



MOR-EV

Massachusetts Offers Rebates for Electric Vehicles

Electric Vehicles 101

Why drive an electric vehicle (EV)?

Driving an electric vehicle offers tremendous benefits...

Clean energy, national security and fuel savings – Use domestically produced electricity that costs 1/3 less than foreign oil

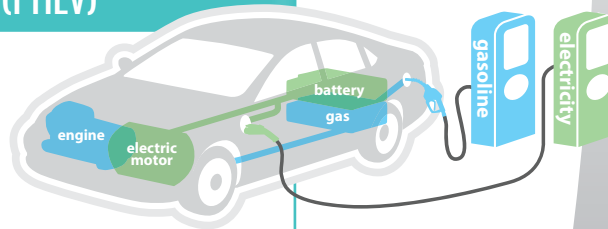
Driver satisfaction – Experience instant torque, quick acceleration and a whisper quiet and simple drivetrain with fewer moving parts to repair or replace

Environmentally friendly – Fewer greenhouse gases and smog-producing pollutants than a gas-powered vehicle

What are the different types of vehicles?

Plug-in hybrid electric vehicle (PHEV)

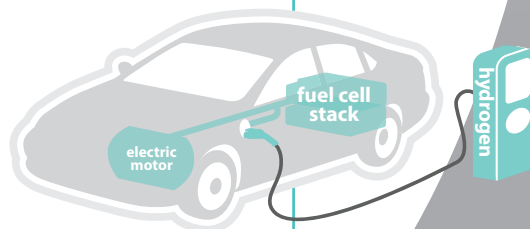
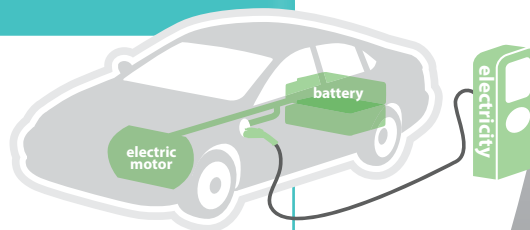
Uses both an electric motor, powered by a battery, and an internal combustion engine that runs on gasoline and can be plugged in to an electrical outlet to recharge



Zero-emissions vehicle (ZEV)

All of the following vehicles have zero tailpipe emissions.

- **Battery electric vehicle (BEV)** – uses an electric motor powered by a battery
- **Fuel cell electric vehicle (FCEV)** - uses a fuel cell, instead of a battery, or in combination with a battery or supercapacitor, to power an electric motor



Are there different types of charging stations?

Charging Types

Level 1 (120 volt)

Typical household outlet

Level 2 (240 volt)

Household outlet used for electric dryers

DC Fast Charge (480 volt)

Commercial chargers used for quick charging

How long does charging take?

Charging Time

Level 1 = 40-50 hours

Level 2 = 4-10 hours

DC Fast Charge = 20 minutes to 1 hour for an 80% charge

Based on a 60-kilowatt-hour battery.

For more details, visit:

transportation.gov/rural/ev/toolkit/ev-basics/charging-speeds

Public Charging

For a list of Level 2 and DC Fast Charging stations, visit:

- plugshare.com
- afdc.energy.gov/stations
- na.chargepoint.com/charge_point

Additional information about EVs and EV rebates

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