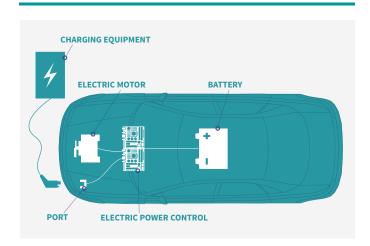
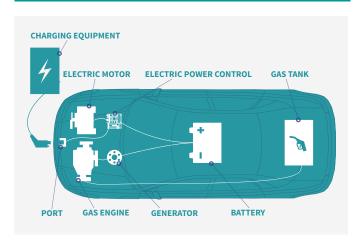
ELECTRIC VEHICLE FACT SHEET

Electric vehicles plug in to the grid for fuel. They use electricity as either their primary fuel, or in collaboration with a conventional engine to help improve its efficiency. There are two types of electric vehicles. Plug-in hybrid electric vehicles are powered by a combination of battery power and a gasoline engine, while fully-electric vehicles, often called battery-electric vehicles, are powered solely by electric energy stored in the battery.

PLUG-IN HYBRID ELECTRIC VEHICLE

BATTERY ELECTRIC VEHICLE





CHARGING S T A T I O N S

Charging stations can be classifed into three levels. Electric vehicles come with a Level 1 charging cord that can be plugged into a properly grounded 120 volt outlet. Level 2 and DC Fast Charge stations must be purchased and installed by an electrician.



VOLTAGE:

120V 1-Phase AC

AMPS:

12-16 Amps

CHARGING LOADS:

1.4 to 1.9 kW

CHARGE TIME FOR VEHICLE:

3-5 Miles of Range Per Hour



VOLTAGE:

208V or 240V 1-Phase AC

AMPS:

12-18 Amps (Typ. 30 Amps)

CHARGING LOADS:

2.5 to 19.2 kW (Typ. 6.6 kW)

CHARGE TIME FOR VEHICLE:

10-20 Miles of Range Per Hour



VOLTAGE:

208V or 480V 3-Phase AC

AMPS:

<125 Amps (Typ. 60 Amps)

CHARGING LOADS:

<90 kW (Typ. 50 kW)

CHARGE TIME FOR VEHICLE:

80% Charge in 20-30 Minutes

ANNUAL FUEL COST SAVINGS*

	<u></u>		\$	\bigcirc
Miles Per Year	Avg. Miles Per Day	Gasoline Cost Per Year	Electric Cost Per Year	Annual Savings
10,000	27	\$917	\$333	\$584
12,000	33	\$1,100	\$400	\$700
15,000	41	\$1,375	\$500	\$875
20,000	55	\$1,833	\$667	\$1,166
25,000	68	\$2,292	\$833	\$1,459

*Assumptions: Cost per Gallon Gasoline \$2.75, Cost per kWh - \$.10

FREQUENTLY ASKED QUESTIONS

Why drive electric?

- Save money on gasoline and maintenance costs
- Enjoy great vehicle performance with a smooth, quiet ride and quick acceleration
- Be environmentally-friendly by reducing vehicle emissions
- Support energy independence by purchasing domestically-produced electricity

Who makes electric vehicles?

There are currently 18 major car manufactures that offer electric vehicle models. They include Audi, BMW, Cadillac, Chevrolet, Fiat, Ford, Honda, Hyundai, Kia, Mitsubishi, Mercedes, Nissan, Porsche, Smart, Subaru, Tesla, Toyota, Volvo and Volkswagen.

How practical is it to drive an electric vehicle every day?

Most battery-electric vehicles have a range of around 100 miles per charge, however 200 mile range cars are quickly entering the market. Plug-in hybrid electric vehicles get between 20 to 50 miles of all electric range and then switch over to a hybrid gasoline engine. The average driver travels about 30 miles a day, which is well within the range of the electric vehicles currently on the market. Longer trips can be accommodated by the rapidly expanding network of public charging stations, which puts many destinations within reach of an electric vehicle.

What other benefits do electric vehicles provide?

Electric vehicles help to improve local air quality because they have no tailpipe emissions when operating in all-electric mode. They also require less maintenance per mile driven and have a reliable cost of operation due to the relatively stable price of electricity compared to the volatility of gasoline prices. Additionally, many utilities are developing rate structures for owners of electric vehicles to reward them for charging their vehicles overnight when the demand for electricity is typically at its lowest.

For more information on electric vehicles and additional resources, please visit dom.com/electricvehicle.

Connect with Dominion Energy by:

(888) 366-8280

dominionenergy.com





(919) 857-9000

🔀 info@advancedenergy.org

梦 @AEatWork



