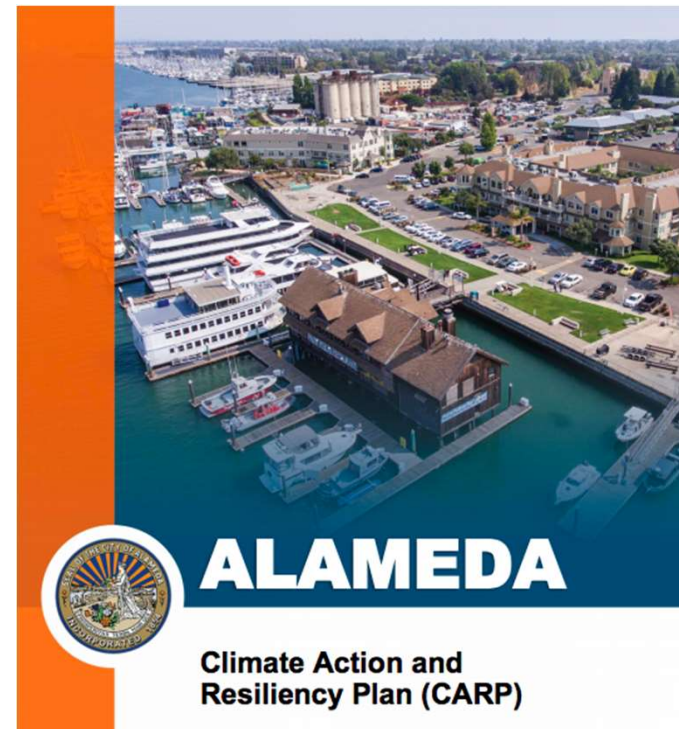
League of Women Voters

April 8, 2021



# Climate Action & Resiliency Plan (CARP)

1. Reduce emissions to 50% below 2005 levels by 2030.
2. Achieve net zero energy as soon as possible
3. Adapt to shoreline flooding, inland flooding, groundwater flooding, drought, extreme heat, hazardous air quality, and earthquakes/liquefaction.



# Alameda's Changing Climate



Sea level rise  
and storm surge



Extreme heat



Earthquakes/  
liquefaction



Poor air quality/  
smoke



Drought



Inland flooding/  
groundwater



# CARP Goals



## Shift Transportation

Shift trips to biking, walking, transit, and avoiding trips; encourage use of EVs



## Reduce Building Energy

All-electric new buildings, electrify appliances in existing buildings, improve energy efficiency



## Sequester Carbon

Draw down carbon already in the atmosphere through planting trees, expanding wetlands and mulching



## Reduce Waste

Reduce the amount of material we send to the landfill and increase composting and recycling



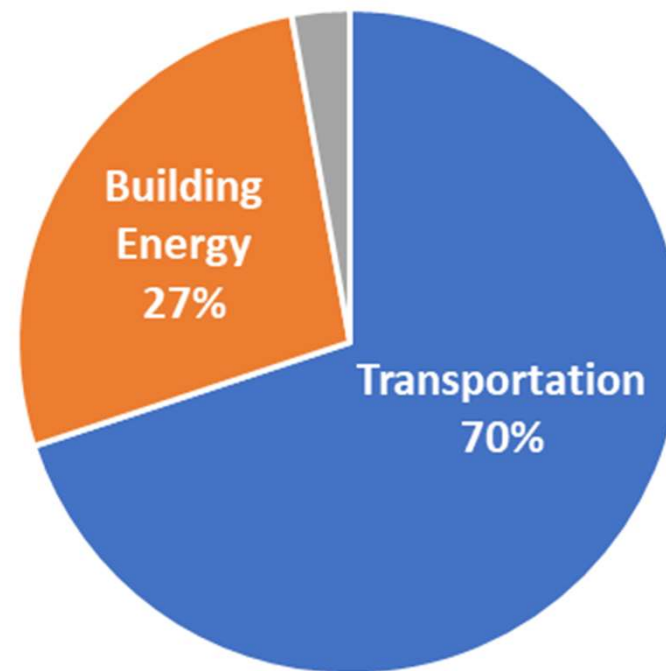
## Adapt

Adapt to flooding, drought, extreme heat, hazardous air quality, and earthquakes /liquefaction

