

DOCKETED	
Docket Number:	22-DECARB-03
Project Title:	Equitable Building Decarbonization Program
TN #:	248083
Document Title:	Presentation 1A EBD Workshop 2022-12-13 - CEC
Description:	N/A
Filer:	Gabriel Taylor
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	12/14/2022 3:38:04 PM
Docketed Date:	12/14/2022



Equitable Building Decarbonization Program

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December 13, 2022



Policy Drivers

**Carbon-free economy
by 2045**

**100% renewable and
carbon-free electricity
by 2045**

**Reduce GHG
emissions 40% below
1990 by 2030**

**Double energy
efficiency savings by
2030**

**Provide equitable low-
carbon solutions for
low-income residents
and disadvantaged
communities.**

**Electrify
transportation and
decarbonize fuels**



Focus on Existing Buildings and Equity

- Billions of dollars needed to reduce GHG emissions by 2030
- 5 million low-income households in California and 10 million people living in a disadvantaged community
- Focus on existing buildings should prioritize equity at its core
- 6 million heat pumps in CA by 2030



Residential Units

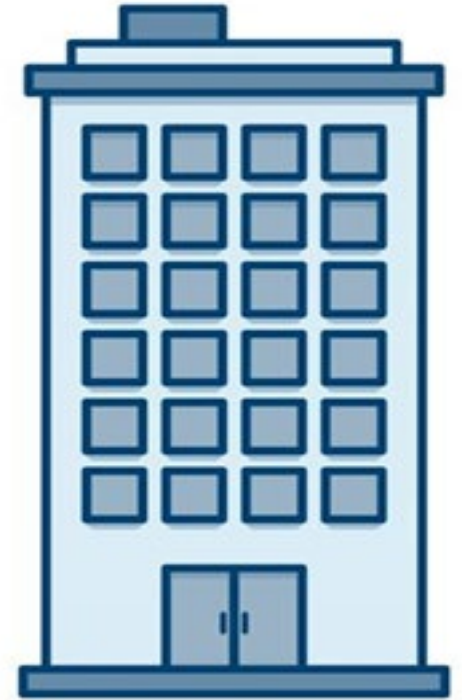
13.7 million

Annual Electricity Consumption

93,522 GWh

Annual Gas Consumption

4,562 MM therm



Commercial Space

7,392 million sq. ft.

