

City of Sacramento Existing Building Electrification Strategy



City of
SACRAMENTO

WHAT IS EXISTING BUILDING ELECTRIFICATION?

Switching from using gas to electricity for heating/cooling, cooking, and clothes drying in our homes, offices, places of worship, and beyond

Why is Sacramento Electrifying?



Greenhouse gas emission reductions



Improved health and comfort



Long term cost savings



Resiliency and safety



Equity

- Gas in buildings made up approximately 15% of Sacramento's greenhouse gas emissions in 2020 but will make up 22% by 2030 and 31% by 2045 if we do not electrify buildings.
- Electrification of existing buildings is key to achieving carbon neutrality
- Leverages SMUD's Carbon Zero by 2030 Plan

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

New Building Electrification Ordinance

- ▶ Starting in 2023, **new low-rise** construction must be all electric
- ▶ Starting in 2026, **all new construction** must be all electric

Existing Building Electrification Strategy

- ▶ Set of long-term policies to transition **existing buildings** to electric
- ▶ **Strategy** will be developed by end of 2022.

How do we electrify **existing buildings**?

Replace gas appliances



Furnace ->
Electric air source
heat pump provides
heating & *cooling*



Gas water heaters
-> electric heat
pump water heater

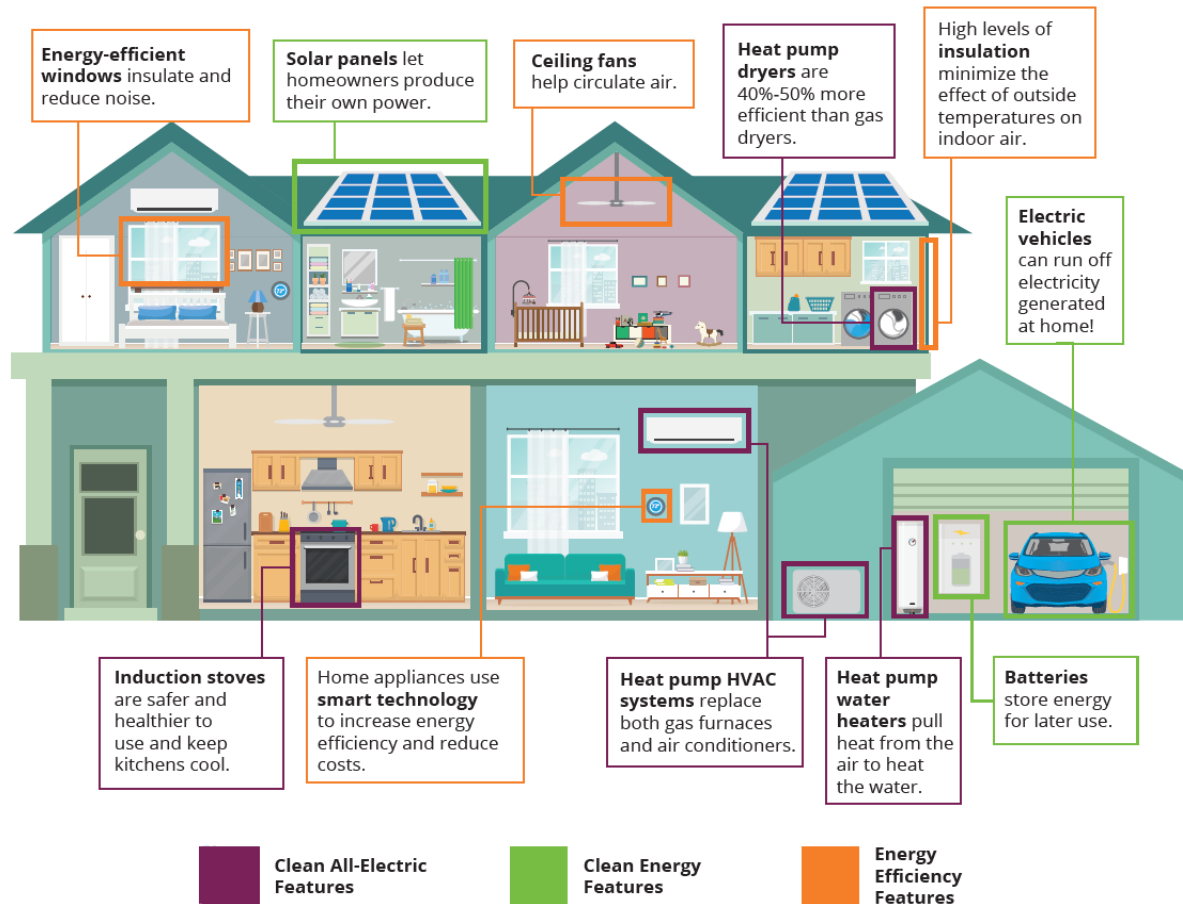


Gas stove ->
Electric/induction
cooktop & oven



Gas clothes
dryer -> electric
clothes dryer

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



Equity is the foundation of
the strategy



Strategy Framework: Equity Criteria

- ▷ Work **with** community to develop equity criteria
- ▷ All policies **must** meet equity criteria in order to be included in the strategy

Draft Equity Criteria



Ensure Equitable Access to Health, Safety, & Comfort Benefits

- Improved indoor air quality
- Reduced fire risk
- Resilience to extreme heat & smoke

