



California
**ELECTRIC
HOMES**



**INCENTIVE PROGRAM
OVERVIEW**

COST COMPARISON:

All-Electric vs. Mixed-Fuel Homes



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\$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

HOW DO INCENTIVE PROGRAMS WORK?

Compared to a rebate program, there are a few more steps involved in applying for and receiving incentives:

- Participants must enroll in the program **before construction is complete**. The best time to apply is when a project is in the permitting and/or construction drawings phase.
- Once construction completes, **enrolled projects submit documentation** to confirm the home was built to the program requirements.
- Then, the **program team will review the documentation** and follow up with any questions or requests for corrections.
- Once your technical review is complete, you can **request your incentive payment**.
- After our team approves the documentation, **we will submit your project for payment**.



SAFETY FEATURES OF ALL-ELECTRIC HOMES

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



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CALIFORNIA ELECTRIC HOMES



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Eligibility: All-electric residential new construction



- **Territory:** All of California
- **Building Type:** Single family, duplex, triplex, townhome, modular, manufactured homes, and ADUs
- **Certified Energy Analyst:** Title 24 documents must be authored by a professional that holds CABEC's 2019, 2022, or 2025 residential certified energy analyst (CEA) designation.

Program Timeline

- CalEHP will remain open until all funds are reserved
 - **\$17M** in incentives currently available
- Final date to receive Certificate of Occupancy is **10/01/2028**



CERTIFIED ENERGY ANALYST



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Who is your Title 24 Consultant?

- Are they a Certified Energy Analyst?

How find a CEA

- <https://cabec.org/find/>

Why a CEA is required

- The Certified Energy Analyst (CEA) certification signifies that a consultant understands the California Building Energy Efficiency Standards (Title 24, Part 6) and broader energy efficiency issues, is committed to providing quality service to clients, and is committed to conduct business in an ethical fashion.

