



WHY OWN AN ELECTRIC VEHICLE?

The Environment!

EVs are cleaner and greener than gas-powered vehicles. Even when accounting for manufacturing, greenhouse gas emissions associated with an electric vehicle over its lifetime use are lower than those from an average gasoline-powered vehicle.

In New Jersey, the transportation sector accounts for 46% of the state's total greenhouse emissions, the largest source in the state.* There are over 91,000 plug-in vehicles registered in New Jersey. Approximately 4,600 of those vehicles are in Hudson County. We will see more electric cars for both fleet and personal use because of an increase in the number of incentives and accessibility.

Cost Savings!

Owning an EV means less money is spent on maintenance. Owning a battery-powered EV means saying goodbye to oil changes and rapidly shifting fuel costs!

EV batteries have a long life expectancy, and most come with 10-year warranties.

Buying an electric vehicle comes with many incentives which help make EVs a cost-effective choice. Read on to learn more!

*<https://dep.nj.gov/drivegreen/reduce-emissions/>



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This publication was prepared with funding from the North Jersey Transportation Planning Authority (NJTPA) and the Federal Highway Administration (FHWA). This document is disseminated under the sponsorship of NJTPA and FHWA in the interest of information exchange. NJTPA and FHWA assume no liability for its contents or use thereof.

NEW JERSEY IS ELECTRIC!



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FACTS YOU SHOULD KNOW: OWNING AN ELECTRIC VEHICLE IN NEW JERSEY

There's a lot of chatter in the media these days about electric vehicles, and you may have questions that need answers. Many are interested in the benefits of owning an electric vehicle, but making the switch is a big change and reluctance to do so is understandable.

The Hudson TMA hopes we can give you the information you need to make an easier and more informed decision.



ARE THERE DIFFERENT TYPES OF ELECTRIC VEHICLES?

Yes! There are three types of EVs on the market: Hybrid Electric Vehicles (HEVs), Plug-In Hybrids (PHEVs), and Battery Electric Vehicles (BEVs).

HEVs are low-emission vehicles that use an electric motor to assist gas-powered engines. The battery is charged by regenerative braking, which recoups otherwise lost energy in braking to assist the gasoline engine.

PHEVs use batteries to power an electric motor and another fuel, such as gasoline, to power an internal combustion engine (ICE).

All-electric vehicles (BEVs) have an electric motor and no internal combustion engine (ICE). BEVs typically have a range of 200-350 miles on a full battery. Decide what kind of vehicle would work for your commute and lifestyle. Surveys show that in 2022, Hudson County already had 4,595 EVs, both PHEV and BEV, on the road.

HOW IS AN EV BATTERY CHARGED?

There are three types of chargers for EVs: Level 1, Level 2, and Level 3/DC Fast Chargers (DCFCs). Vehicle owners are often supplied with Level 1 chargers for home use at the time of purchase. These chargers plug into standard 120V home outlets and provide 2 to 5 miles of range per 1 hour of charging.

Level 2 chargers can be up to 19 times faster than Level 1 chargers and provide 10 to 75 miles of range per 1 hour of charging. Level 2 chargers are 208V-240V, 16 Amp, and can be safely and easily installed on your property by an electrician.

Level 3/DC Fast Chargers (DCFCs) deliver the fastest possible charge, are 480V, and can fill a battery at 75-1,200 miles of range per hour. DCFC Stations are typically found in public areas and service roads. The state of New Jersey is working to place more DCFC stations along highway corridors.

WHERE CAN I FIND EV CHARGING STATIONS?

We understand that the thought of being on the road and running out of battery charge is naturally anxiety-inducing, but the network of charging stations nationwide is rapidly expanding. Funding from all levels of government with the intent of increasing our EV charging grid is a reality. Most locations in New Jersey are within a 25-mile radius of a DCFC or fast-charging station. You can locate DC Fast Chargers and Level 2 chargers on the **PlugShare** app.



INCENTIVES FOR EV AND CHARGING EQUIPMENT PURCHASE

Both Federal and State Programs are available to help you purchase an EV. The Inflation Reduction Act and the Bipartisan Infrastructure Law earmark large amounts of funds dedicated to bolster EV ownership and expand the national EV charging grid.

Federal Incentives

Some vehicles will qualify for up to a \$7,500 tax credit under IRS Code Section 30-D. As of April 18, 2023, the vehicle must meet specific critical mineral and battery component requirements. To learn more, go to: irs.gov/credits-deductions/credits-for-new-clean-vehicles-purchased-in-2023-or-after

State Incentives

Public Service Energy & Gas (PSE&G) customers can receive up to \$1,500 towards the installation of a home charging station, in addition to other incentives. nj.myaccount.pseg.com/myservicepublic/electricvehicles

The New Jersey Board of Public Utilities also offers incentives for purchasing charging stations, such as \$250 off a charger for residential use: njcleanenergy.com/residential/programs/electric-vehicle-incentive-programs

The New Jersey Sales and Use Tax Act provides a sales and use tax exemption for electric vehicles (all zero emissions vehicles). state.nj.us/treasury/taxation/zevnotice.shtml

The Charge Up New Jersey program offers an incentive of up to \$4,000 when you purchase or lease a new electric vehicle. chargeup.njcleanenergy.com/