

EV Readiness in New York and the Northeast

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NYSERDA

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About NYSERDA

Basic Facts About NYSERDA

- Established in 1975 by State Legislature
 - Executive level organization
- Cognizant energy agency for New York
- Mission: Advance innovative energy solutions in ways that improve New York's economy and environment
- Forge public/private partnerships with businesses, municipalities, residents, and other energy stakeholders to accomplish this goal

New York State's Approach to EVs

New York State EV Work

Key Agencies

- **NYSERDA**
 - Incentives for and research on AFVs and infrastructure, policy analysis
- **NYS Department of Environmental Conservation**
 - ZEV regulations
- **NYS Department of Transportation**
 - CMAQ programs, general transportation policy
- **NYS Public Service Commission**
 - Regulation of sellers of electricity
- **New York Power Authority**
 - Incentives for and research on electric vehicles

Progress To Date

- Over **2,400** EVs and PHEVs registered in NYS
- Approximately **500** EVSE in NYS
- Over a decade of **research on EVs and EVSE**
- Continued work on **breaking down regulatory barriers** with PSC and local governments
- Incorporation of EV policies in **2013 State Energy Plan**

Programs In Place

- EV Truck Voucher Incentive Program (NYSERDA/NYS DOT collaboration)
- EVSE Demonstration Program
- Education and Outreach Program with Clean Cities Coalitions
- Adoption of new ZEV regulations
- Transportation and Climate Initiative's EV Readiness Project

Support from Gov. Cuomo

- In January's State of the State Address, Gov. Cuomo outlined a plan to:
 - Install more than 2,500 public and workplace charging stations statewide by 2018 in areas where PEV users drive
 - Reform regulations at the State and local level to facilitate PEV charging
 - Educate consumers and policymakers about the benefits of PEVs
 - Demonstrate benefits of PEV technologies in the State fleet

EV Planning Under Way

- New York City and Albany have each undertaken major EV planning efforts
 - NYC has done extensive planning for EVs and Mayor Bloomberg just announced a new initiative to update building codes to install up to 10,000 EVSE by 2020
 - With support from NYSERDA and NYSDOT, the City of Albany crafted a city-wide EV plan that identifies key spots around city for EVSE

TCI's EV Readiness Project

Transportation and Climate Initiative

- Eleven states and the District of Columbia launched TCI in June 2010 to:
 - Reduce greenhouse gases in the transportation sector and help build the clean energy economy;
 - Create benefits and funding opportunities for states that are leading the way;
 - Align with federal government actions, goals and emerging inter-agency approaches; and
 - Build on existing regional efforts.



TCI Clean Vehicles and Fuels Workgroup

- Received a nearly \$1 million Electric Vehicle Readiness Grant from the U.S. Department of Energy (DOE) in September 2011.
- Launched the Northeast Electric Vehicle Network in October 2011 to support the rollout of electric vehicles (EVs) in the region.
- Exploring opportunities to support the use of natural gas vehicles.
- Commissioning study of potential revenue losses from increased use of alternative fuel vehicles.



THE WALL STREET JOURNAL

Northeast States Form Electric Vehicle Network

BALTIMORE — Ten states from Massachusetts to Maryland are joining forces to promote electric vehicles.

The Northeast Electric Vehicle Network announced Wednesday it will work to help plan and install charging stations throughout the region as well as attract private investment in clean vehicle infrastructure.

DOE EV Planning Grant

- NYSERDA (on behalf of TCI) received a \$1 million Electric Vehicle Readiness Grant from DOE in September 2011 to plan for the rollout of EV infrastructure
- NYSERDA and TCI are working with 16 of the region's Clean Cities Coalitions to:
 - Engage stakeholders
 - Conduct a literature review
 - Create siting and design guidelines, model permits, building codes, and ordinances for EV infrastructure tailored to the region
 - Undertake education and outreach activities



Stakeholder Engagement

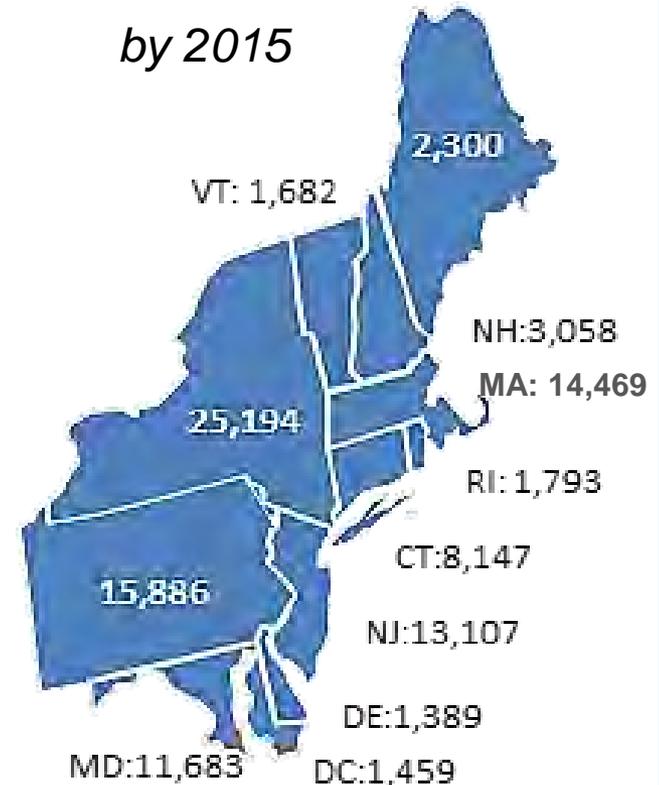
- The project partners have engaged stakeholders at the local and regional level to assess barriers and discuss a vision for EV deployment in the region.
 - The Clean Cities Coalitions have worked with local stakeholders to assess the state of EVs in their jurisdictions.
 - TCI has held regional dialogues with public and private sector stakeholders.
 - TCI launched the Northeast Electric Vehicle Network Pledge in April 2012 to demonstrate widespread support for EVs.



Literature Review

- TCI's literature review assesses market barriers, electrical grid impacts, plans for EV rollouts, and other issues specific to the Northeast.
- The literature review was prepared by the Center for Climate and Energy Solutions (C2ES) for TCI, GCC, and NYSERDA.
- *The report is available on the Northeast Electric Vehicle Network website: www.northeastevs.org.*

*Estimated EVs on the Road
by 2015*



Guidance Documents

- Consulting team Energetics Inc. and WXY Architecture + Urban Design have created a series of EV guidance documents for the TCI region. These documents include:
 - An **Analysis of Current EV and EVSE Deployment** in the TCI region;
 - An **EVSE Cluster Analysis**;
 - **Siting and Design Guidelines for Electric Vehicle Supply Equipment**;
 - A report on **EV-Ready Codes for the Built Environment**; and
 - A **Guide to Planning and Policy Tools** for creating EV-Ready towns and cities.



For More Information

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And please visit www.northeastevs.org for all materials discussed today