Social Equity

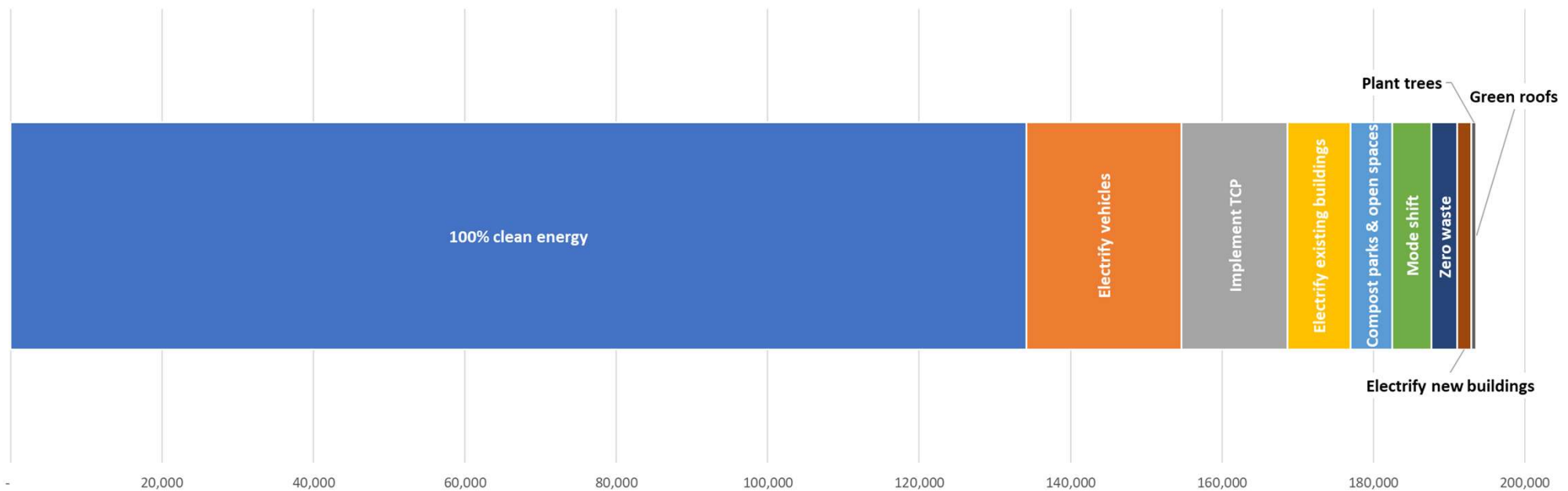


# Alameda's Emissions



# Strategies to Reach our Climate Goals

CARP Actions GHG Reduction (MTCO<sub>2</sub>e)



# Proposed: All-Electric New Buildings

- All newly constructed residential and non-residential buildings would be required to be built all-electric, with certain exceptions.
- Install solar PV over 15% of roof area
- 40+ jurisdictions across California have enacted similar requirements



# Electrification of Existing Buildings

- Switch water heaters, furnaces, stoves, washer/dryer to electric
- **CARP 2030 goal:** reduce natural gas consumption by 12% in existing residential and commercial buildings
- **CARP 2030 goal:** 3,819 residential AMP customers replace natural gas clothes dryer with electric and 382 replace gas water heaters with heat pump water heaters.
- Focus on equity and renters





# Benefits of Electrification

- Reduce indoor and outdoor air pollution
- Reduce risk of asthma
- Eliminate carbon monoxide poisoning

## Health



- Reduce fire risk
- Induction ranges automatically turn off when not in use

## Safety



- Can save on utility bills
- Electric appliances not more expensive than gas

## Savings



- Reduce risk of fire after earthquakes
- Electricity restores much faster after an earthquake

## Resilience



- Advance climate goals
- Reduce methane emissions

## Climate



# Contact me!

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# Stoves: Consumer Reports Prefers Induction

6 of top 8 Ranges for 2020 were electric, top 2 were Induction

Fuel	Model	Consumer Reports Rating	Cost
Induction	GE Profile PHS930SLSS	86	\$2,432
Induction	Kenmore Elite 95073	84	\$1,525
Gas	LG Signature LUTD4919SN	84	\$3,000
Induction	LG LSE4617ST	82	\$2,500
Induction	LG LSE4616ST	82	\$1,700
Smoothtop	Whirlpool WGE745c0FS	82	\$1,000
Gas	Samsung NY58J9850WS	81	\$2,725
Induction	Frigidaire Gallery FGIF3036TF	81	\$1,035



# AMP rebates for electric appliances and EVs



Clothes dryers



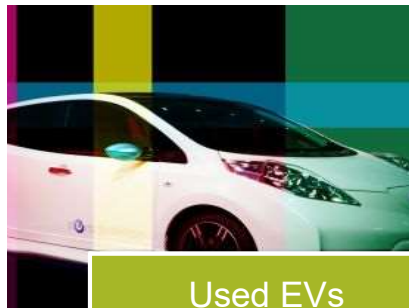
Washing machines



Heat pump water heaters



LED fixtures and bulbs



Used EVs



Level 2 charger

# 2021 Priorities

- All-electric requirement for new buildings
- Update off-street parking ordinance
- Groundwater adaptation strategies
- Advance priority flood protection projects
- Reconvene inter-departmental Green Team
- Revenue measures and climate communication
- Launch citywide Master Tree Plan update process
- Update and complete priority plans (LHMP, GP, ATP)

