

# NYSERDA/DOE Joint Energy Storage Initiative

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

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# Overview

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- **NYSERDA**
- **Completed/Current Projects**
- **Potential Future Projects**
- **New Developments**
- **PON 1200, Round 2**

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

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- **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

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

# Completed Projects

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- **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

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- **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

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- **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

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- **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

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- **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

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- **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. 3<sup>rd</sup>, 2008**

- *‘[www.nyserda.org](http://www.nyserda.org)’, ‘funding opportunities’, ‘current opportunities’*