

City of Sacramento Existing Building Electrification Strategy



City of
SACRAMENTO
EXISTING BUILDING
ELECTRIFICATION



City of
SACRAMENTO

Preliminary
**Climate Action &
Adaptation Plan**



Public Review Draft
July 1, 2022

To meet our
climate goals,
Sacramento's
building stock
must be **all
electric by 2045**



Greenhouse gas emission reductions

Building electrification leverages SMUD's 2030 Zero Carbon Vision



How do we electrify existing buildings?

Replace gas appliances with energy efficient electric appliances



Gas furnace



Electric air source
heat pump provides
heating & cooling



Gas water heater



Electric heat
pump water heater



Gas stove



Electric resistance
or induction
cooktop & oven



Gas clothes dryer



Electric resistance
or heat pump
clothes dryer

What are the Benefits of Electrifying Existing Buildings?



Greenhouse gas emission reductions

- Building gas accounts for 15% of GHG emissions in Sacramento



Community Health

- Electric appliances → improved air quality, reduced risk of asthma



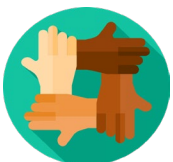
Energy Affordability

- On bill savings now, increasing savings over time.



Resilience & Safety

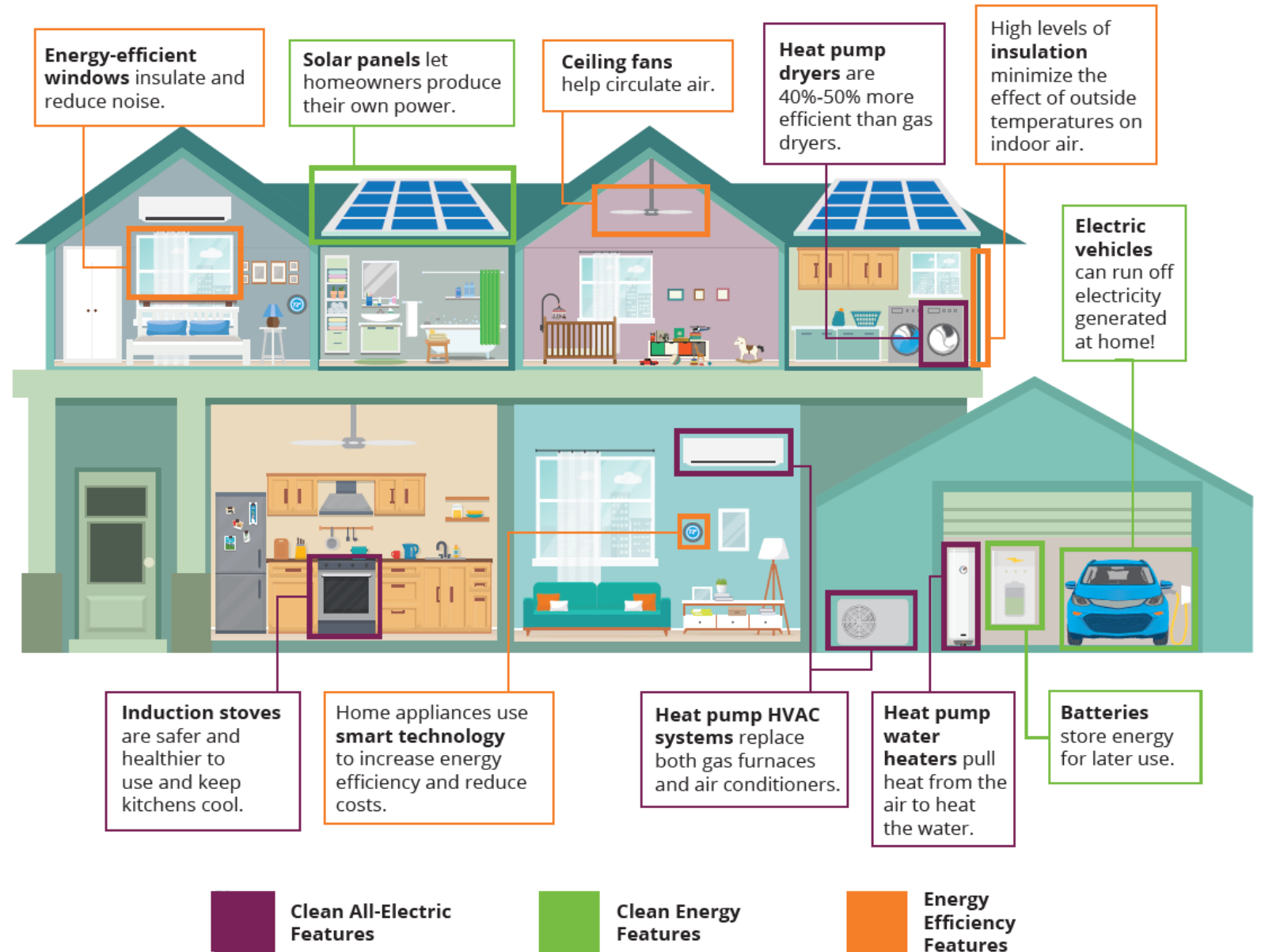
- Decreased fire & carbon monoxide risk, increased resilience with solar



Equity

- Equitable access to health, safety, comfort, and economic benefits.

Electrification can be paired with other upgrades to make buildings safer, more comfortable, and more efficient.



Equity Criteria



Affordable and reliable energy



Easy and affordable installation



Holistic building improvements



Culturally competent outreach and education

Support City and regional efforts to:

- Avoid displacement for households & businesses
- Prioritize low income and under resourced communities and small businesses
- Support the just transition of our workforce and promote high quality green job opportunities



Public Funding to Support Equitable Electrification

SMUD Incentives

- ▷ Rebates for
 - Heat Pump HVAC
 - Heat Pump Hot Water Heaters
 - Induction Stoves
 - panel upgrades for electric conversion
- ▷ Work with contractor from SMUD contractor network

State of California

- ▷ \$922 million allocated for Equitable Building Decarbonization Program
- ▷ TECH program provides rebates for
 - Heat Pump HVAC
 - Heat Pump Water Heaters

Federal Inflation Reduction Act

- ▷ Tax Credits
 - Available now
 - Not income-based
- ▷ Up front Incentives
 - Available in 2024
 - 100% for up to 80% AMI
 - 50% for up to 150% AMI

XeroHome Tool



The XeroHome tool is now open for Sacramento residents!

- ▶ Any single-family home resident can use XeroHome
- ▶ Customized energy model using publicly available data
- ▶ Costs, payback periods for electrification and other energy efficiency projects

