

# All-Electric Major Renovations

**San Francisco Board of Supervisors**Land Use and Transportation Committee

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### All-Electric Major Renovations Ordinance

This proposal would expand the all-electric new construction to limited, specific circumstances when a building is renovated or substantially expanded and building systems are replaced.

Installing electric equipment now avoids costly retrofits of new gas systems in the near future.





### How We Got Here

- 100% Renewable Electricity
   Ordinance 2019
- Electric Preference Ordinance 2019
- Chapter 7 of the Env Code 2020
- All-Electric New Construction
   Ordinance 2020
- Chapter 9 of the Env Code 2021
- All-Electric Major Renovations 2025

# Robust Stakeholder Engagement

PHASE I (June 2023-Jan 2024)

- Building Operations Task Force
- Affordable housing developers, building owners, city departments (MOHCD), small contractors, tenants' rights organizations, CBOs

PHASE II (Feb 2024-June 2024)

 Examples: Emerald Fund, SF & Chinese Chambers of Commerce

PHASE III (Jan 2025 - Current)

 Examples: SFAA, HAC, Better Housing Coalition, HMS Associates, Forge, Cordia



# California is going all electric

**Zero-NOx Standards**(Air District)
Phasing out gas water heaters (2027–2031) and furnaces (2029)

**CPUC Gas Decommissioning**Planning long-term gas phaseout

This ordinance aligns with California's broader strategy to phase out fossil fuels





**CALIFORNIA** 

**Public Utilities Commission** 

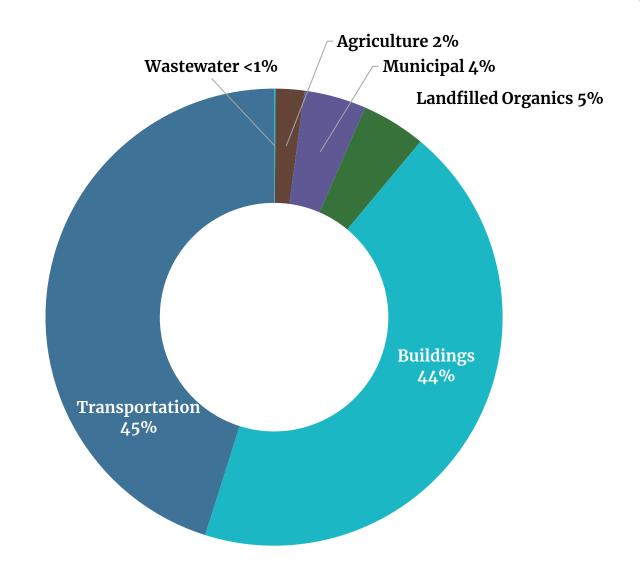


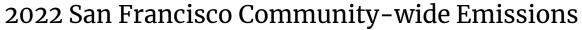


### Major Renovations Ordinance: Why Now?

- Saves Taxpayers Money Reduces long-term cost to residents and to the City
- Protects Public Health Reduces chronic disease, premature mortality and healthcare costs
- Creates a Resilient City reduces disaster impacts and fire risks

Climate Action
Plan Goal:
Net-Zero
Emissions by 2040







### **New Construction**

### **Major Renovation**

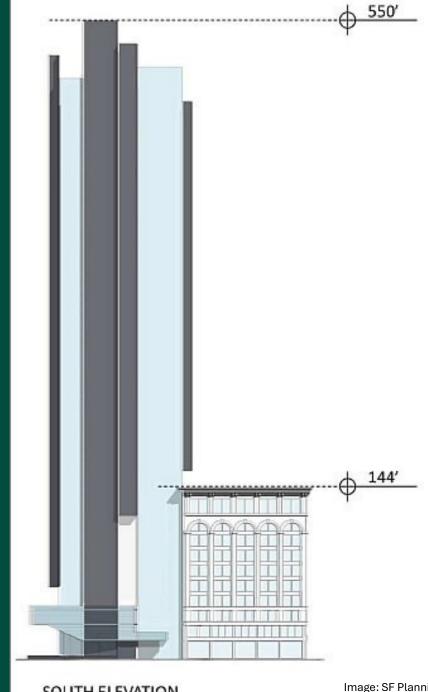


Mission Rock (Image: SPUR)



