

Environment and Climate Commission
October 19, 2022





Existing Buildings Electrification Strategy

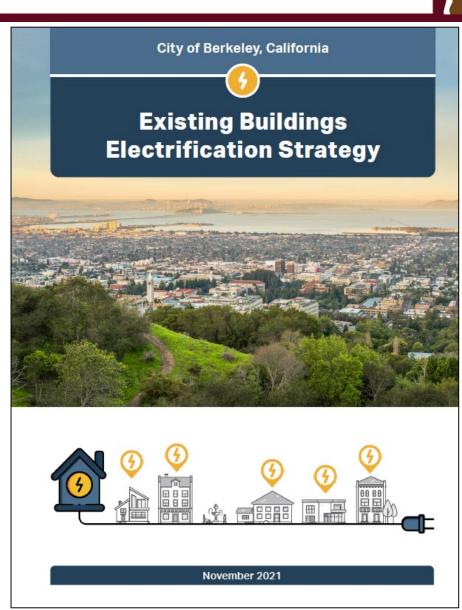




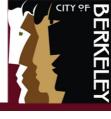
Project Scope

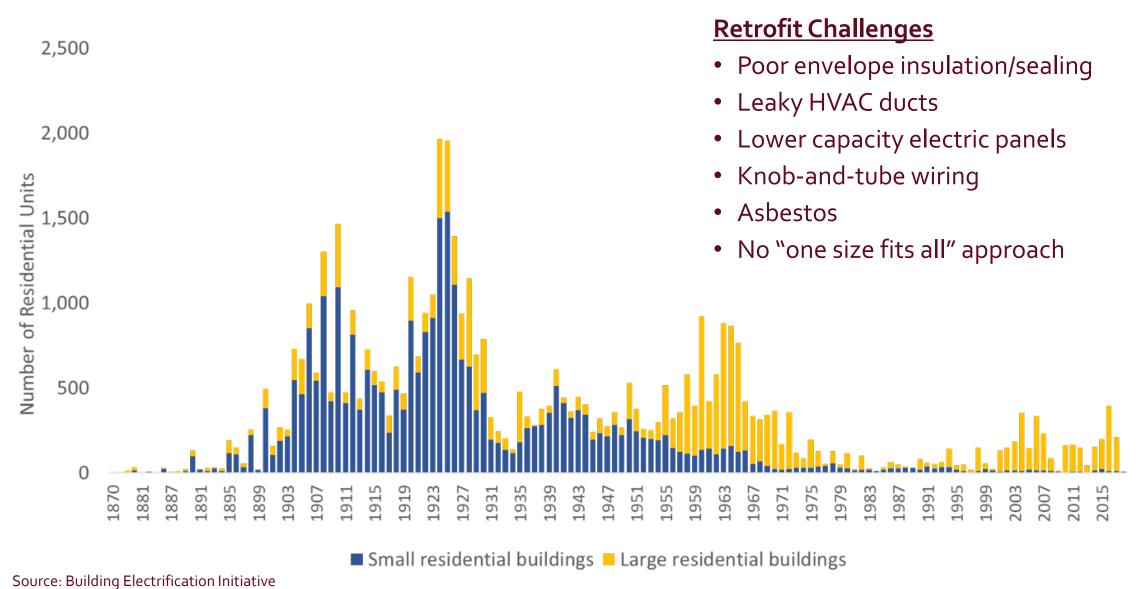
BERKELEY

- Equitable electrification of all existing buildings
 - Determine date possible
 - Provide short- and long-term solutions
 - Focused on low-rise residential buildings
- Building stock analysis
- Cost & savings modeling analysis
- Community engagement



