

KELE

October 18, 2023





Building Type	Avg. # of Buildings Sold per Year	% of Sales
Single Family	600	61%
Duplex	60	6%
3-4 Units	50	5%
Condominiums (within 2-4 Unit Buildings)	30	3%

Additional Outreach/Engagement

- Berkeley Rent Board Sustainability Committee
- Real Estate Professionals Webinar
 - 1,000+ invited
 - ~100 attendees
- Realtor Office Engagements
- City Green Building Coordination Team
- Upcoming:
 - Council Policy Committee (FITES) Nov 1
 - Berkeley Property Owners Association
 - Community and Environmental Organizations



- Berkeley's Residential Conservation Ordinance (RECO) Background
- Reframing the requirements (Heat pump to flexible BPS)
- 3-4 Unit building phase-in by 2027 or sooner, when adequate renter protections are in place

Potential Impacts to Renters

• Pass through upgrade costs to renters

- Upgrade costs could be passed through in non-rent controlled unit
- When Heat Pump HVAC added, new cooling service would allow property owner to petition for increased rent in rent controlled unit

Utility cost shifted/increase

- Property owner pays gas then building electrifies = increased electricity bills for tenants
 - Would require tenant approved change to lease
- Impacts of electric systems during peak hours or additional AC service
- Displacement/inconvenience during upgrades

Proposed Upgrade Requirements

Flexible Building Performance Standard

- Buildings need to achieve minimum number of credits through upgrades
- Rationale:
 - Addresses range of building conditions
 - Owner can prioritize
- Potential point criteria:
 - Energy savings (emissions)
 - Cost
 - Health, safety, resilience bonus





Potential energy upgrade measures

Electrification

- Heat Pump Water Heater
- Heat Pump HVAC
- EV Charging Station (New! including Bi-Directional Charger)
- Induction Range

Electric Ready

- Replace knob and tube
- Panel upgrade (if below 100 amps)
- Pre-wiring & 240v outlets
- Smart Panel

Energy Efficiency

- Duct Sealing/Replacement (Verified)
- Attic Insulation
- Wall Insulation
- Window replacements
- Air Sealing (Verified)
- Floor Insulation/Crawlspace Improvement

Resilience

- Solar PV Installation
- Battery storage installation
- Greywater system

Potential measures & credits



Electrification

Measure	Credits	Criteria
Heat pump water heater	6 (<i>full</i>)	Energy
Heat Pump HVAC	6 <i>(full)</i>	Energy
EV Charging Station	2	Cost
Bi-Directional EV Charger		TBD
Induction Range		TBD

Electric Ready

Measure	Credits	Criteria
Knob + Tube Replacement	6	Cost
Panel Upgrade	4	Cost
Prewiring & 240v Outlets	1⁄2 (per outlet)	Cost
Smart Panel		TBD

Energy Efficiency

Measure	Credits	Criteria
Duct Sealing/Replacement	3	Energy
High Home Energy Score (Bonus)	2	Energy
Attic Insulation	2	Energy
Wall Insulation	2	Energy
Window Replacements	2	Energy
Air Sealing	1	Energy
Floor Insulation		TBD

Resilience

Measure	Credits	Criteria
Solar PV + Storage	4	Energy
Solar PV	1	Energy

Cost Effectiveness Explorer



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Example: Home *h*α*s* a heat pump



Seller completes assessment (Home Energy Score)

OR

Home listed for sale

Fully Compliant, no upgrade needed

Example: Home *doesn't have* a heat pump



Seller completes assessment (Home Energy Score) Home listed for sale

Funds to cover upgrades negotiated at closing through escrow deposit Buyer completes Energy Upgrade(s) to meet target credit requirement and utilizes escrow deposit

Covered Building Phase-in

• Phase I: Single-family, ADUs, Duplexes, Condos within 1-4 unit buildings

- Expected implementation 2025
- Likely to be owner-occupied
- Bulk of sales

• Phase II: 3-4 Units

- Expected implementation by 2027
- Use lessons learned from Phase 1
- Likely to be rental properties
- Complex/shared systems
- Need to develop additional support systems



Escrow Deposit

- Buyer/Seller negotiated
- If compliance requirements not met, 1-year extension can be requested
- Deposit sent from escrow to City
- Refunded once property is compliant
- Operate similar to Private Sewer Lateral
- After 2-years the funds are forfeited to the City and could be used to help fund low-income electrification programs





Proposed Exemptions/Support

• BESO Exemptions:

- All-electric homes with permits showing capped gas line
- Refinances and partial transfers

• Support:

- Assessment support for income qualified sellers
- Credit for High Home Energy Score
- Hardship extensions and deferrals



Clarifying Questions





Proposed Policy Components

• Covered Buildings:

- Phase I: Single family homes,
- Duplexes, ADUs, condos
- Phase II: 3-4 Units

• Requirement:

- Flexible (credit based) Building Performance Standard **OR**
- One heat pump system

• Buyer vs Seller Responsibilities:

- Seller: Assessment
- Buyer: Complete upgrades (*if no heat pump*)
- Implementation:
 - Utilize escrow bond/deposit process

• Exemptions:

- All-electric homes
- Refinances and partial transfers



Thank You!

Ammon Reagan

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