### Additions

46-story addition to historic Aronsen Building



SOUTH ELEVATION

Image: SF Planning

### What Qualifies as a Major Renovation?

It is a two-step criteria:

- A substantial structural alteration or major addition AND
- 2. A substantial upgrade to the mechanical systems (i.e., system replacements of hot water and heating)



### Existing Exceptions:

- Physical or technical infeasibility
   Specific restaurant or food service needs
- Contractual obligations established before the ordinance
- State or federal regulations

### Exceptions Apply:

- An all-electric design is not feasible, and
- Gas use directly addresses the identified issue





### Key Additional Exemptions for Major Renovations Only

**I**SSUE APPROACH

Office to Housing

Exempt until 2031

Reuse of Mechanical Systems if < 5yrs

The project can retain for ongoing use an existing water heating or space heating system that serves at least 80% of the area, provided the equipment was installed within the last 5 years

Delay for utility service (infeasibility)

AB 112 will allow DBI and SFE to permit mixed-fuel construction projects when utility service delays would significantly impact project timelines. This provision will be clarified and incorporated under the technical infeasibility exemption.



### Key Additional Exemptions for Major Renovations Only

**I**SSUE APPROACH

### Affordable housing

Before July 1, 2027 - Exempt from ordinance requirements

Between July 2027 and December 2030 - Phase-in period and exemption flexibility exist

On or After January 1, 2031 - Full ordinance applies

Affordable housing developers face complex financing, tight margins, and strict construction timelines. Supporting best-faith efforts to electrify these projects requires a **clear, accessible off-ramp** in the All-Electric Major Ordinance

The exemption process shall go through the San Francisco Environment Code, Chapter 7 (§§ 700–707), Municipal Green Building Task Force. Section 705 of Chapter 7 outlines conditions under which projects may receive waivers. The waiver types include: emergency, cost prohibitive, alternate compliance and other circumstances. We are proposing to update Chapter 7 to add MOHCD to the Task Force.

Once a request is submitted, the Director is required to respond within 35 days (except for emergency waivers, where a response is required within five business days).

# New construction and renovations are cost-efficient opportunities to electrify

### **Incremental Cost per Square Foot**

Use	New Construction and Major Renovations
Single family	-\$2.14
Multifamily 2-3 floors	-\$0.64
Multifamily 5-10 floors	-\$0.47
Office	-\$1.19
Retail	\$0.00
Small Hotel	-\$14.56



Negative numbers indicate construction cost reduction.

Sources: <u>localenergycodes.com/content/resources</u>

# Retrofitting mixed-fuel buildings cost more

### **Incremental Cost per Square Foot**

Use	Existing Building Retrofit – Low	Existing Building Retrofit - Higher
Single family	\$2.27	\$3.92
Multifamily 2-3 floors	-	\$6.92
Multifamily 5-10 floors	-\$1.94	\$12.12
Office	-	\$2.95
Retail	-\$0.01	-
Small Hotel	-\$2.53	-\$0.34



Negative numbers indicate construction cost reduction.

Sources: <u>localenergycodes.com/content/resources</u>

# Incentives to Support the Electrification Transition

Funding Source	Program Name	Funding Amount Per Household	Description
Federal	HEEHRA Multifamily	\$14,000	For low- and moderate-income households. Covers 100% and 50% of installation cost, respective
	25C Homeowner tax credit	\$3,200 per year	Provides a 30% tax credit for heat pumps and qualified electrical & efficiency upgrades. Expires December 2025.
State	TECH Clean California	\$1800 to \$8,800	Heat pump water heater rebate program, electric panel upsizing, and low-income households
	GoGreen Home + Equitable Building Decarbonization	0% interest for 10 years	Assists low-income households with energy upgrades, including heat pumps.
Bay Area	BayREN EASE	80% of project cost	Regional program for weatherization, serving households under 120% AMI
City	Climate Equity Hub	\$10,000	For income qualified residents towards to cost of a HPWH
	SFPUC Bill Credit	\$600 a year	\$50 per month bill credit when HPWH installed for 2 year/3 years for low income

# Thank you!

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