

Program Pre-Requisites Photo Guide

Updated August 13, 2025



California Energy-Smart Homes Incentive Program

PHOTO GUIDE FOR REQUIRED PRE-REQUISITES

- Each of items shown in this guide is a mandatory requirement for participation in the Energy-Smart Homes incentive program and must be installed as specified.
 No exceptions.
- Omission or improper installation of any of the required items will result in the project being disqualified from the Energy-Smart Homes incentive program.
- · Disqualified projects will forfeit all program incentives. No exceptions.



Water Heating Requirements for Plumbing Installers

Heat Pump Water Heating

- All water heating systems must utilize heat pump technology as the primary method of heating water.
- Electric resistance water heaters are not eligible for program participation, regardless of size or configuration.
- Projects that do not meet the heat pump water heating requirement will be removed from the program and will forfeit all incentives. No exceptions.



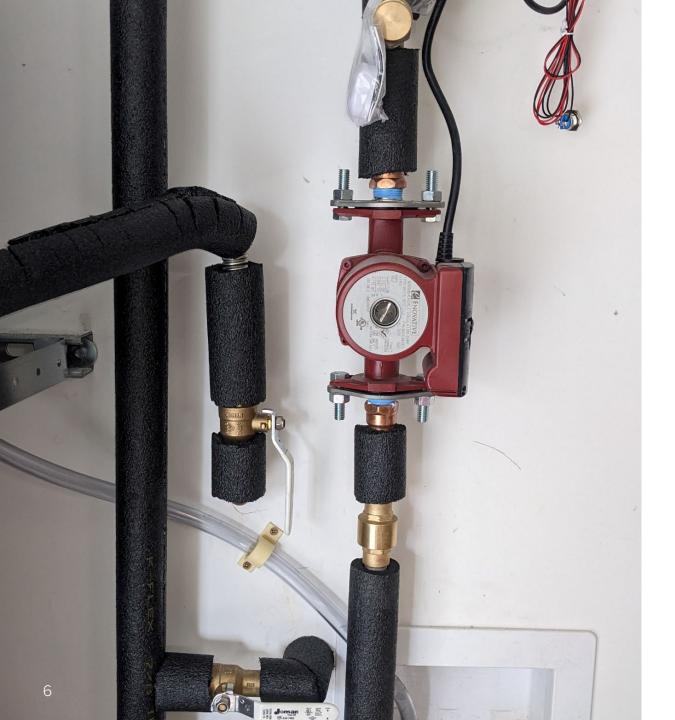




Thermostatic Mixing Valves

- The Thermostatic Mixing Valve (TMV) is required to mix hot and cold water to deliver safe water temperatures and prevent scalding at point of use.
- The TMV must be installed at each unitary water heater, not at individual faucets or shower heads. Do not confuse TMVs with point-of-use tempering valves.
- Installation must occur outside the water heater tank, where the hot water outlet and cold-water inlet lines merge.
- All TMVs must be ASSE 1017 certified.





Thermostatic Mixing Valve Exceptions

The program does not require a Thermostatic Mixing Valve (TMV) for the following project types:

- Accessory Dwelling Units (ADUs)
- Projects that include a recirculation loop as part of their water heating system design

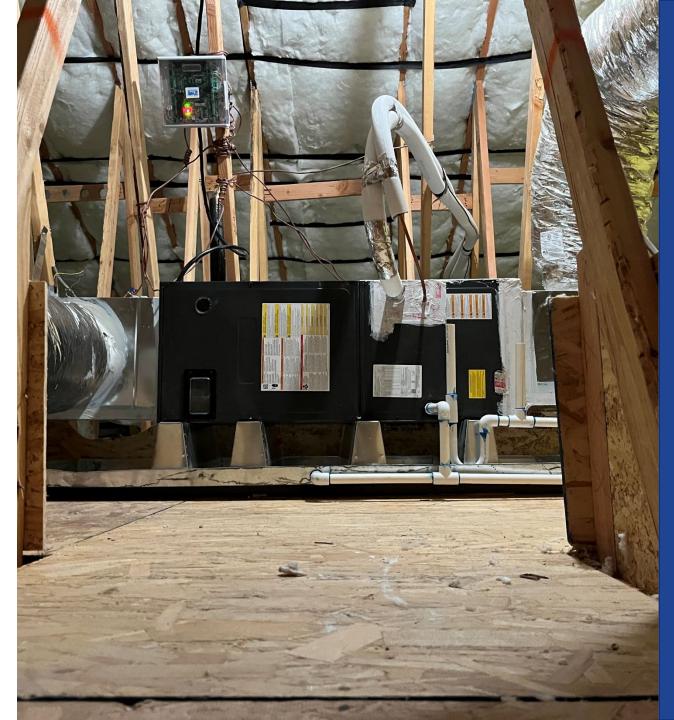


Space Conditioning Requirements for HVAC Installers

Heat Pump HVAC

- All installed HVAC systems must use heat pump technology as the primary source for both heating and cooling.
- Systems that rely on electric resistance heating as the primary method (such as baseboard heaters or electric furnaces) are not eligible for the program.





