

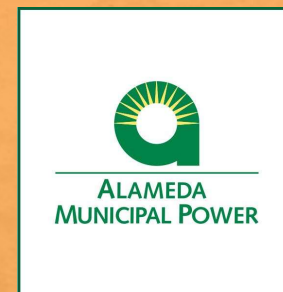


# Electrifying Alameda

**Ann McCormick**

President, Public Utilities Board  
City of Alameda

April, 2021



# Outline

- What's special about Alameda Municipal Power?
- Brief overview and history of electrification and policy issues
- Why electrify? Benefits to Alameda
- Summary of AMP's current and planned programs
- Goals, Barriers, and Next Steps

# Community Owned Power Since 1887

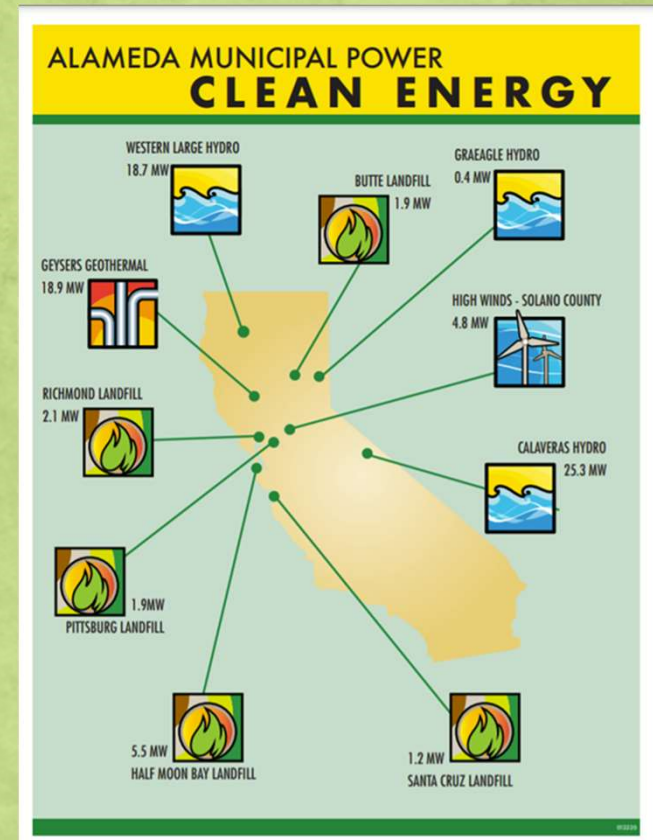
- Historical fun facts
- Benefits of a Municipal Utility (POU vs IOU or CCA)
- Mission: To increase value to Alameda by providing safe, reliable, affordable and environmentally responsible electricity





# Community Owned Power Since 1887

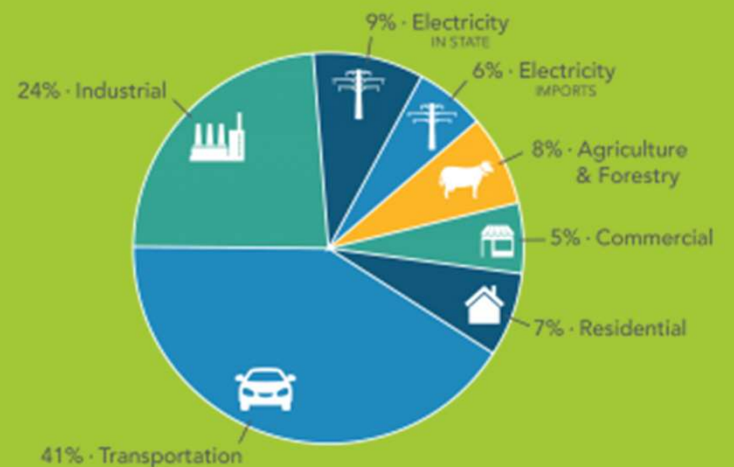
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# Why Electrify?