Annual Electricity Consumption

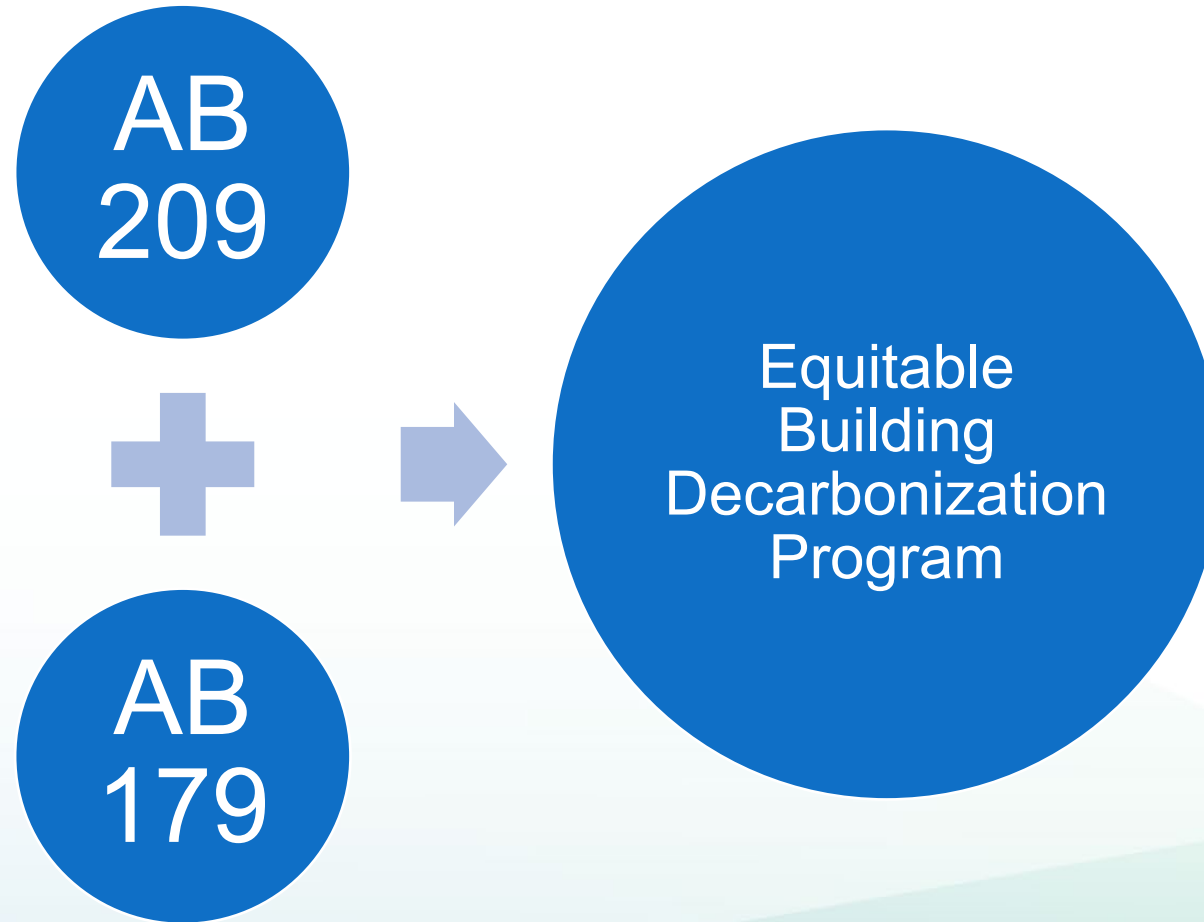
105,174 GWh

Annual Gas Consumption

2,130 MM therm



Equitable Building Decarbonization Program





Direct Install Program

Requirements:

- Reduce GHG emissions
 - Energy efficiency, decarbonization, and load flexibility solutions
 - Extreme heat, indoor air quality, energy affordability, and grid reliability
- Residential (single, multi-family, mobile/manufactured homes)
- Low to moderate income
- Preference for under-resourced communities and California Tribes
- Prevailing wage
- CEC can evaluate needed funding changes after two years



Incentive Program

Requirements:

- Reduce GHG emissions
- Advance low carbon building technologies
- Coordinate with other program administrators
- 50% benefit to under-resourced communities



Early thoughts

Prioritize
Direct
Install
Program

Up to \$610
million to
direct
install

Existing
Homes

Existing
Programs

Layer and
Leverage

Segment
state into
regions for
competitive
solicitation

Technical
support for
targeting

Single
M&V



Program Activities and Milestones

Activity & Milestones

• Data Gathering & Research	On-going
• Scoping Workshop	December 2022
• Contracts	Spring 2023
• Draft Guidelines	Spring 2023
• Solicitation Issued	Spring/Summer 2023



Building Decarbonization Programs - State

Program	Focus	Time Frame	Funding
Building Initiative for Low-Emissions Development	Incentives to build all-electric low-income multi-family buildings; Gas territories only	Active	\$60 million
California Electric Home Program	Incentives to build all-electric and/or provide energy storage systems in new homes	2023	\$58 million
Equitable Building Decarbonization Program	Direct install decarbonization program and an incentive program to advance the adoption of low-carbon technologies	2023	\$922 million
Electric Program Incentive Program	Research and development program. Address barriers to building decarbonization and support equitable distribution of clean energy solutions	Active	\$75 million over 2021-25
Gas Research and Development	Fund projects to catalyze change and accelerate achievement of energy goals. Recent focus on gas cooking and indoor air implications and equitable gas line pruning	Active	\$80 million to date



Building Decarbonization Programs – Federal

Program	Focus	Time Frame	Funding
Homeowner Managing Energy Savings Program or HOMES (IRA)	Rebates for whole-house energy retrofits in single and multi-family homes. Higher rebate for low/moderate incomes and disadvantaged communities	2024	\$282 million
High-Efficiency Electric Homes Rebate Program or HEEHRA (IRA)	Rebates for electric appliances in households at/below 150% area median income	2024	\$280 million
State Energy Program (IIJA)	Funds to support CEC operations/staff	2023 (awards)	\$31 million
Energy Efficiency Revolving Loan Fund (IIJA)	Funds for financing capitalization to support energy efficiency	2023 (release solicit)	\$6.8 million
Energy Efficiency Conservation Block Grant (IIJA)	Grants to support energy efficiency	2022 (release solicit)	\$10 million
<i>Building Codes Implementation for Efficiency and Resilience (IIJA)</i>	<i>Competitive opportunity</i>	<i>Expected release end of 2022</i>	<i>\$225 million (nationally)</i>



Program and Staff Contact

Program Webpage: www.energy.ca.gov/programs-and-topics/programs/equitable-building-decarbonization-program

Subscription Channel: Decarbonization Topics

Docket: 22-DECARB-03

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