

## **Bi-directional Charging**

Imagine a future where all vehicles are clean electric vehicles and can make our power grid more reliable, save customers money and help the environment. It's just down the road. PG e is working with industry leaders like BMW Forward and GM to set the stage for bi-directional charging so that EV batteries can be used to make power outages a thing of the past. Here's how it works. Every EV has a battery and the energy it stores can be returned to the grid. At critical moments, EV chargers can use an inverter to convert direct current from your car battery into alternating current that feeds your home and the greater grid. This system can be configured to either power your whole property or only essential items during a power outage. Smart energy management software can automatically reserve a portion of your battery's charge so that you always have enough for your transportation needs. Bi-directional charging will turn EVs into a clean, reliable, and affordable backup for all of us. And pg e is accelerating California's EV future