

## Electric Vehicle (EV) Ready Homes: A Quick Guide for Contractors

### WHAT IS “EV READY”?

EV Ready means that the home is ready to have an EV charging station installed without major electrical work. Specifically, the home must be pre-wired for a Level 2 electrical vehicle charging station. “Level 2 charging” refers to the voltage that the electric vehicle charger uses (240 volts). Level 2 chargers come in a variety of amperages typically ranging from 16 amps to 40 amps. The two most common Level 2 chargers are 16 and 30 amps, which also may be referred to as 3.3 kW and 7.2 kW respectively.” (from evsolutions.com)



- Mechanically secured
- Physically protected
- Installed by a licensed contractor
- Required permit (Permit copy not required to be submitted to HPP)
- Must be installed inside the garage (carports included)

### PROCESSING THE REBATE

There will be a place on the JRT Menu Tab to check the box indicating that the project is applying for the EV Ready rebate.

The JRT Job Info Tab will ask for the garage size (number of cars), length of run (from the circuit breaker to the charger junction box or plug), and the location of the hook up (as you look into the garage from the front of the house).

At the end of the install, the junction box or plug must be labeled with a SMUD electric vehicle ready sticker.

### SMUD HPP AND EV READINESS

EV Readiness will be treated as an HPP measure similar to any other HPP measure and can qualify for a \$500 rebate.

#### Code compliance:

- Must meet current California electrical code & National Electrical Code (NEC) – Article 625
- Local jurisdictions may have additional requirements

#### Installation Requirements:

- Breaker and grounded AC outlet installation
- Locate on permanent surface within 10' of on-site parking space
- Require a SMUD-branded label to inform the customer that the spot is EV-capable
- Dedicated 240 volt single phase 40 amp circuit with ground wire. From the electrical panel to a junction box within 10' of on-site parking space.
- Proper wire size



### FOR MORE INFORMATION

For more information on SMUD’s EV Ready program, visit:

<https://www.smud.org/en/residential/environment/plug-in-electric-vehicles/charging-a-PEV.htm>

For more information about energy efficiency incentives available through SMUD, visit: <http://hpp.smud.org/> or email Jim Mills at: [james.mills@smud.org](mailto:james.mills@smud.org)