Berkeley's Older Housing Stock





Ongoing Housing Crisis & Displacement Risk

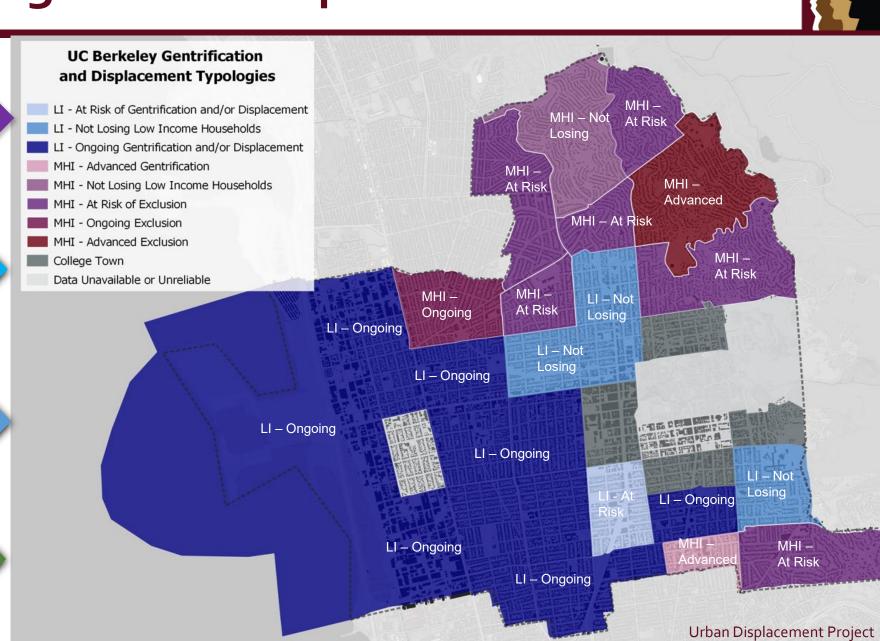


Ongoing gentrification and displacement

Extreme rental rates (median \$2600 in 2017)

Poor protections for unsubsidized affordable housing

Disincentives for retrofitting rent-controlled buildings



Targeted Community Engagement – What We Heart

Concern of displacement due to housing improvements (increased rent)

Upfront and longterm costs are primary concern Electrification upgrades should be linked with other health/safety upgrades (e.g. lead, asbestos, mold)

Concern of reliability of electricity supply, especially with PSPS events

Need to work with labor and trades for just transition

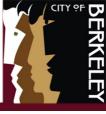
Work closely with community on solutions

More education, assistance needed

Need to build trust in City, electrification

Need accessible financing and funding options – no new debt

Equity Guardrails





ACCESS TO HEALTH & SAFETY BENEFITS

Ensure equitable access to marginalized communities and others most impacted by climate change, to health, safety and comfort benefits from electrification for both home owners and renters. Due to the upfront costs of electrification, many households will need financial support to have access to high quality upgrades and the benefits of electrification, including long-term cost savings.



ACCESS TO ECONOMIC BENEFITS

Ensure all community members, especially marginalized communities have equitable access to affordable funding and financing mechanisms, and to high-road job opportunities.



MAXIMIZE EASE OF INSTALLATION

programs for the community provide meaningful support to renters, owners, and marginalized community members to provide a simple process that minimizes the burdens and impacts associated with the installation of high quality electric equipment installed by a fairly paid and well trained workforce