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Communicating Thermostats

- Thermostats must be programable and wi-fi enabled, allowing remote temperature adjustment with a smartphone or other internet-connected device.
- Thermostats must be Auto Demand Response (ADR) capable.
- Projects installing variable capacity heat pumps (VCHP) are exempt from the communicating thermostat requirement.
- Tenants are not required to enroll in an ADR program, but the thermostat must be technically capable of ADR participation to qualify.



Induction Cooking Requirement

Induction Range

- Induction cooking must be permanently installed and serve as the only cooking technology for the unit.
- Portable induction burners are not permitted and do not satisfy program enrollment requirements.
- Cooking appliances that rely on electric resistance heating (e.g. coil or radiant cooktops) are not eligible for the program.







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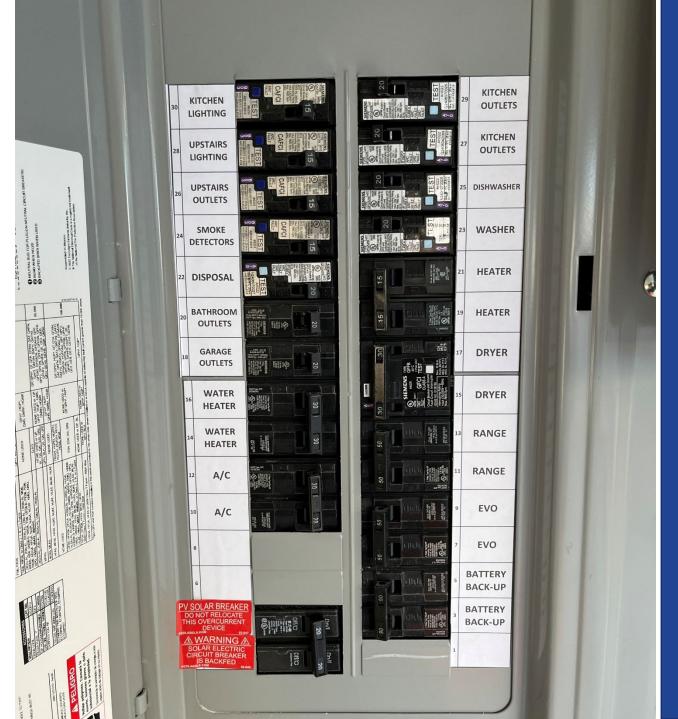


Electrical Panel Requirements for Electricians

Segregated Circuits

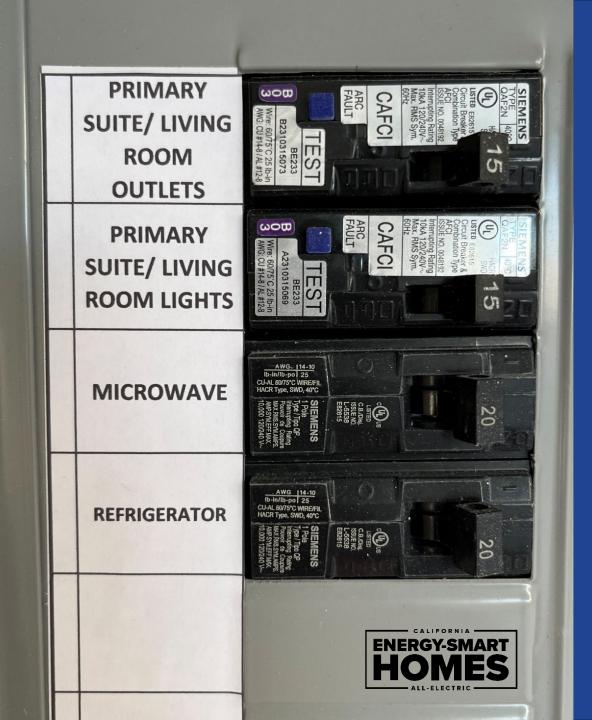
- Segregated circuits are required, meaning interior lighting loads and plug loads must be placed on separate electrical circuits.
- No single circuit can serve more than one load type, each circuit must be dedicated solely to either lighting, plug loads, or a single major appliance.
- Shared circuits across load types are not permitted and will result in disqualification from the incentive program.





Battery Storage Readiness

- A minimum of four branch circuits must be designated and collocated at a subpanel intended for connection to an energy storage system (ESS).
- At least three of the designated circuits must include:
 - One circuit supplying the refrigerator
 - One lighting circuit located near the primary egress
 - One receptacle outlet serving a sleeping area
- The fourth circuit is flexible and may serve any load at the project team's discretion.





Electric Vehicle (EV) Plug

- All lots/units must include a dedicated 208/240-volt branch circuit installed in the raceway.
- A 208/240-Volt EV plug must be installed in the garage or carport of each home.
- The branch circuit, overcurrent protective device, and plug must be rated for a minimum of 40 amps.
- For multifamily projects permitted before July 1, 2024, the 10% of EV Capable Spaces (per CALGreen code) must have 208/240-volt EV plugs.
- Projects permitted after July 1, 2024, must fully comply with CALGreen code 4.106.4.2.2 for EV charging infrastructure.