- Reduce Carbon - critical to achieving climate goals
- Lower net utility cost, reduce health and safety risks
- Major area of research and policy activity; In California, this is focused on the transition from fossil fuel-based transportation and reducing natural gas use
- Key issues include: first cost, technology, equity, and urgency

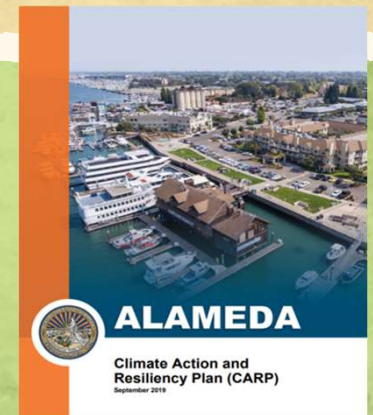
State of California Carbon Emissions  
(Per Air Resources Board)



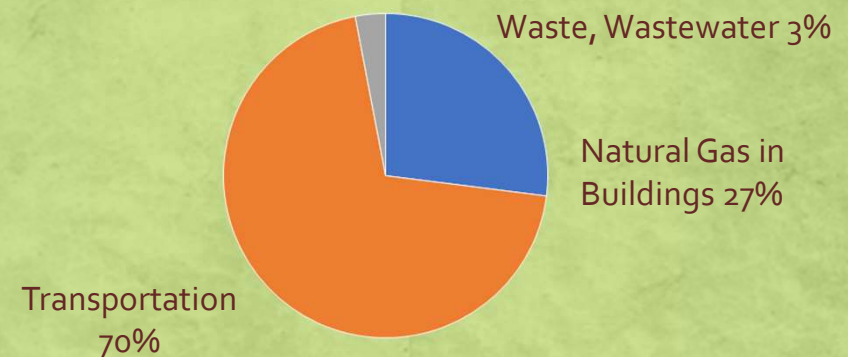


# Importance of Electrification in Alameda

- Success: Decarbonized electricity supply and met previous plan goals set in 2008
- Next target: 50% Reduction in GHG by 2030 (2005 baseline)
- Will require aggressive action to achieve reductions in transportation and natural gas use in buildings
- AMP Strategic Plan supports these goals through electric vehicle and building electrification programs
- Improving efficiency and increasing clean electricity revenues benefits all Alamedans



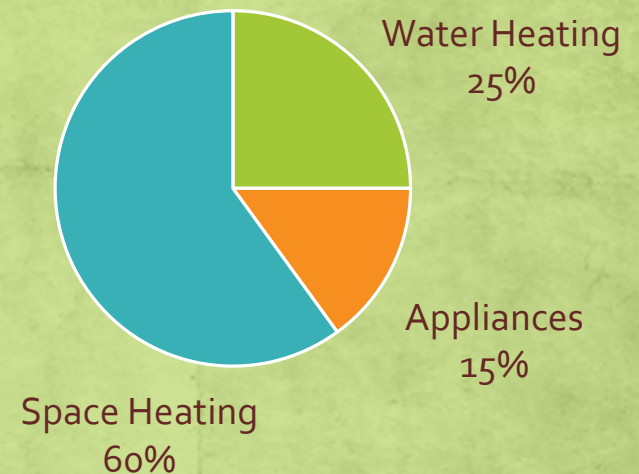
**Emissions in Alameda**



# Overview of Programs

- Reduce residential natural gas use – target water and space heating first
- AMP has many current programs to educate customers and provide rebates
- Additional programs are in development, including new construction assistance
- The following slides provide an overview – see AMP website for more information!

Typical Residential Natural Gas Use Breakdown



Thank you Heather Heinbaugh for the content!

# 1. Enhanced Residential Rebates

## Existing Building Electrification Rebates

- Traditional Electric Clothes Dryer - \$100
- Heat Pump Water Heater - \$1,500
- Electric Panel Upgrade for customers who fuel switch from natural gas to electric- \$2,500
- Electric Panel Upgrade Details:
  - Launched March 2021
  - Increase panel size from 100 amps to 200 amps due to fuel switching
  - Must have installed or be installing at least 2 of the 5 electrification measures:
    - Electric vehicle charger
    - Electric dryer
    - Electric water heater
    - Electric space heating
    - Electric stove



Residential Electric Panel Upgrade Rebate

Apply now to save

**\$2,500.00**

**Apply**

You will leave this site

[Link to Rebate Applications](#)



Existing  
Residential

# Electric Vehicle Rebates and Incentives

## Used EV

- \$1,000 cash back for the purchase of a used BEV
- Purchase price below \$22,000
- Income qualified customers are eligible for up to \$1,500 cash back

28 approved  
rebates since  
August 2020

## EV Bonus Rebate

- Additional rebate for customers who participate in **BOTH** the Used EV and L2 Charger Rebate
- Up to \$500 and up to \$1,000 for income qualified customers

