

NYSERDA Wind Innovation & Technology



October 15, 2014

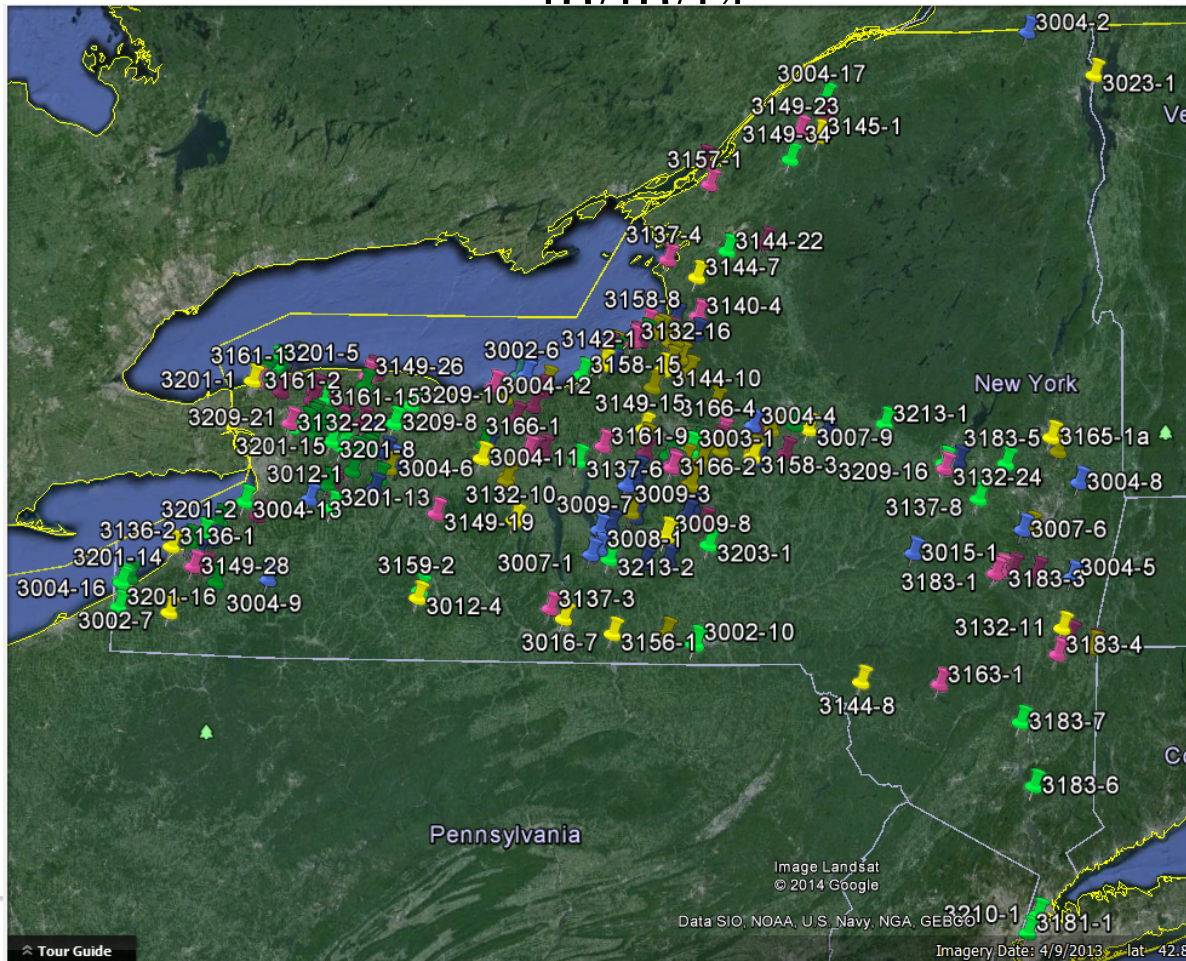
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What is the Future of NYSERDA's Distributed Wind Turbine Incentive Program?

- Current program in effect through 2015
 - Start year with \$4 Million
 - A “boat-load” potentially available
 - **After 2015?**
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NYSERDA-Funded On-Site Wind Turbines as of 10/10/14



Applications Received

Year	Number	Range (kW)	NYSERDA \$	Annual MWh	\$/kWh
2008	15	4.25 to 10	\$480,000	140	\$3.43
2009	34	2.1 to 20	\$976,000	290	\$3.75
2010	19	2.5 to 100	\$710,000	315	\$2.25
2011	58	2.1 to 850	\$3,600,000	3,800	\$0.95
2012	16	8.9 to 100	\$700,000	350	\$2.00
2013	19	5.2 to 1,800	\$2,600,000	6,700	\$0.39
2014	37	5 to 100	\$1,900,000	1,200	\$1.58

Wind Turbine Incentive Program (PON 2439)

- **The program is cost-effective.**
- But it's not PV!
- Maybe?
- **Program set to expire on December 31, 2015!**

REV vs. CEF

Reforming the Energy Vision

The future of New York Utilities

Clean Energy Fund

The future of NYSERDA

Newest Goal

Reduce Greenhouse Gas Emissions

40% by 2030 – 80% by 2050

New York Generation Attribute Tracking System (NYGATS)

- REC Certificates (to most)
- Characteristics per megawatt-hour
- Allow for the exchange of information
- Not a Trading Platform
- System in place by end of 2015

Reforming the Energy Vision

- Utilities will be:
 - Managers of Distributed Energy Resources
 - In Charge of all Energy-Efficiency Measures
 - “a future in which solar and wind power and energy efficiency can deliver grid resilience and reduce pollution”
 - Policy Determination in 2015

Clean Energy Fund

- 10 Years - \$5 Billion
 - Four Major Initiatives
 1. Green Bank
 2. Market Development
 3. Technology & Business Innovation
 4. NY Sun
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Green Bank

- Expand Credit Available for Renewable Energy Projects
- Transition away from grants
- Should be a place for Distributed Wind

Market Development

- Breaking down non-monetary barriers
- Try to achieve streamlining & standardization
- Create awareness
- Provide direct financial incentives, only as a temporary bridge
- Should be a place for Distributed Wind

Technology & Business Innovation

- Used to be called R&D
- Level funding for 10 years
- Must focus on GHG emission reduction in NY
- Should be a place for Distributed Wind

Did you notice a pattern?



Soap Box

Pearson Court Square – Long



Urban Green Energy - VisionAir5 - 17' x 10'
Currently Under Test for Certification at Intertek (Cortland, NY)

- NYSERDA wants the data!
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Innovation

**XC Associates & RPI – Synthetic Jet Actuators
vs. Deployable Vortex Generators**

**LC Drives & Clarkson – Liquid-Cooled
Generators**

Illing Engineering – Innovative Hub Design

Weaver Wind Energy – 5 kW turbine

Where Do We Go From Here?

It all depends on you.

GET INVOLVED!

Register with DPS as an “Active Party”

Contact people with influence

No one will listen to me.
