



EV charging stations for employee-driven electric vehicles



NYPA employees can charge their EVs at work using Level 1 charging stations. Photo credit: NYPA

Hybrid electric vehicles were first observed in New York Power Authority's (NYPA) parking garage around 2005, which indicates the progressiveness of their employees. In 2011, based on NYPA employee interest in alternative fuel vehicles and anticipation that employees would use electric vehicles (EV) in the future, charging stations were installed. The charging station project also aligned with NYPA's sustainability plan.

What they did

NYPA installed the EV charging stations in a weather-protected garage, but not necessarily a preferential parking location. NYPA found Level 1 or "slow" charging stations offered reduced cost and less complexity in connecting to existing infrastructure. Due to the significant average dwell time at the workplace, Level 1 provides enough charge for a majority of commutes, especially for any employees with a plug-in hybrid EV.

NYPA also maintains a corporate fleet of four EV models (Chevy Volt, Ford C-Max Energi, Nissan Leaf, and Ford Transit Connect all-electric) that any member of the NYPA staff can use for local travel. The mix of EV types implies that the Authority does not promote one particular technology. Level 2 stations were installed for these EVs.

SNAPSHOT

EV Charging equipment

Three Level 1 and four Level 2 stations (7 total ports)

Location

NYPA's main office parking garage in White Plains

EV Users

Workplace charging; stations are available to employees and visitors

ChargeNY accelerates the use of plug-in electric vehicles on the road by making infrastructure such as charging stations more available, easier to use, and more economically viable in New York State.

Support and results

NYPA found the Level 1 chargers to be very effective in a workplace environment. They can be installed for low cost in a small-scale trial. NYPA's intention is only to break even on electricity costs. As such, users are charged \$15 per month for charging in a designated space, matching the estimated per-user electricity costs. Station use is consistent because each charger is assigned to a particular vehicle, whether employee- or NYPA-owned, that regularly parks and charges there.

Get started

Visit nyscrda.ny.gov/ChargeNY or call **1-866-NYSERDA** to learn how you can reduce your energy consumption and costs.



Level 2 charging stations were installed for NYPA fleet vehicles.
Photo credit: NYPA

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise, and support to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce reliance on fossil fuels. NYSERDA professionals work to protect the environment and create clean energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York State since 1975. To learn more about NYSERDA's programs, visit nyscrda.ny.gov or follow us on Twitter, Facebook, YouTube, or Instagram.