



# Cost of charging electric car at home

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Electric vehicles, or EVs, are an increasingly popular choice for vehicle purchases. But before you buy an electric car, you may want to look at how much it will cost to charge. After all, how much will an EV add to your electricity bill? Here's how to calculate the costs of charging your EV at home.

About 80% of EV charging happens at home, according to Energy.gov. So how much does it cost to charge an electric car at home? Well, that depends on the type of charger you have and the type of vehicle.

It will take around six hours to fully charge your car. That's based on 40kWh divided by 7.2KW which is 5.55 hours. We rounded up to six hours because your charging efficiency slows down as the battery charges.

That 5.55 hours of charging time will use around 40 kWh. That's the number of kilowatt hours based on the KW of the electrical item (in this case, 7.2 kW) multiplied by the number of hours (in this case, 5.55 hours).

So now we know how many kWh we'll use to charge an EV. Now to calculate how much that will cost.

The Texas average electricity rate is 11.4 cents per kwh, according to EIA.gov. That means it will cost you around \$4.56 to charge an EV at your Texas home. ( $40 \text{ kWh} * .114$ )

(Psssst. You'll notice that it's the same answer we got in our quick math approach highlighted at the top of this page.)

To calculate how much an EV will add to your electric bill annually, let's assume you get 200 miles per charge, and you drive 13,500 miles a year, which is the US average. That's 68 charges per year. If you do 80% of your charging at home, you'll charge your vehicle at home 54 times each year.

Since EVs are so popular in Texas, and electricity is deregulated in most of the state? You can easily find special EV charging plans in Texas. You can find out about Texas EV charging electricity plans, plus read reviews of the best EV charging plan on our website.

This is one of the big myths about buying an electric vehicle; that electricity for electric cars is free.

This idea may have come out of some of the earlier promotions that EV dealers ran. Some of them offered free electricity for your EV charging, through a network of charging stations.



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Another reason people may think this? Most EV owners charge their car at night. In some electricity markets, such as Texas, there can be an excess of wind generation on the grid at night. Since electricity can't be easily stored, it's a use it or lose it issue. The excess supply at night is sold at very low prices. Wholesale electricity prices on the grid can even go negative if there's a surplus of power.

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