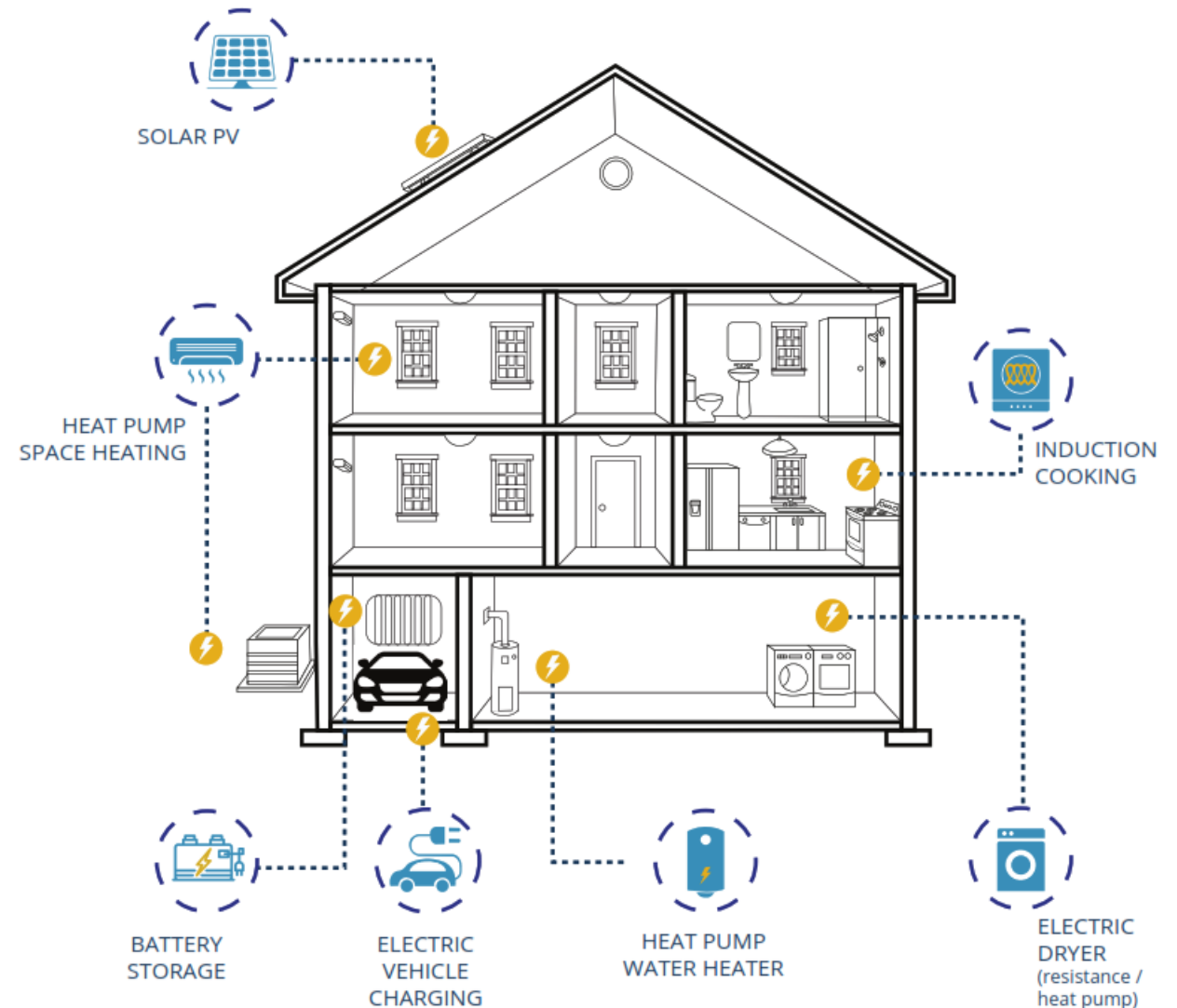


ELECTRIFICATION OPPORTUNITIES

CalEHP offers incentives to support the installation of energy efficient, all-electric and storage technology and prepare homes to respond to time-of-use electrical prices.



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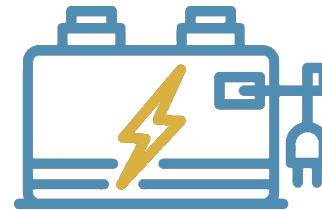
BASE INCENTIVES

Per Home Incentives:

Incentive Levels per Unit	2026 - 2028
Market-Rate	
Single family /duplex/triplex/townhome/modular	\$2,500
Manufactured homes	\$5,000
ADU	\$1,400

Battery Storage Incentives:

- \$250/kWh for battery storage



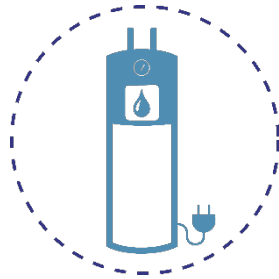
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INCENTIVE ELIGIBILITY

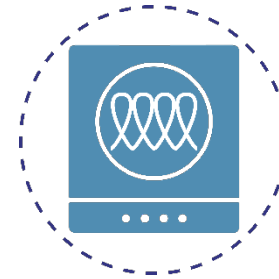
100% all-electric homes with the following:



Heat Pump Space Heating



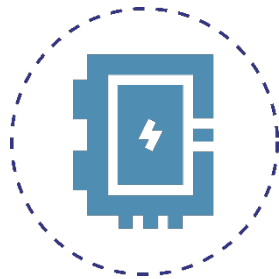
Heat Pump Water Heating



Induction Cooking



Thermostatic
Mixing
Valves*



Separation of
Lighting and
Plug Circuits**



Communicating
Thermostats

**Not required for ADUs or Manufactured Homes **Not required for Manufactured Homes*



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REQUIREMENT DEFINITIONS

- **Communicating thermostats** with the following capabilities:
 - Programmable and wi-fi capability that allows occupants to remotely adjust temperature with a smartphone or other device.
 - Auto Demand Response (ADR) capable – this is the shifting or shedding of demand for electricity resources during times of electrical grid stress or when the price of electricity is high.
- **Induction Cooking**
 - Induction cooking should be permanently installed as the sole cooktop technology. Portable burners are NOT permitted.
 - Cooktops with electromagnetic fields beneath the surface that create heat directly within cookware.
- **Heat Pump Space Heating and Heat Pump Water Heating**
 - HVAC and water heating equipment installed must be heat pump technology.
 - Technology that utilizes electric resistance as the primary source of heating is not eligible for the program.



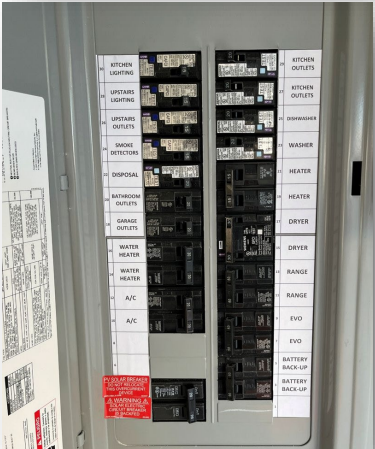
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REQUIREMENT DEFINITIONS



Thermostatic mixing valves (TMVs) for each heat pump water heater.

