



New York Power Authority  
Request For Proposal  
**Advanced  
Technology  
Electric Vehicle  
Charging Stations  
for Public Sites**

Inquiry No. Q13-5426MH



**New York Power  
Authority**

Generating more than electricity

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Power Authority of the State of New York  
123 Main Street, White Plains, N.Y. 10601

ATTN: \_\_\_\_\_

Insert Company Name \_\_\_\_\_

Insert Company Address \_\_\_\_\_

ATTN: \_\_\_\_\_

## I. Introduction and Background

The New York Power Authority (NYPA or “the Authority”) is the nation’s largest state power organization and one of New York’s leading electricity suppliers. The Authority provides some of the lowest-cost electricity in New York State, operat-



ing 16 generating facilities and more than 1,400 circuit-miles of transmission lines. The primary business of NYPA is to provide low-cost energy for the benefit of the people of New York State. The Authority is also a national leader in promoting energy efficiency and the development of clean energy technologies, committing over \$200 million a year to these programs. NYPA has completed energy efficiency and clean energy projects at more than 3,800 public facilities throughout New York State, investing nearly \$1.5 billion statewide. The resulting energy savings of these projects help reduce taxpayer costs.

This project is part of the Charge NY Plan, announced by Governor Andrew M. Cuomo in his 2013 State of the State Address. Under this plan, New York State will accelerate the

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Cover photos, from left: A Nissan LEAF “filling up” with electricity, charging equipment at a commuter rail station used during NYPA’s Clean Commute Program, the Nissan LEAF dashboard with its electric-fuel gauge.

Photos, this page, from top: The all-electric Mitsubishi iMIEV, a Nissan LEAF charging in a parking garage.

adoption of plug-in electric vehicles (PEVs) by providing a network of public charging stations. The replacement of older vehicles with PEVs will improve air quality, public health and energy security while reducing carbon emissions. Installing charging stations in public locations throughout New York State will encourage the use and adoption of PEVs.

NYPA’s Electric Transportation Program goal is to promote the development and demonstration of electric-drive vehicles that are of benefit to NYPA customers and other public entities around the state. The program, launched in the early 1990’s, uses funding from NYPA and NYPA stakeholders to develop and demonstrate a variety of clean and efficient electric, hybrid-electric and plug-in hybrid-electric vehicles. These vehicles include transit buses, school buses, delivery trucks, vans, passenger cars, utility vehicles as well as port, airport and rail terminal equipment. To date, the program assisted in the placement of over 1,200 electric-drive vehicles. These vehicles have traveled over 11 million miles and have saved approximately 35,000 barrels of oil and avoided release of 4,000 tons of CO<sub>2</sub>.

Notable accomplishments of NYPA’s Electric Transportation Program include the field testing of hybrid transit buses in New York City (which later became the largest fleet of such buses in the nation), partnerships with major automakers to test the first plug-in hybrid vehicles and the Clean Commute Program (a partnership with Ford to place electric vehicles with suburban commuters and install charging infrastructure at railroad stations). NYPA’s Electric Transportation Program



has won several awards, including the U.S. Environmental Protection Agency's Clean Air Excellence Award.

In 2012, NYPA was awarded a grant from the New York State Energy Research and Development Authority (NYSERDA) to demonstrate advanced technology electric vehicle



charging stations at public locations throughout New York State. The procurement represented by this RFP is, in part, funded through this grant. Host sites will include train stations, airports and municipal parking lots and garages.

## II. Initiative Overview

Through this RFP, the Authority seeks to identify and select one or more companies to perform engineering design, equipment procurement and construction labor of advanced technology electric vehicle charging stations at 100 parking spaces within 36 site locations throughout New York State. These installations will support the use of battery electric and plug-in hybrid-electric vehicles by the general public, providing battery charging equipment at public facilities such as train stations, airports and municipal parking garages.

The Authority prefers to make no more than two awards under this solicitation. The Authority recommends that bid-

Photos, this page, from top: The all-electric Nissan LEAF can travel up to 100 miles on a single charge. The connectors used to charge electric vehicles have been standardized by the Society of Automotive Engineers.

ders consider partnerships with subcontractors as necessary to provide more comprehensive proposals.

As part of this RFP, the Authority has teamed with the Electric Power Research Institute ("EPRI"), the electric utility industry's premier collaborative research organization. EPRI conducts research and development relating to the generation, delivery and use of electricity for the benefit of the public. An independent, nonprofit organization consisting of most of the nation's electric utilities, EPRI brings together its scientists and engineers as well as experts from academia and industry to help address challenges related to electricity, including reliability, efficiency, health, safety and the environment. EPRI also provides technology and economic analyses to drive long-range research and development planning, and conducts extensive "technology scouting" activities as part of its core programs. For this RFP, EPRI will compile data and perform studies to help identify utilization trends for future deployments of electric vehicle charging stations.

The Authority is also collaborating with NYSERDA to help build a comprehensive development path for emerging energy efficiency and renewable technologies in New York. NYSERDA strives to facilitate change through the widespread development and use of innovative technologies to improve New York State's energy, economic and environmental well-being.

This demonstration project will validate performance, system integration and safety of Electric Vehicle Supply Equipment (EVSE) technologies. Demonstration sites will also serve as technology laboratories for the general public to familiarize themselves with electric vehicles.



While EPRI and NYSERDA will play key roles in providing ongoing technical support and due diligence, the successful awardee(s) under this RFP will assume responsibility for the overall project implementation. NYPA will select the awardee based on its proposed approach to meeting the particular objectives of the RFP via innovative design and previous implementation of successful EVSE projects where applicable.

Potential sites for these advanced technology electric vehicle charging stations include highly visible locations such as train stations and airports. NYPA believes that these deployments will help spur electric vehicle use while educating New Yorkers on this technology.

NYPA expects the awardee to adhere to the latest codes and standards governing electric vehicle charging, ensuring that the design, construction and installation of the equipment is safe. NYPA will approve only equipment passing the durability and safety tests of nationally recognized testing laboratories.



There is now a diverse range of plug-in vehicles, including battery electrics and plug-in hybrids. Shown here are the Chevrolet Volt (above) and the Ford Focus EV.

Awardees are encouraged to incorporate advanced technologies into this demonstration project such as: intelligent peak load management algorithms, remote site management and data collection, automated billing, online reservations and advanced cable management.

For purposes of this RFP, initial work has been broken down into the tasks outlined in the Scope of Services. The tasks are general in description and bidders are encouraged to provide additional or alternate implementation details where they deem appropriate.

