











# EV CHARGING 101

*Everything you need to know about charging an electric vehicle in New York*

Just like a gas vehicle won't run without gas in the tank, an electric vehicle (EV) won't run unless its battery is charged. EV owners have many options for replenishing their rides. Electric vehicle supply equipment (EVSE) can be installed **at home, at work, or on the street**. No matter where you are, you can use free resources to find public charging from a growing list of locations.

## WHERE DO I CHARGE?

	Level 1	Level 2	DCFC (Level 3)
Range Added	5 miles per hour	25 miles per hour	90 miles in 30 minutes
Power	 <b>120 volts</b> <small>HOUSEHOLD OUTLET (120 VOLTS)</small>	  <b>240 volts</b> <small>240-VOLT HOME CHARGER      240-VOLT COMMERCIAL CHARGER</small>	 <b>480 volts</b> <small>HIGH-SPEED COMMERCIAL CHARGER</small>
Cost*	<b>\$0.24-0.30</b> per hour	<b>\$1.32-2.64</b> per hour	<b>\$6.75-10.00</b> per 30 minutes
Location		  	 

**Note:** Range, charging times, and costs may vary based on type of vehicle and charging location.

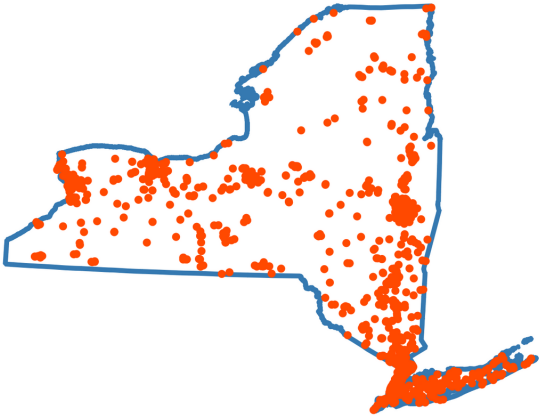
\*Cost assumptions: L1: \$0.20-0.25 per kWh and 1.2 kW max charger capacity; L2: \$0.20-0.40 per kWh and 6.6 kW max charger capacity; DCFC (L3): \$0.27-0.40 per kWh and 50 kW max charger capacity.

\*\*'Power' icons borrowed from AARP Auto, "Electric Cars: Chevy Bolt EV vs. Tesla Model 3." December 5, 2018.



## PUBLIC CHARGING IN NEW YORK

There are dozens of charging network providers in New York and across the nation. Many are either subscriptions and membership based or pay-as-you-go. Most networks have a mobile app you can download to your smartphone device. Rates vary by network and location. Some charge per the amount of electricity used, some by the hour, or are even free! Plus, **finding public charging stations is easier than ever!** Use online and mobile apps like the Alternative Fuels Data Center or PlugShare for real-time status updates on stations. Google Maps and Apple Maps also now show charging station information.



Did you know there are approximately **4,000 public charging units** in New York and over 20,000 in the U.S.?

## INCENTIVES FOR EV CHARGERS

If you have access to a home garage or parking space, you can use Level 1 charging (a standard outlet) or install Level 2 charging. Federal and state rebates are available to install charging in public parking areas, workplaces, apartment buildings, and single family homes.

Visit [missionelectric.org](https://missionelectric.org) to learn more about savings and EV programs in New York.



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