- TMVs precisely blend hot and cold water to a pre-set, consistent and safe temperature.
- TMVs increase the energy efficiency of the water heater by allowing the temperature of the water heater to remain higher.
- Not required for ADUs or manufactured homes



Separation of Lighting and Plug Circuits for improved resiliency and future upgrade potential. Goes beyond the requirements of the California Energy Code by requiring interior plug loads and lighting loads be on separate circuits, in addition to being separated from appliances.

- Any one circuit can only serve a lighting load, plug load, or single major appliance.
- Prevent circuit overload, tripped breakers, and potential electrical fires.
- Enable future smart panel installation without needing to rewire.
- Not required for manufactured homes



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BONUS INCENTIVES



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Bonus Incentives per Dwelling Unit	Single Family/Duplex/ Triplex/Townhome/ Modular	ADU	Manufactured Housing
Envelope Package	\$1,000	\$600	-
Mechanical Package	\$300	\$300	\$2,000
Envelope + Mechanical Adder	\$400	\$250	-
Smart Panel or HEMS	\$1,500	\$1,500	\$1,500
HPWH Controller	\$600	\$600	\$600
Resiliency/DR Ready Adder	\$1,000	\$750	\$1,000
ENERGY STAR®	-	-	\$1,000

BONUS INCENTIVES



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Envelope Package

- Prescriptive walls:
 - 2x4 R13+R10 Rigid, 2x4 R15+R9 Rigid, 2x6 R19+R7 Rigid, 2x6 R21+R5 Rigid (for climate zones 1-5 and 8-16).
 - 2x4 R13+R5 Rigid, 2x4 R15+R4 Rigid, 2x6 R19+R2 Rigid, 2x6 R21+R1 Rigid (for climate zones 6-7).
- Prescriptive high-performance attic-B:
 - R38 ceiling insulation + R19 below roof deck insulation.
- Weighted average window U-Factor of less than 0.26.
- Air sealing of ≤ 3.03 ACH50.

Projects enrolling with the envelope and mechanical package bonuses are eligible for the adder bonus

BONUS INCENTIVES



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Mechanical Package

- HVAC
 - Must meet CEE Tier 1 Requirements
- Water heating
 - Must meet CEE Tier 1 Requirements

CEE Tier 1 Requirements	SEER2	EER2	HSPF2	COP at 5F	Capacity Ratio	Load Management
Split ASHP Path A	≥ 16.0	≥ 9.8	≥ 8.5	≥ 1.75	≥ 65% at 5°F/47°F	AHRI 1380
Split ASHP Path B	≥ 16.0	≥ 11.0	≥ 8.0	≥ 1.75	≥ 50% at 5°F/47°F	AHRI 1380
Packaged ASHP	≥ 15.2	≥ 10.0	≥ 7.2	≥ 1.75	≥ 45% at 5°F/47°F	AHRI 1380

CEE Tier 1 Requirements	UEF	Compliance
Integrated HPWH	≥ 3.3	ENERGY STAR® Version 5.0
Split HPWH	≥ 2.2	ENERGY STAR® Version 5.0
120V Integrated HPWH	≥ 2.2	ENERGY STAR® Version 5.0

Projects enrolling with the envelope and mechanical package bonuses are eligible for the addr bonus

BONUS INCENTIVES CONT.



Smart Panel or Hard-wired Home Energy Management System (HEMS) Installation

- Measure the electrical usage at each circuit load in the home.
- Control the usage by turning the electric usage on or off from the user interface, typically a mobile device.
- Can integrate critical load management and backup power integration.



Heat Pump Water Heater Controller

- Install a NEEA Rated Tier 3 or 4 heat pump water heating unit that has a modular demand response communications port (eco port).
- Install a NEEA Rated Tier 3 or 4 heat pump water heating unit with an integrated controller.

BONUS INCENTIVES CONT.



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Resiliency/Demand Response Ready Adder

- Additional incentive for participating in both the all-electric and storage base incentive as well as installing these measures:
 - ✓ Envelope package
 - ✓ Smart panel or HEMS
 - ✓ HPWH controller
 - ✓ Storage



ENERGY STAR

- Manufactured housing projects with an ENERGY STAR certification.



Heat Pump Pool Heater

- Available for both single family and multifamily properties with pools.

TECHNICAL ASSISTANCE

Technical assistance can help you with the following and more:

Design/Equipment

- Project-related local government all-electric building code and permit requirements
- Title 24 compliance
- Project fuel switch from mixed fuel to all-electric
- Low-emissions building design and technologies
- Energy storage technology
- Virtual or in-person site visits as necessary

Program Processes

- Required program documentation
- Incentive sharing and/or layering



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PARTICIPANT JOURNEY: PRE-ENROLLMENT



*A project is considered enrolled when it receives an enrollment letter. **To receive incentives, lots must receive their certificate of occupancy after the project has been enrolled.** Lots that receive their certificate of occupancy before the project is enrolled are not eligible for incentives.



