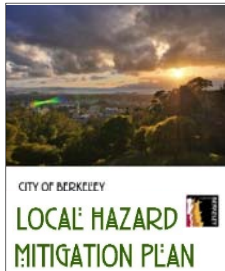
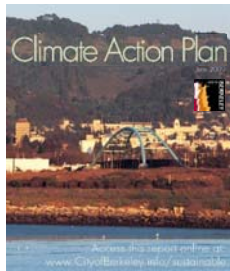


# Electrifying Buildings in Berkeley

Getting to Zero Forum  
October 11, 2019



## Berkeley Climate Commitments



Reduce emissions  
80% by 2050

100% Renewable  
Electricity by 2035

Zero Net Carbon  
Emissions by 2045

Fossil Fuel Free City

# BERKELEY DECLARES CLIMATE EMERGENCY

Jun 20, 2018



## Path to a Clean Energy Future

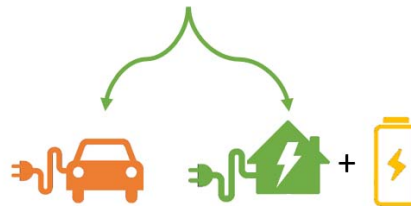
1. Reduce energy use



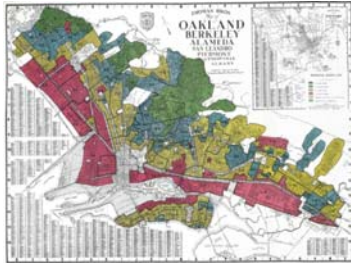
2. Clean electricity



3. Electrify transportation & buildings



# Housing: History of Inequity



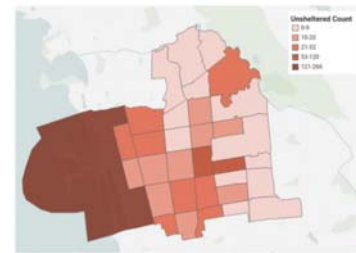
This Thomas Bros map shows how Berkeley was divided into different colored zones indicating the "soundness" of lending in those zones. The red areas were "redlined" banks would not lend to people buying property there.

**Redlining**



**Displacement**

FIGURE 12. TOTAL NUMBER OF UNSHELTERED PERSONS IN THE CITY OF BERKELEY BY CENSUS TRACT



**Homelessness**

# Targeted Universalism Design Approach



Healthy, Affordable, Comfortable, Clean Energy Homes for Everyone

## Accelerating Electrification in New Buildings

- Prohibition on Natural Gas in New Buildings in the Health and Safety Code
- Proposing: Electric-favored Reach Code & EV Readiness in the Building Code
- California Environmental Quality Act Mitigation Measure



## Berkeley Electrification for New Construction

Prohibition on Natural Gas	Reach Code (Proposed)
Covers projects with Land Use Permit application submitted after January 1, 2020	Covers projects with Building Permit application submitted after January 2020 pending California Energy Commission (CEC) approval
Applies to Newly Constructed Buildings	Applies to Newly Constructed Buildings
Prohibits natural gas infrastructure in buildings	Provides two compliance pathways: All-electric or more efficient mixed-fuel
Provides feasibility and public interest exemptions	Efficiency requirements for mixed-fuel based on cost-effectiveness and CEC approval

## Why a Reach Code when we have a Prohibition?

- Triggers differ (building vs land use permit application)
- Regional alignment
- Influence 2022 Energy Code
- Specifies requirements in code
- Legally sound approach



## Accelerating Electrification in Existing Buildings

- Building Energy Savings Ordinance (BESO) and proposed transfer tax rebate in development
- Building Electrification Initiative building inventory analysis
- Pathways to Clean Energy Buildings Strategic Plan for inclusive electrification

## Existing Buildings – Building Energy Saving Ordinance (BESO)

- Annual benchmarking & 5 year audit for large buildings
- Home Energy Score at Time of Sale
- Shifting from Energy Efficiency to include Electrification

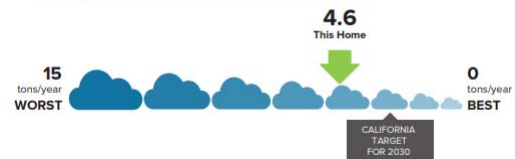
### Home Energy Score details



Official Assessment | ID#290908

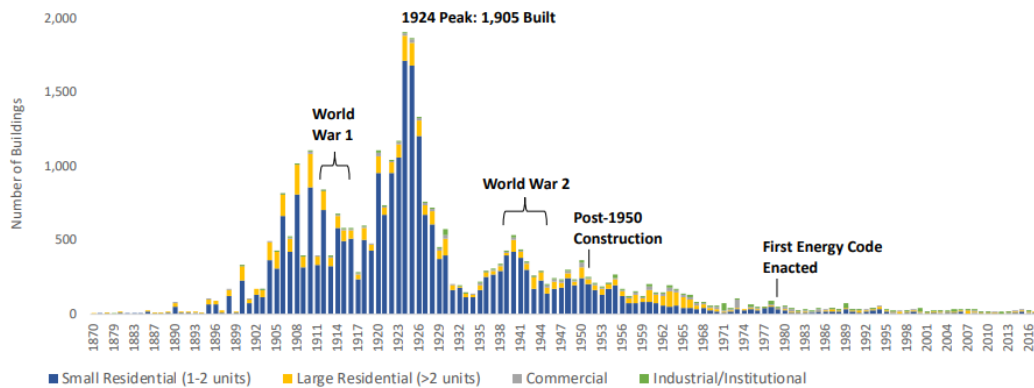
Home Energy Score is an easy way to see how energy efficient this home is compared to other homes. A higher score is better. This report also contains ways you can make your home more efficient and more comfortable.

### This home's carbon footprint



## Building Electrification Initiative Existing Building Market Segmentation by Vintage

All Buildings, Year Built



## Electrification Opportunities

- Education and community engagement
- Partner with multifamily housing developers to promote housing solutions
- Technical resources and incentives from East Bay Community Energy
- Strategic investment in existing housing stock



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