Draft Equity Criteria



Ensure Equitable Access to Complementary Housing Improvements

- Energy efficiency and building envelope upgrades
- Lead and asbestos abatement

Draft Equity Criteria



Ensure Energy Equity

- Affordable energy bills
- Protection from rising gas prices

Draft Equity Criteria



Ensure Equitable Access to High-Road Job Opportunities

- Fairly paid and well-trained workforce
- Just transition to a low-carbon economy

Draft Equity Criteria



Maximize Ease of Installation

- Support for renters, homeowners & business owners
- Simple process
- High-quality equipment installed by well-trained workforce

Draft Equity Criteria



Promote Affordable Housing and Anti-Displacement

- Tenant protections
- Support for affordable housing production & preservation

Policies must also be **effective**



Cost-effectiveness

Ensure costs are minimized or offset through funding and financing strategies



Technological Feasibility

Ensure new technologies or upgrades are technologically feasible on a city-wide scale



Measurable & Sustained Impact

Ensure that electrification policies are impactful and will provide evidence-based results long term



Energy Security

Ensure that energy security is preserved or improved throughout the community long term



Programmatic Feasibility

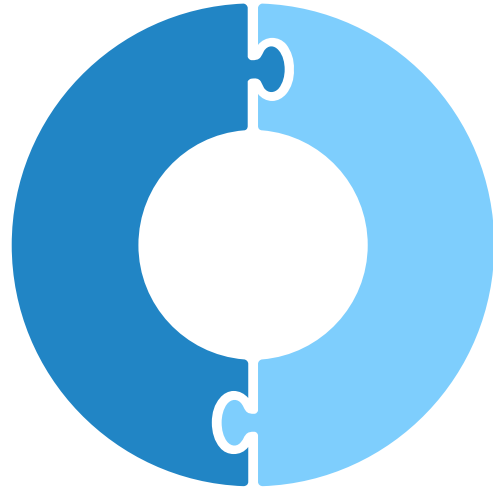
Ensure that electrification policies reflect current electrification practices and can be implemented by the City and its partners



Regulatory Feasibility

Ensure that electrification policies align with regional and State regulations

Equity + Effectiveness = Policy Pathway



We will develop a series of policies and actions that meet our equity and effectiveness criteria.

Project Timeline



Contact Us:

Existing Building Electrification Strategy Public
Participation Portal

More Information:

cityofsacramento.org/SacExistingBuildingElectrification