

Electric Vehicles in New York

Plug-in electric vehicles (PEVs) are fun to drive and provide significant benefits to the American economy not just through the domestic manufacturing of the vehicles, but also through additional jobs in the electric power industry for the energy to operate them.^{1,2} The increased use of domestic electricity in the transportation sector promotes national security by reducing our dependence on imported oil. These vehicles keep the U.S. competitive with China and the Europe Union, which are both moving aggressively towards full deployment of the vehicles and nationwide charging systems.

There are currently over 19,954 PEVs on New York roads today, with the market ready to expand as new vehicle makes and models become available in New York.³ As these vehicles are a win-win for New York, it's no surprise that consumers want more of these vehicles today.



Cohoes, New York National Drive Electric Week 2015

Policies in New York for PEVs

Policy support at the federal, state and local levels is needed as the PEV market continues to develop and grow. Below is the most current list of PEV policies in New York:

Vehicle Purchase Incentive: The Drive Clean Rebate for Plug-In Electric Vehicles offers up to \$2,000 for a BEV or PHEV starting April 1, 2017.⁴

Charging Station Incentive: The EV Charger Rebate program provides a credit for the installation of EVSE to certain qualified property up to \$5,000 or 50% the cost of the property, whichever is less.⁵

HOV Lane Access Policy: PEVs are eligible for the HOV lanes on the Long Island Expressway as long as the proper decal is displayed.⁶

Utility Charging Rates for PEVs: ConEd offers a residential time-of-use rate for EV charging together with other household electricity usage, and a non-residential time-of-use rate for EV charging with a separate meter from household electricity usage.⁷

Other: NY Insurance companies may offer discounts on PEVs. PEVs are also eligible for the Green Pass Discount Program, which offers a 10% discount to EZ-Pass toll road fees.⁸

Fun Facts for PEVs in New York

- New York will install 450 new PEV Chargers with a new PEV campaign announced early 2017.⁹
- New York will have a \$70 million rebate and outreach program to help promote the sales of PEVs.¹⁰

¹ Currently, the U.S. manufactures PEVs and other advanced technology vehicles and components in at least 20 states, creating thousands of new, good jobs. Furthermore, the auto industry has distribution centers, sales offices and operational facilities in all 50 states; the PEV industry is a part of the same distribution, sales and operational network and is difficult to separate from the main auto industry. More at: <http://sierraclub.typepad.com/compass/2012/06/fuel-economy-jobs.html>

² PEVs include battery-electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). The BEVs are charged by electricity from the local grid, while PHEVs drive on electricity from the local grid first, then on gasoline for longer trips

³ <https://autoalliance.org/in-your-state/NY/>

⁴ <https://www.nyserderda.ny.gov/All-Programs/Programs/Drive-Clean-Rebate>

⁵ https://www.tax.ny.gov/pdf/memos/multitax/m13_5c_3i.pdf

⁶ <https://www.dot.ny.gov/portal/page/portal/programs/clean-pass>

⁷ <https://www.coned.com/en/our-energy-future/technology-innovation/electric-vehicles/electric-vehicles-and-your-bill>

⁸ <http://www.thruway.ny.gov/ezpass/greentag.html>

⁹ <https://www.nyserderda.ny.gov/About/Newsroom/2017-Announcements/2017-03-06-Governor-Cuomo-Announces-Campaign-to-Install-Charging-Stations-and-Promote-EV>

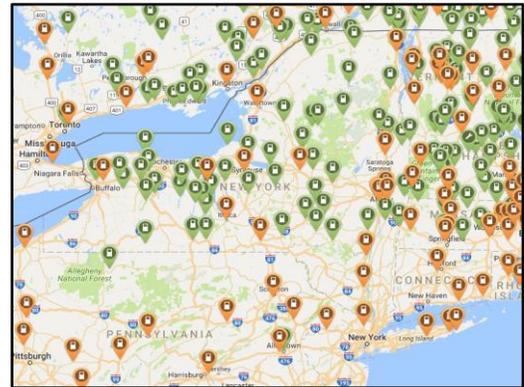


- Rochester, New York is designated to become a model EV city to demonstrate how developing an EV ecosystem will increase EV adoption and prepare the local community for long-term EV growth.¹⁰
- New York adopted the California vehicle fuel economy standards, one part of which includes a “Zero Emissions Vehicle Mandate.” This mandate requires automakers to sell or purchase credits for a certain number of PEVs in New York. The NY market will begin to see a significant increase in PEV makes and models available in the state starting in 2018.¹⁰

Benefits for Every Driver in New York

The benefits of PEVs accrue to all residents in New York, regardless if the driver is in an urban or metro area. Top benefits include:

1. **PEVs put money back in the pockets of consumers.** On average, fueling a car with electricity is roughly the same as gas at \$1 per gallon, thanks to a PEV’s performance efficiency and the lower cost of electricity.¹¹ Maintenance costs are also significantly reduced.
2. **All drivers in New York have the ability to charge.** PEVs can be charged on a standard 120V wall outlet, also called Level 1 charging.¹² Faster charging can be achieved at the home or workplace with Level 2 charging.¹³ The map at the right shows the public charging stations that are currently available to all New York drivers.¹⁴ The orange icons are DC Fast charging stations, and the green icons represent public Level 2 charging stations. It is possible to get nearly anywhere in the state with a PEV, proving that these vehicles can work for all New York drivers.
3. **PEVs are significantly better for the local economy.** PEVs are fueled from electricity from the local grid, which is cheaper for all consumers. Money not spent on gas or on maintenance can be invested back into the local economy.
4. **PEVs improve air quality and reduce health care costs.** Poor air quality is still a problem for many U.S. states.¹⁵ PEVs produce far fewer tailpipe emissions than a standard gasoline-powered vehicle, therefore significantly reducing dangerous air pollution. With more PEVs on the roads, public and private health care costs can be greatly reduced.



Current public charging stations available to all New York drivers.

About Plug In America

Plug In America is the nation’s leading independent consumer voice for accelerating the use of plug-in electric vehicles in the United States to consumers, policymakers, auto manufacturers and others. We drive electric. You can too. www.pluginamerica.org

¹⁰ <http://www.cleancarscampaign.org/>

¹¹ <http://energy.gov/eere/everywhere/ev-everywhere-saving-fuel-and-vehicle-costs>

¹² Level 1 is AC charging at 120V, the level of power that is supplied by a normal household outlet. This will supply up to 40 miles of range for an 8-hour connection during a typical work day. That’s enough to replenish the charge for the majority of New York drivers.

¹³ Level 2 is AC charging at a power level similar to what is supplied by an outlet for an electric dryer, typically 240V.

¹⁴ Zooming in further shows even more charging stations available. PlugShare is one platform that tracks charging station locations, prices and types of charging at each location. Drivers can download the PlugShare app to a mobile phone for free.

¹⁵ <http://www.lung.org/our-initiatives/healthy-air/sota/key-findings/>