Program Training and Required Documents



- Participate in a program training call.
- Receive login instructions from your outreach associate to access your online application and upload required documentation.

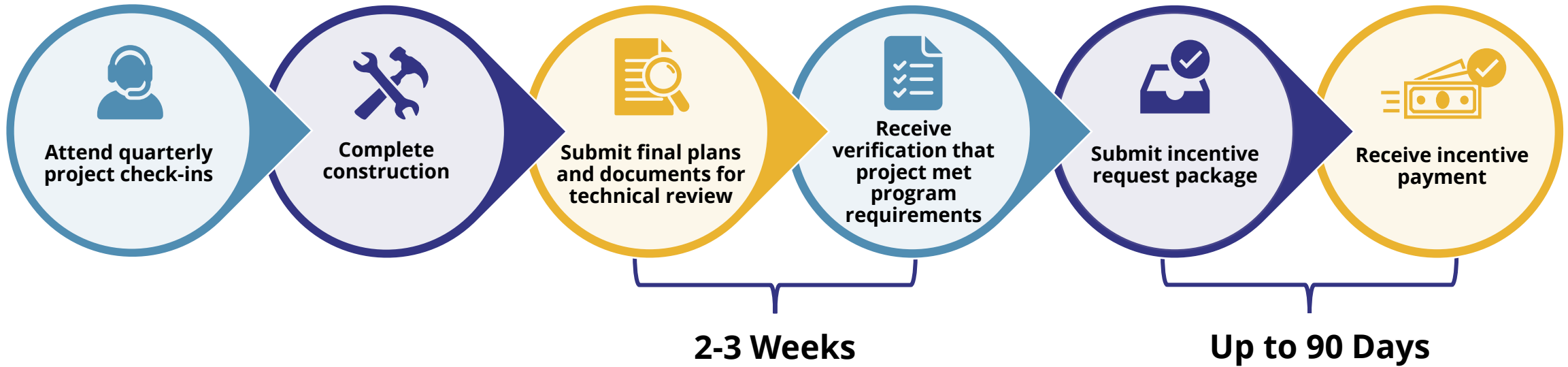


- Begin to submit [enrollment documents](#):
 - ✓ Lot list (Excel): Shows number of lots, address, plan type, and estimated completion dates
 - ✓ 2019 or 2022 code CF1Rs to verify most up-to-date files
 - CF1Rs must match the submitted energy models
 - Important: Must be watermarked by CHEERS and signed by a 2019 or 2022 residential CEA
 - ✓ Share HERS registry access with TRC Energy Services at www.cheers.org.
- Your outreach associate will introduce you to your operations associate.
 - The operations associate becomes your main point of contact until your project is complete and incentives are paid.



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Participant Journey: Post-Enrollment



*All projects eligible to receive incentives in a given year **must submit technical review documents** for each completed lot or building **by November 15th** to receive incentives from that program year.



Kickoff Call and Required Documents



- Attend program kickoff call with operations associate and technical reviewer. This call will cover project details, pre-requisites, and program process in greater detail.

- **Submit remaining [enrollment documents](#):**

- ☒ Energy models for each plan or building type (.bld or .ribd files) applying for incentives
 - The number of energy models submitted must match the number of plan types entered into the application. Ex. 3 plan types = 3 energy models
 - When a lot contains both a single family home and an ADU applying for incentives, the application must include two energy models
- ☒ W9 for the project payee
- ☒ Completed program enrollment form and terms and conditions (provided by TRC)
 - **Important:** Projects must submit complete applications a minimum of 8 weeks prior to certificate of occupancy (CoO) on the first building or lot.
- ☒ Electrical panel schedule
- ☒ Thermostatic mixing valve specification sheet
- ☒ Communicating thermostat specification sheet

