

California All-Electric Residential New Construction Incentive Programs



TRC's Single-Front-Door Approach



TRC is a consulting, environmental engineering, and construction management firm that implements a portfolio of residential all-electric new construction programs in California.

Core Services



Project Intake

Our team reviews each project to identify the best-fit incentive programs to **maximize funding.**



Technical Assistance

Our programs provide **no-cost technical assistance** for design and program application.



Collaboration

We collaborate with other program implementers to **help customers layer incentive opportunities.**

Why rebuild all-electric?

Cost Comparison: All-Electric vs. Mixed-Fuel Homes



\$500

Annual Savings

Average California utility savings
according to 2023 Rocky Mountain
Institute study



60%

**Lower Operating
Cost**

Department of Energy analysis
shows reduced annual costs with
heat pump systems



\$23K

Added Value

Average increase in home
value per 2023 Zillow analysis
of all-electric properties

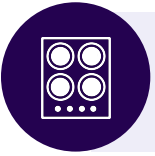


Title 24 Compliance

TRC's programs are a pathway to Title 24 compliance. The current Title 24 code requires:



Heat pumps and battery storage for many multifamily buildings



Electric cooktop-ready multifamily buildings



Solar panels in all single family and multifamily new construction



Thermostatic mixing valves in all new construction and major renovations



“Future-electric” wiring in every new home



Safety Features of All-Electric Buildings

All-electric buildings are often considered safer than gas-powered buildings for several reasons:

Reduced risk of fire and explosions



Improved indoor air quality



Simplified maintenance



Elimination of carbon monoxide poisoning



Energy efficiency and control





California Energy-Smart Homes



Program Eligibility

 **Be all-electric (new construction or full electrification retrofits for buildings 3 or fewer stories tall)**

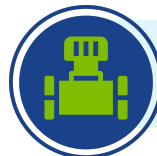
 **Receive electric service from PG&E, SCE, or SDG&E**

 **Complete program prerequisites:**

 **Heat Pump Space Heating**

 **Heat Pump Water Heating**

 **Induction Cooking**

 **Thermostatic Mixing Valves**

 **Heat Pump Space Heating**

 **Communicating Thermostats**

 **Battery Storage Readiness**

 **EV Charging Infrastructure**

Program Incentives



<i>Project Type</i>	<i>New Construction Incentives per unit</i>	<i>Alterations Incentives per unit</i>
 Single Family	\$2,500	\$4,250+
 Multifamily Low-Rise	\$1,400	\$2,200+
 Accessory Dwelling Unit	\$1,400	\$2,200+

Energy-Smart Homes caps participation of any applicant at 1,500 units/lots.

Affordable Housing Induction Exemption

- **Deed-restricted** affordable multifamily low-rise properties can request an induction cooking exemption for all-electric new construction and whole-building electrification alteration projects.
- Affordable housing projects with induction cooktops can earn a \$500 per dwelling unit bonus in addition to base incentives.



Advanced Technology Bonuses



New Construction Advanced Technology Bonuses

New Construction Advanced Technology Bonus Incentive per Enrolled Dwelling Unit	Single Family	Multifamily Low-Rise	ADU
Variable Capacity Heat Pump (VCHP)	\$300	\$300	\$300
Heat Pumps without Electric Resistance	\$300	\$300	\$300
Integrated Heat Pump Space and Water Heating	\$1,000	\$1,000	\$1,000
Low Global Warming Potential (GWP) Heat Pump	\$800	\$800	\$800
Passive House Certification	\$1,000	\$400	\$400
Thermal Energy Storage	\$ 1,500	\$ 1,200	\$ 1,200
Induction Cooking with Integrated Battery	\$ 3,000	\$ 3,000	\$ 3,000
Electrical Load Management	\$ 3,500	\$ 3,500	\$ 3,500
ERV or HRV with Bypass	\$ 2,000	\$ 1,500	N/A
Continuous ERV or HRV with Override	\$ 1,000	\$ 500	N/A



BUILD

Building Initiative for Low-Emissions Development Program



Why Participate in BUILD?



BUILD
Building Initiative for Low-Emissions Development Program
Program Fact Sheet

The Building Initiative for Low-Emissions Development (BUILD) Program is a residential building decarbonization program that provides incentives and technical assistance to support the adoption of advanced building design and all-electric technologies in new, low-income all-electric homes and multifamily buildings.

300 FREE HOURS
of technical assistance
for design, development,
and construction

\$2,000,000
program cap
per applicant

\$3,300
per unit for multifamily
average greenhouse gas
incentive

\$5,500
per home for single family
average greenhouse gas
incentive

Incentives
BUILD provides robust incentives consisting of four components:

New Adopter Design Award
BUILD provides eligible applicants constructing their first all-electric, low-income multifamily building (10+ units) with up to \$100,000 design award to defray direct design costs.