2 approved  
rebates since  
January 2021

## Level 2 EV Charger Rebate

- Up to \$800
- Covers building permit, cost of charger, and installation costs
- Most popular rebate program

410 approved  
rebates since  
2018

## Upcoming Residential

### Upcoming Rebates

- Heat Pump Clothes Dryer - \$600
- Induction Stoves - \$500
- Smart Thermostats - \$150
- Portable induction burners - \$150



### Online Marketplace: Expected Launch in September 2021

User-friendly **online shopping platform** for energy-efficient electric appliances, equipment, devices and:

- Customers can compare products
- Read reviews
- Calculate energy savings on their bill

**Instant rebates** and other incentives offered directly through marketplace

# Upcoming Space Heating Electrification Rebate

## New Heat Pump Space Heater/Air Conditioner Rebate

- Rebate amount- \$3,000 per system (\$1,500 per PTAC)
- Up to 2 systems (or 4 PTACs) per account

**SPLIT**

**Mini Split**  
(can be ducted)



**Room  
by room**

**Whole  
home**

**Split Unit**



**PTAC**

(Package  
Terminal Air  
Conditioner)

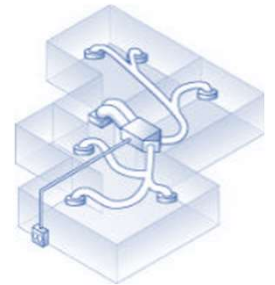


**PACKAGE**

**Ductless**

**Ducted**

**Package  
Unit**





# Enhanced Commercial Rebates

## Existing Electrification Rebates

- Commercial Level 2 EV chargers - \$5,000
- Electric Forklift Rebate - \$2,000

## New Rebates

- Smart Thermostats (included in the Marketplace) - \$150
- Portable induction burners - \$150

## New Heat Pump Water Heater Rebate

- Heat Pump Water Heater (50-80 gallons) - \$1,500
- Large capacity (80+ gallons) - \$4,000



# Enhanced Commercial Rebates

## New Heat Pump Rebate (space heating/cooling)

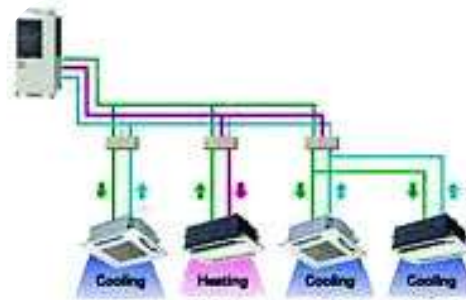
### Mini Split



\$300 - \$900\* single zone  
\$400 - \$1,200\* multi-zone

\*Based on cooling capacity

### Variable refrigerant flow (VRF) multi-zone system



\$500/ton without heat recovery  
\$1000/ton with heat recovery

### Package/Split system Heat Pumps



Not rebated at this time

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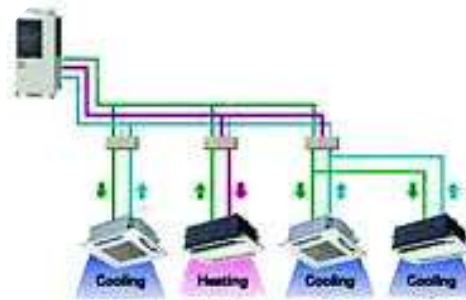
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# Barriers and Next Steps

- Project funding, cost effectiveness of measures, awareness and perceptions
- Issues for AMP:
  - Limitations on how we can spend money
  - Ensuring equity, value, and fairness for all customers
  - Need to reevaluate rate design and alternatives to tiered rates which were designed to incentivize conservation; TOU rates and revised baselines are now available
- Not a barrier: Load growth or the need to procure more carbon free electricity
- Education of building owners, residents, policy makers, and contractors

## The big challenge: Urgency

“We always **overestimate** the change that will occur in the next two years and **underestimate** the change that will occur in the next ten.” - *Bill Gates*

- Need to act quickly but practically, leveraging best practices, bang-for-the-buck, and common-sense solutions
- Must focus on an “all of government” approach with full coordination of departments and stake holders
- Education and communication will be critical



# Thank you!

See our website for more information about AMP, Programs,  
PUB meetings, or to contact board members

[www.alamedamp.com](http://www.alamedamp.com)