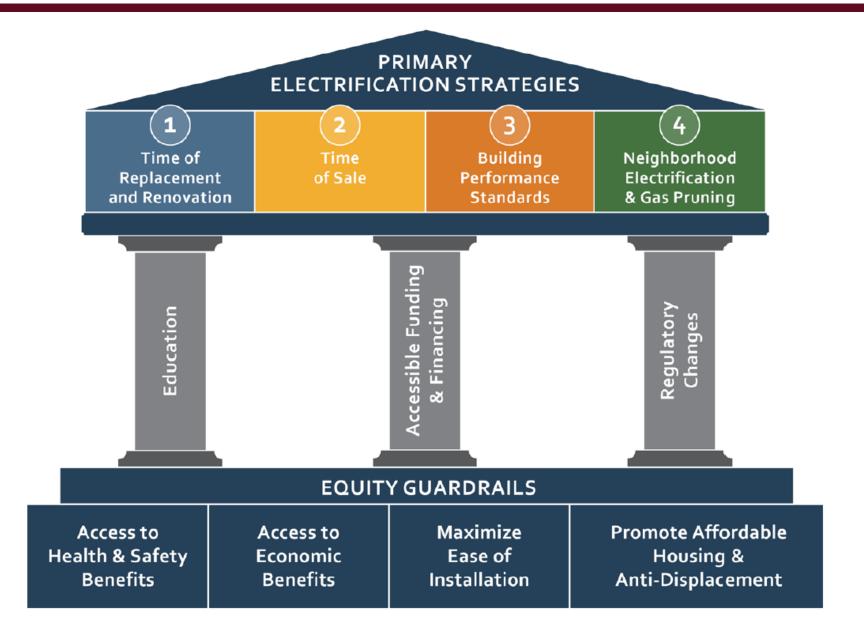


PROMOTE HOUSING AFFORDABILITY & ANTI-DISPLACEMENT

Ensure upgrades don't displace renters or over-burden homeowners. Programs should support housing production, housing preservation, and tenant protections.

Strategy Framework





Phased-In Approach



Phase 1 (2021-2025)

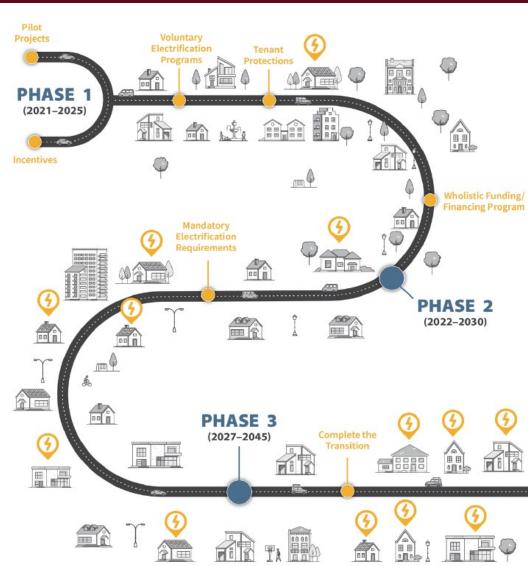
 Lay the groundwork, develop accessible and affordable solutions

Phase 2 (as soon as possible, no later than 2022-2030)

Implement core policy levers

Phase 3 (as soon as possible, no later than 2027-2045)

Complete the transition



Policy Strategies and Implementation Updates



Time of Replacement

ACEEE Energy Equity for Renters Toolkit

Time of Sale

Building Emissions Savings Ordinance (BESO) updates

Building Performance Standards

Large building standards through BESO

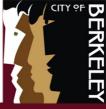
Neighborhood Electrification & Gas Decommissioning

Exploring opportunities

Cross-Cutting Actions

- \$600,000 Pilot Climate Equity Fund
- \$1.5M Just Transition Pilot Program
- CA High Road Training Partnership

Measuring Progress



Citywide Building Energy Usage from Gas Combustion

69% in 2020

Goal: Decrease percentage of building energy from fossil fuel consumption, in the form of gas combustion, to 0 by 2045 while switching to clean electricity

BayREN Home+: # of Measures Completed



795 from 2019-2021

Goal: Increase BayREN Home+ participation

BayREN Multifamily: # of Units Participated



1,052 from 2014-2021 Goal: Increase BayREN Multifamily participation and upgrade more units to decrease energy use, emissions, and increase comfort

Total GHG emissions Saved through BayREN Upgrades



338_{mtCO2e} from 2014-2021

Goal: Increase total GHG emissions saved through participation in BayREN Home+ and BayREN Multifamily