

Steps to installing your bidirectional EV system



Working with your contractor and PG&E

PG&E is here to help you through the process of installing a bidirectional electric vehicle system and connecting it to the electric grid. Though your contractor handles most of the steps, we recommend that you play an active role. Understanding the key steps, roles, and responsibilities can set expectations and help you effectively communicate with your contractor.



YOU: You choose the vehicle and charger you would like to purchase and select a qualified contractor.



CONTRACTOR: Your contractor helps ensure your site can support your chosen system, walks you through the necessary forms, and installs your system safely.



PG&E: Reviews your interconnection application, performs an engineering review, completes any necessary system upgrades, and gives final permission to operate.

What to expect from your contractor

- Electrical audit.** In step one of the [V2X Checklist](#), the electrician will assess your electrical system to determine what work will be needed to install your system. Here are questions to help guide you through the discussion/process:


To find out if your system has the capacity to support the added load of your charger:

- How many amps can my electrical panel support?
- How many amps can my electric service support?

If they say upgrade work will be required:

- What equipment upgrades will be needed?
- Will additional construction work be needed? (e.g., trenching, load relocation)
- If equipment upgrades or added construction work are needed, how much will it cost?
- How much of the work will be performed by your electrician, and who will manage the remainder of the work?
- How long will each part of the project take?

- Building permits.** As part of step four of the V2X Checklist, the electrician will need to get the design for your system approved by the Authority Having Jurisdiction (e.g. your city or county building department). This approval is needed before work can start and could take a few days to several weeks.

- Installation.** Remember to have your installer complete [this affidavit](#) that verifies their Electric Vehicle Infrastructure Training Program certification and that they have met pilot requirements. [Contractor FAQs here](#) 

- Interconnection.** Before you can discharge power from your vehicle while connected to PG&E's electrical system, you will need to apply for interconnection for your new bidirectional system. [Form 79-1095](#) will allow your installer to submit the required paperwork on your behalf. [Contractor FAQs here](#) 