

# ELECTRIC VEHICLE 101



No matter how often you drive, you can be part of the growing electric vehicle movement in New York. Electric vehicles improve local air quality, protect the environment, and save you money.

## WHAT ARE ELECTRIC VEHICLES?

Electric vehicles (EVs) run on electricity that is stored in on-board batteries. They draw electricity from electrical sources, such as home outlets and EV charging stations. EVs are available in many sizes and driving ranges. Most models have more than 250 miles of range and have all-wheel drive capabilities. There are three different types of EVs: **battery electric vehicles** (BEVs), **plug-in hybrid electric vehicles** (PHEVs), and **hybrid electric vehicles** (HEVs).

- **PHEVs** use batteries to power an electric motor and also have a gas-powered internal combustion engine, making them hybrids.
- **HEVs** have engines and an electric motor, but do not allow a plug-in charge.
- **BEVs** *only* have batteries and create less pollution than vehicles using gasoline. BEVs are the only type of EV that is exempt from the TLC license pause.

Did you know there are now over **30 models** of EVs and **4,000 charging stations** in New York?



# WHY DRIVE ELECTRIC?

## TLC'S FOR-HIRE VEHICLE LICENSE PAUSE EXEMPTION

In New York City, black cars, livery vehicles, and limousines are all considered for-hire vehicles (FHV). The NYC Taxi & Limousine Commission (TLC) paused licenses for FHV's. However, in August 2019, TLC enacted an exception to its vehicle pause for battery electric and wheelchair accessible vehicles. The agency is likely to extend this pause exception an additional year. With the new exception, **battery electric vehicle (BEV) drivers are currently eligible to apply for a new FHV license.**

Only BEVs are allowed an exemption, such as the Chevrolet Bolt, Nissan Leaf and Tesla Model 3. These vehicles run exclusively on batteries and do not have traditional fuel engines. There are currently many different BEV models available today from different manufacturers. Vehicles with a gas tank (such as HEVs and PHEVs) are NOT eligible for the exception.

Visit [missionelectric.org/for-hire-vehicle-drivers](https://missionelectric.org/for-hire-vehicle-drivers) to learn more about FHV license exceptions.



### No more gas stations!

Say good-bye to trips to the gas station and save money. Depending on when you charge, the cost of electricity is less than gasoline. A 2018 study found that in the U.S., you can save \$600 annually when switching to an EV.



### Spend less on maintenance

Unlike traditional gas vehicles, BEVs do not require oil changes or maintenance to the engine. Less maintenance saves you time and money!



### Top-of-the-line technology

An EV dashboard shows your battery's range, driving efficiency, and navigation—all must-have technology for today's driver. Plus, without a gas engine, driving a BEV is virtually silent. The electric motor provides instant torque with a smooth ride.



### Better for the environment

Help everyone breathe a little easier. Electric vehicles emit zero emissions from the tailpipe. When you drive an EV, you help reduce harmful carbon emissions and improve local air quality.

Visit [missionelectric.org/electric-vehicles](https://missionelectric.org/electric-vehicles) to learn more about electric vehicles.

This material is based upon work supported by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) under the Vehicles Technologies Office (VTO) Deployment Award Number DE-EE0008261.