



EV HOME CHARGER INSTALLATION GUIDE

Buying a new vehicle can be tough, understanding how to install a new EV charger shouldn't be. Use Santee Cooper's EV Home Charger Installation Guide to help make the process easier.

First, determine which type of charger you want:

☐ **Level 1: 120 Volts**

Level 1 stations are a good option for plug-in hybrid electric vehicles. Most manufacturers offer a Level 1 charging cord when you purchase your EV, so there are normally no added costs for Level 1 charging. Level 1 stations usually don't require an upgrade to your panel, and you can plug the charger into any standard wall outlet in your home. These stations can typically give your vehicle 3-5 miles of range per hour.

☐ **Level 2: 240 Volts**

Level 2 stations are the best option for fully electric vehicles. These stations give 12-60 miles of range depending on the amperage of the station and the acceptance rate of the vehicle. Level 2 stations typically range in price from \$500 to \$1000. You will need an electrician to professionally install a dedicated circuit for your charger.

To install a level 2 station, follow the steps below:

1. Determine which charger you want

- a. Higher amperage stations may charge quicker, but the extra cost may not be necessary. Most EV drivers can comfortably charge on a 32- or 40-amp level 2 station.

2. Decide where the charger will go

- a. Charger installations closer to the service panel will be cheaper than those that are farther away.
- b. If installing a station outside, make sure your station and service are rated for outdoor use.

3. Call an electrician

- a. Call your preferred electrician to complete the installation of the service for the station. A few things that you may want to discuss with your electrician:
 - i. The type of charger that you have chosen
 - ii. Upgrades to the electrical panel
 - iii. Location of the charging station
 - iv. Cost of the installation (installations often range from \$500-\$2,000)

4. Enjoy your new EV!

- a. Enjoy driving around your EV with power generated locally by Santee Cooper.
- b. Make sure to check the Santee Cooper EV page periodically for new programs and offers for EV customers.