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 **100 models** of EVs and over **15,000 charging ports** in New York?

While there are various types of electric vehicles (EVs) available in the market, it's important to note that the EVs discussed within this guide predominantly refer to Battery Electric Vehicles (BEVs) or Plug-in Hybrid Electric Vehicles (PHEVs). The information, recommendations, and incentives provided in this guide primarily apply to BEVs, which qualify for most of the incentives mentioned herein.

MISSION ELECTRIC

WHY DRIVE ELECTRIC?

No more gas stations!

Say goodbye 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 $500-$1,000 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.

NYC TLC'S FOR-HIRE VEHICLE GREEN RIDES

The Green Rides Initiative will require high-volume for-hire services (HVFHSs), which currently include Uber and Lyft, to have fleets in New York City that are entirely made up of zero-emission vehicles (ZEVs), including electric vehicles (EVs), or wheelchair-accessible vehicles (WAVs) by 2030. This initiative lays crucial groundwork for creating a cleaner and more accessible transportation system for New York City. The proposed rules will also make New York City the first large city in the world to have a rideshare fleet that is entirely either zero-emissions or wheelchair accessible.

New York has a number of incentives in place to encourage the use of ZEVs. These include incentives for vehicle purchases, reduced tolling, and charging infrastructure. In New York City, the Drive Clean Rebate program offers up to $2,000 for new EV purchases for any driver. Also, the Clean Vehicle Tax Credit provides a tax credit of up to $7,500 for the purchase of electric vehicles. Additionally, TLC-licensed EV drivers currently receive a 15% discount on charging costs at city-owned charging stations that are open to the public.

Visit **missionelectric.org/electric-vehicles** to learn more about electric vehicles.

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PURCHASING AN ELECTRIC VEHICLE

Before you head to the dealership looking for an electric vehicle, it is important to consider your vehicle and charging options. Here are some first steps for finding an electric vehicle that fits your needs. Learn more about battery electric vehicles (BEVs) and charging at ***missionelectric.org/electric-vehicles***.

STEP-BY-STEP

1. **Pick a car**

   The median driving range for a 2023 BEV is 270 miles, with many models that can travel more than 270 miles on one charge. Picking a BEV with the right range will be as important as making sure it's affordable and spacious. There are many online vehicle cost calculators to help you find an available, affordable option.

2. **Take advantage of local incentives**

   You could save *up to* $9,500 on your EV purchase! In addition to other perks, there are federal tax credits, state incentives (e.g., NY Drive Clean Rebate), and savings programs offered by your local utility.

3. **Decide where to charge**

   Do you have access to charging where you live? Are there fast chargers in your community? Even one accessible charging source can be enough to power your EV needs. There are many smartphone apps to help you locate public charging stations along your route. You can also find a map of charging stations at missionelectric.org/ev-charging-station-locator.html

4. **Charger installation**

   If you have access to parking at home, you can plug your vehicle into a standard household outlet, or install an affordable Level 2 home charger. If you live in an apartment building, ask if the building can install public chargers using available state incentives. If not, you can always find one of the thousands of local Level 2 or DC Fast Charge public chargers.

5. **Electricity rates and smart charging**

   Con Edison offers programs like Smart Charge NY and time of use (TOU) rate options to help save on the cost of electricity if you charge at home. PSEG Long Island and other utilities in the tri-state area also offer EV customers with savings opportunities.

Visit **missionelectric.org/incentives** for more information on EV options and ways to save.

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