

EV CHARGING 101

What to Know About Charging Up



CHARGING LEVELS



LEVEL 1

- Plug into a 120-volt grounded outlet
- Adds roughly 4 miles of range per hour
- Best for topping off your car's charge at home
- Great for overnight charging



LEVEL 2

- Plugs into a 240V outlet
- Adds from 15 - 30 miles per hour of charge
- Fully charge in 4 hours
- Ideal for charging at home, work, or on the road



CHAdeMO



Tesla (NACS)



CCS

DC FAST CHARGING (LEVEL 3)

- Public Charging
- Fully charge within 20 minutes to 1 hour
- Adds 240 miles per charging hour
- Tesla has a fast charging network specific to its cars with a different plug shape

QUICK FACTS



There are over **70,000 public charging stations** & **123,000 charging ports** in the U.S.



Chargers range from simple plug-and-go to **smart chargers** that can be programmed to **start and stop when you choose**



The **average commute** for Americans is 35 miles per day

HOME CHARGING

In most cases, home charging is cheaper than public charging. You can choose whether to plug in directly to an outlet (Level 1) or install a Level 2 charging station at your home.

Typically, home charging stations cost between \$300 - \$1,000 plus the cost of an electrician to install it. Check with your utility or a local energy conservation organization for recommendations on contractors and electricians who can install your station.



CHARGING NETWORKS

When charging at a public station, you'll likely use a charger that's serviced by a network. Many have membership programs or subscriptions (you can download the app on your phone) and you can also pay as you go.

Rates vary by network - some charge by session, per kWh, by the hour and some are free.

Membership with these networks usually includes a member discount or if you're not a member you can call the 24-hour customer service line to pay on the spot.

Blink Charging, ChargePoint, Electrify America, Tesla, and EVgo are the most common network providers in the U.S.

Finding Public Stations

Resources and apps like PlugShare, Chargeway, or the Alternative Fuels Data Center give real-time information on charging station locations, pricing, nearby amenities, and availability. Google Maps also now shows charging station locations.

Charging stations can be anywhere - at grocery stores and shopping centers, rest stops on the highway, and even at your workplace. You can run errands and grab a meal while you're charging up, plus some charging stations can communicate with your car and phone so you control when charging occurs.