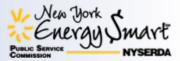


## NYSERDA/DOE Joint Energy Storage Initiative

Annual Peer Review Meeting Washington, DC – Sept. 29 - 30

Joseph Sayer 518-862-1090, ext.3298 jhs@nyserda.org



#### **Overview**

NYSERDA

• Completed/Current Projects

Potential Future Projects

New Developments

• PON 1200, Round 2





## New York State Energy Research & Development Authority (NYSERDA)

- A Public Benefit Corp established in 1975 by State Legislature to identify solutions to State's energy challenges in ways that benefit the State's economy and environment
- Forge public/private partnerships with businesses, municipalities, residents, and other energy stakeholders to accomplish this goal
- Competitive Solicitations



#### 2004 MOU with USDOE

- Joint NYSERDA/DOE Energy Storage Initiative
- Support, facilitate, implement, tech transfer of electric energy storage-related demonstrations

Sandia National Laboratories



## **Completed Projects**

- Beacon Power 100kW/25 kWhr FWESS, Amsterdam
- Gaia Power Technologies 11 kW/20 kWhr PowerTower, Delhi
- Ridge Energy Mini-CAES Feasibility Study
- DUA NYS Energy Storage Market Analysis
- EPRI Solutions/Customized Energy NYS EES Economics Study



### **Current Ongoing Projects**

- NYPA/LI Bus 1 MW/~7 MWhr NaS BESS Demo in Garden City, LI
- Gaia/DCEC 300 kW/900 kWhr 'PowerTower' Demo in Delhi, NY
- NYPA/LIRR 2.5 MW/20~30 sec. FESS
- CUNY/Gaia 100 kW PV and 75 kW/75 kWhr 'PowerTower'





### **Potential Future Projects**

• NYISO Interconnection and Market Rules for EES

- Larger Scale FWESS Demo
- Flow-Battery ESS Demo for Peak-Shaving/Voltage regulation/Backup Power
- Flow-Battery/PV ESS Demo
- Utility-Scale CAES/Wind Energy Project



#### **New Developments**

- Reorganization
  - T&D Exploratory Research in the Energy Efficiency Research Program
- Energy Efficiency Portfolio Standard
  - First year funds were 'fast-tracked'
- Regional Greenhouse Gas Initiative
  - Cap and trade program
- Couple Energy Storage with Renewable Energy



# PON 1200 – Environmentally Preferred Power Systems and Energy Storage Technologies

- Category 'C'- NYSERDA/DOE Joint Energy Storage Initiative
- \$1,500,000 in NYSERDA Funding/Project
- Requires 50% Cofunding & NYS Demo Site
- 2nd Round
  - Jan. 14,2009
- 'www.nyserda.org', 'funding opportunities', 'current opportunities'





# PON 1208 – Electric Power Transmission and Distribution (EPTD) Program

Four Categories

-'A': Demonstration Projects (\$1 M, 50% Cost Share)

-'B': Product Development (\$500 K, 50% Cost Share)

-'C': Engineering Studies (\$200 K, 25% Cost Share)

-'D': Research Studies (\$200 K, 25% Cost Share)

- \$3.6 Million for Two Rounds
- Due Date Dec. 3rd, 2008
- 'www.nyserda.org', 'funding opportunities', 'current opportunities'