

What types of electric cars are available?

There are primarily three types:

- **All-electric cars** that run on batteries and have to be recharged when the batteries run flat.
- **Plug-in hybrids** that rely on electricity from the wall and a gasoline engine.
- **Extended-range electric vehicles**, such as the Chevrolet Volt, that are a type of plug-in hybrid that runs purely on electricity, but when the battery runs out, an on-board engine recharges it. The gasoline engine acts only as a generator to provide electricity for longer trips, and it does not directly drive the wheels.

What models are available?

The Nissan Leaf, Mitsubishi iMiev, Ford Focus Electric, and Tesla Model S are available nationwide, as are plug-in hybrids such as the Chevrolet Volt, Ford Fusion Energi, and Ford C-Max Energi.

Other electric cars, such as the Chevrolet Spark EV, the Fiat 500e, Honda Fit EV, Toyota RAV4 EV, and the upcoming Volkswagen eGolf, are available in limited numbers only in California and select other states to meet state mandates for electric vehicles.

How much do they cost?

Prices range from \$23,000 for the Mitsubishi iMiev to over \$100,000 for the Tesla Model S. Most cost around \$30,000. All pure EVs are eligible for a \$7,500 federal tax rebate in addition to other state and local tax credits.

How far can I drive?

Most of the pure electric cars have a range of about 100 miles between charges. Some models, such as the Tesla Model S, will have larger optional batteries that can go up to a claimed 300 miles. Others, such as the Chevrolet Volt and the Fisker Karma will only be able to go short distances (less than 40 miles for the Volt) on electricity, but have gas engines that can carry them farther when the need arises.

What type of charger do I need?

- **Level 1 is a 110-volt charger** that can charge a plug-in hybrid or extended-range electric vehicle overnight, but would take more than 24-hours to charge a pure electric vehicle from empty. They will usually be built into the vehicle and can be used for “opportunity charging” when another type of charger isn’t available.
- **Level 2 is a 220-volt charger.** A Level 2 charger can charge a pure electric car such as the Nissan Leaf, Mini-E, or the coming Ford Focus EV in 8 to 10 hours.
- **Level 3 is known as fast charging.** These chargers will primarily provide direct current at up to 500 volts. Level 3 chargers will be installed in public places and can provide an 80 percent charge to a full electric car in under a half hour.

How do I find a spot to charge?

Our real-time network information is available on our map at www.kcpl.com/CleanCharge, on the ChargePoint mobile app and in the navigation units of top selling EVs.

What can I do with my Clean Charge account?

Sign up with ChargePoint to access stations on the KCP&L Clean Charge Network and the over 21,000 EV charging spots nationwide on the ChargePoint network. As a ChargePoint member, you'll benefit from 24/7 support, an advanced mobile app to help you find available stations, notifications about your charging status and much more. You can also save your favorite station locations, track your energy use, gas savings, and greenhouse gas emissions avoided. Plus, view your monthly statements to track all your charging activity. Sign up at www.kcpl.com/CleanCharge.

How do I start a charging session?

You can easily start a session with your KCP&L Clean Charge Network card, using the ChargePoint mobile app, with an RFID credit card or by calling driver support at **(888) 758-4389**. The 888 number is listed on each ChargePoint station and on the back of your KCP&L Clean Charge Network card.

How much will I pay to charge my car?

The KCP&L Clean Charge Network stations are free until 2017 through partnerships with companies at host locations and with Nissan Motor Company.

How do I obtain or activate a Clean Charge Network card?

You can sign up for a free KCP&L Clean Charge Network card online at kcpl.com/CleanCharge. After signup you will receive two free cards within 7-10 business days. Once they arrive, you must log in to your account and activate your cards. Go to My Account and select Manage ChargePoint Cards. Make sure you have your cards on hand to enter their serial numbers and select save.

What are notifications, and why are they important?

Notifications help you stay aware of your electric vehicle charging status at all times. You can set up mobile and email notifications for:

- When your car is **fully charged**.
- When charging is **interrupted**.
- When the power to your car is **reduced**.
- For charging station **reservation status and reminders**.

How are my greenhouse gas savings computed?

We use Environmental Protection Agency (EPA) estimates in a formula that derives the greenhouse gas (GHG) emissions you've prevented, based on how much you've charged your EV, which is a measure of how many miles you've driven on electricity instead of gasoline. Here are the estimates we use in our calculation:

- **Driving an internal combustion engine (ICE)** vehicle emits 8.8 kg of CO₂ per gallon (19.4 lbs CO₂/gal).
- The **US passenger car** average fuel efficiency for ICE vehicles is 23.9 mi/gal (mpg).
- An **electric vehicle** has an average efficiency of 3.0 mi/kWh. [Note: This is our estimate based on data for several types of electric vehicles.]
- The **US average for emissions** from generating electricity to fuel electric vehicles, is 1.55548 lbs CO₂/kWh.
- CO₂ is 95% of **GHG emissions**.