FOR QUESTIONS, EMAIL BUILD AT:
BUILD@energy.ca.gov

FOR MORE INFORMATION, VISIT:
BUILD Program Website
www.energy.ca.gov/programs-and-topics/programs/building-initiative-low-emissions-development-program

TOTAL INCENTIVE

- Base Incentive**
Greenhouse Gas Emissions Avoided
- Building Efficiency Incentive**
Percentage Above Code
- Incremental PV Incentive**
Flat Rate of PV Above Code
- Kicker Incentive**
Additional GHG Reduction Technologies

BUILD Program Fact Sheet

- Receive up to \$2,000,000 in incentives to reduce construction costs
- Receive up to 300 hours of no-cost technical assistance to overcome design or construction barriers, and to complete an incentive application
- Reduce long-term utility costs for both you and your residents
- Build your in-house capacity for all-electric design and construction
- Prepare for current and future state and local building electrification policies
- Layer funds with other programs and incentives
- Eliminate costs for gas infrastructure

What Projects Are Eligible?

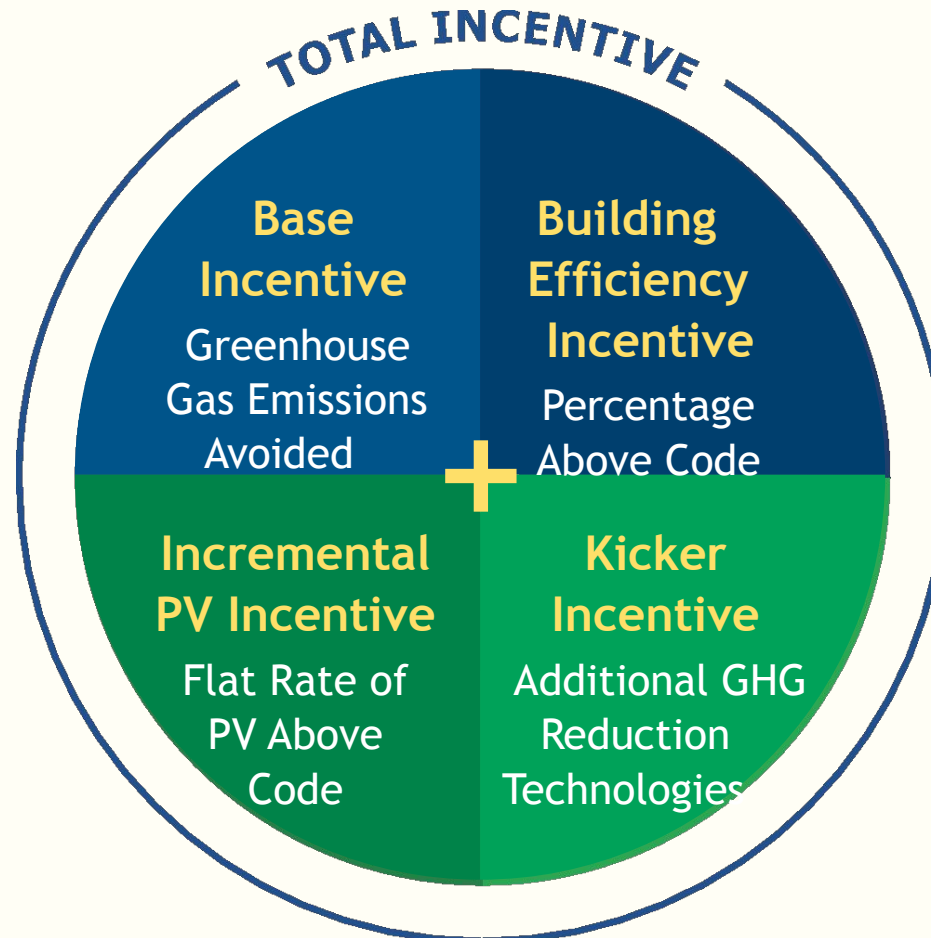
- Low-income residential housing new construction (single and multifamily) with flexible income restrictions depending on project location and type of housing
- All-electric with no hookups to the gas distribution grid
- Located in one of the following IOU gas service territories (PG&E is fully subscribed):
 - Southern California Gas
 - San Diego Gas & Electric
 - Southwest Gas Corporation
- Demonstrate modeled resident utility cost savings
- Compliance with all applicable laws (which can include prevailing wage requirements)

**All energy models
submitted for BUILD**
must be completed
by a Certified Energy
Analyst

BUILD

Incentives Overview

BUILD provides robust incentives consisting of four components:



Estimated Average Base GHG Incentives:

Single family home: \$5,500

Multifamily unit: \$3,300

Apply for Technical Assistance and Incentive Opportunities

Technical Assistance Application

<https://aeacleanenergy.tfaforms.net/f/build-application>



Program Guidelines, Incentive Application and More Information

<https://www.energy.ca.gov/programs-and-topics/programs/building-initiative-low-emissions-development-program>



BUILD

BUILD is administered by the California Energy Commission in collaboration with the California Public Utilities Commission. It is authorized by Senate Bill 1477 (2018, Stern) and funded by the four California gas corporations apportioned according to each gas corporation's percentage share of allocated Cap-and-Trade Program allowances. Reservations are approved on a first come, first served basis, and regional funding availability is based on the utilities' contribution to the program.