

# Save money with the EV Program

You'll charge your electric vehicle at home almost every day. Why not pay less every time you plug in?

## Benefits

- \$50 per kilowatt (kW) rebate for a 240-volt Level 2 home charger. Maximum rebate of \$500. Average charger is 6.6 kW, which qualifies for a \$330 rebate.
- The money-saving off-peak rate, which is about 40-50 percent lower than the standard electric rate.

## Qualifying Vehicles

- All-electric vehicles
- Plug-in hybrid vehicles
- Electric golf carts and ATVs
- Motorcycles
- Fork lifts
- Zambonis

## Requirements

- Level 2 charger rated at 240 volts
- Charger must be on direct load control under North Star Electric Cooperative's off-peak program.

## Scheduled charging times

To receive the off-peak rate, your charging times will be:

- October - May: noon to 5 p.m. and 11 p.m. to 7 a.m.
- June - September: midnight to 10 a.m.
- \* *Load control up to 16 hours per day.*



# About

## Electric Vehicles (EV)

Want to purchase an electric vehicle but not sure where to begin? There are many types of vehicles to choose from depending on your needs and driving habits.

### Top selling all-electric vehicles (2016)

Make (Model)	Approx. 240-volt charge time	Approx. 120-volt charge time	Driving distance per charge
Tesla (Model S)	30 min. – 2 hrs.	N.A.	208 miles
Nissan (Leaf)	4 hours	20 hours	107 miles
BMW (i3)	2 hours	14 hours	80 miles
Ford (Focus)	4 hours	20 hours	96 miles

### Top selling plug-in hybrid vehicles (2016)

Make (Model)	Approx. 240-volt charge time	Approx. 120-volt charge time	Driving distance per charge
Chevrolet (Volt)	2 hours	13 hours	53 miles
Ford (Fusion)	2.5 hours	8 hours	21 miles
Toyota (Prius)	1.5 hours	3 hours	11 miles

Find public charging stations in your area with [www.plugshare.com](http://www.plugshare.com).



## Electric Vehicle Program



Leading the CHARGE

\$50 per kilowatt rebate for Level 2 chargers



# Benefits of Electric Vehicles (EV)

## Save money

Under North Star Electric Cooperative's off-peak rate, it costs about 65 cents to drive an electric vehicle the same distance that an average car can go on a gallon of gasoline. The stable rate does not fluctuate like the price of gasoline.

## Less maintenance

Electric cars do not require oil changes, because there is no oil used to run an engine. They do not require belts, air filters, spark plugs or many other parts that need occasional replacement in a gasoline car.

## Reduce oil dependence

Charge up with clean, American-made electricity.

## A smooth ride

You'll enjoy the silent motor and smooth acceleration of an electric vehicle.

**Receive a \$50 per kilowatt (\$500 maximum) rebate for installing a 240-volt Level 2 charger on North Star Electric Cooperative's off-peak program. The average charger is 6.6 kW, which qualifies for a \$330 rebate.**

North Star Electric Cooperative  
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[www.northstarelectric.coop](http://www.northstarelectric.coop)

# Q & A: Charging my EV



## How far can you drive on a fully charged battery?

All-electric vehicles currently range from 62 miles to more than 290 miles (Tesla Model X) per charge. Hybrids typically range from 10 to 53 miles on the electric battery.

## How long until the average battery needs replacement?

The lifetime of the battery varies greatly between models and is impacted by charging and driving practices. It is important to check with the manufacturer's warranty before purchasing the vehicle. Most vehicles have a 10-year battery warranty, while others are through the life of the vehicle.

## Do EV batteries perform well in the winter?

Both gasoline and electric vehicles have lower efficiencies at colder temperatures. For EVs, cold weather can impact the distance you can travel per charge by 25 to 50 percent. Larger batteries, however, have less performance loss issues. Still, today's EVs work well in cold climates, and new models will be even better. It is recommended that you store your EV in a garage during the winter and allow it to heat up while still plugged in.

## How do I install a charger?

Installing a Level 2 charger is a relatively simple process, much like installing the wiring for a clothes dryer. The average cost to purchase and have an electrician install a Level 2 charger is about \$1,000.

## How long does it take to charge an electric vehicle?

Charging times vary based on the vehicle and voltage of the charging station.

- **Level 1 – 120 volts**

*Charging a vehicle at Level 1 means plugging into a standard 120-volt outlet. All drivers can charge their electric vehicle at Level 1, although it takes significantly longer (up to 20 hours) than other charging options.*

- **Level 2 – 240 volts**

*Using 240-volt service, a dead battery can be fully charged in approximately 2 to 4 hours. Some models can completely charge in as little as 30 minutes. The installation of a 240-volt charger qualifies you for a \$50 per kilowatt (kW) rebate and the money-saving off-peak rate.*

- **Direct Current (DC) Quick Charging**

*This charging option is typically only available for public charging at gas stations or along major transportation corridors. On average, the DC charger can add 40 miles of range for every 10 minutes of charging.*

## Are rebates available?

Current federal consumer tax credits are available ranging from \$2,500 to \$7,500 based on the size of the vehicle's battery. Most insurance carriers offer discounted rates. North Star Electric Cooperative also has incentives outlined in this brochure.

Leading the CHARGE 