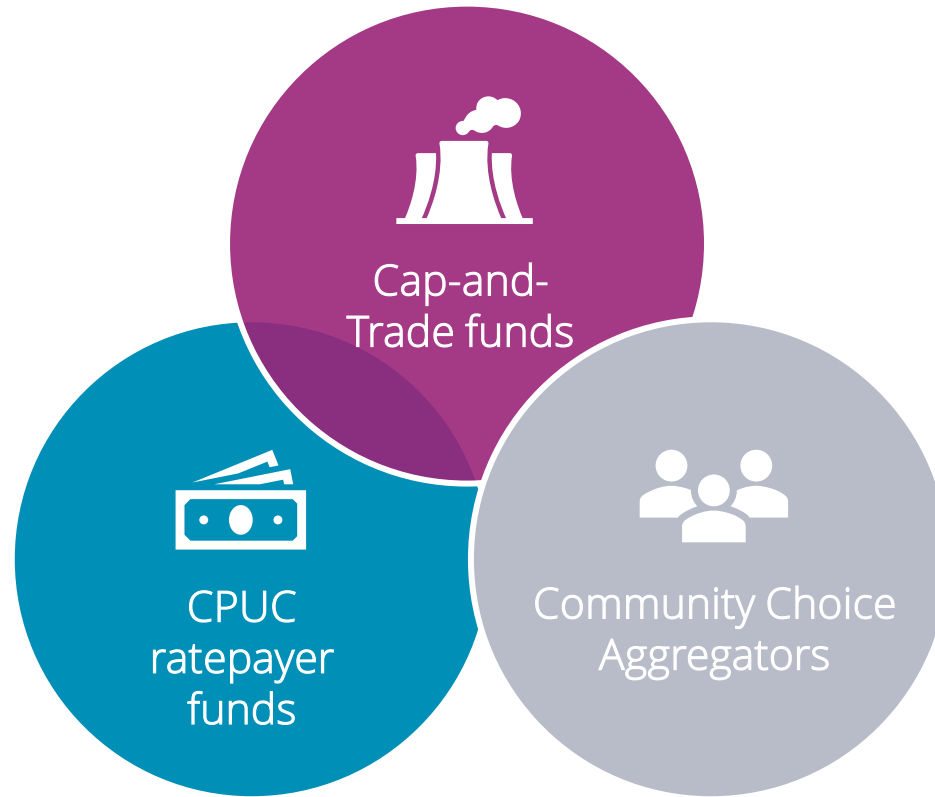


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INCENTIVE SHARING & LAYERING

Eligibility is based on:

- Project location
- Electric utility service provider
- Permit application date
(must be after June 1, 2023)



Our team helps maximize incentives for each project through sharing and layering



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RESOURCES AND NEXT STEPS

Next Steps



- You will receive a PDF version of these slides with you for reference.
- When you are ready to apply (Lot list, CEA signed CF1Rs or PERF1Cs, CHEERS shared with TRC Energy Services), notify the outreach associate.
- Outreach associate will share the application login instructions and documentation checklist with you.
- Outreach associate will introduce your operations associate to assist you with completing your application and enrolling in the program.

Program Contacts and Resources



- Phone: (833) 987-3935
- Email: caelectrichomes@trccompanies.com
- Website: <http://www.caelectrichomes.com/>
- Participant portal: <https://trc-ca-rnc-portal.anbetrack.com/>
- Newsletter sign-up: <https://calehp.ac-page.com/calehp-newsletter-sign-up>

RESOURCES CONTINUED

- [A Homebuyer's Guide to All-Electric Living in a Newly Built Home](#)
- [Switch is On Builder Content Portal](#)
- [Sales Reference for Agents](#)
- [Segregated Circuits Pre-requisite Fact Sheet](#)
- [Thermostatic Mixing Valve Pre-requisite Fact Sheet](#)



Questions?

THANK YOU!

The CalEHP team is here to help!



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PROGRAM COMPARISON



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Program Requirement	CalEHP	Homes LA
Title 24 Documents authorized by a CEA	X	Not required
Must Be All-Electric	X	Not required
Gas Capped	X	Not required
Heat Pump Space Heating	X	Required for Whole Home option
Heat Pump Water Heating	X	Required for Whole Home option
Heat Pump Dryer	Not required, no incentive available	Required for Whole Home option
Induction Cooking	X	Required for Whole Home option
Thermostatic Mixing Valves	X	Not required, no incentive available
Separation of Lighting & Plug Circuits	X	Not required
Communicating Thermostats	X	Not required
Energy storage	Not required, incentive available	Bonus incentive available
Above code envelope package	Bonus incentive available	Not required, no incentive available
Above code HVAC	Bonus incentive available	Required
Above code water heating	Bonus incentive available	Bonus incentive available
Smart Panel or HEMS	Bonus incentive available	Not required, no incentive available
HPWH Controller	Bonus incentive available	Not required, no incentive available
Resiliency/Direct Response Ready	Bonus incentive available	Not required, no incentive available
ENERGY STAR®	Bonus available for Manufactured Homes ONLY	Required for some equipment