



New Jersey's Clean Energy Program

Energy Storage Program Plan Overview

**Charlie Garrison
Stakeholder Workgroup Meeting
7/23/2013**



CRA Straw Proposal

Proposed Funding Levels FY14 – FY17

Proposed Renewable Energy FY14 Funding Level

Technology	Proposed Funding Level	4 Year Total: Low-Range	4 Year Total: High Range	Proposed FY14 Funding Level
Solar	\$2 to \$3 million per year	\$8 million	\$12 million	\$2,500,000
Biomass	\$2 to \$3 million per year	\$8 million	\$12 million	\$2,500,000
On-shore Wind	\$5 to \$10 million over 4 years	\$5 million	\$10 million	
Energy Storage	\$5 to \$10 million over 4 years	\$5 million	\$10 million	\$2,500,000
Hydrokinetics	\$2 to \$3 million per year	\$8 million	\$12 million	
Total				\$7,500,000



Navigant Consulting Market Potential Study

- Based on the amount of intermittent renewable energy installed in New Jersey, the Navigant Consulting study identified two potential opportunities for energy storage in the near term (2012 – 2016):
 - Shifting renewable generation to more optimal times of day and
 - Providing some of the additional frequency regulation that may be required with higher levels of intermittent renewable energy.



FY14 Energy Storage Program Plan

- New incentive program for energy storage technology.
 - Board Staff and the Market Manager will hold discussions with interested stakeholders to ***develop program guidelines, incentive structure and target market.***
 - The findings of these stakeholder meetings will provide input which will be utilized to develop a ***competitive solicitation process.***
 - The proposed solicitation design, incentive levels and schedule that are developed through the stakeholder process **will be presented to the Board for its review and approval** at one of the regularly scheduled Board Agenda meetings.



FY14 Energy Storage Program Plan

- Evaluation Committee
 - Office of Clean Energy,
 - Market Manager,
 - Program Coordinator and
 - other NJ State agencies as applicable
- Any incentive award that exceeds the then current threshold established by the Board will require approval by the Board.



FY14 Energy Storage Program Plan

- Awards will be based upon the criteria established within the solicitation.
- BPU priorities include:
 - Emphasis on spending for projects that can be completed within 1 year.
 - Desire to build a sustainable market that does not rely on NJCEP funding.
 - Presence of storage can firm the PV production to allow facilities to participate in other available incentive programs such as demand response, etc.
 - Explore the role of energy storage as means of ensuring the operation of critical facilities during power outages.



FY14 Renewable Energy Program Purpose of Stakeholder Groups

- The working groups will look into program development issues including, but not limited to:
 - Eligible technologies
 - Incentive structure
 - Solicitation structure and timing
 - Application criteria and process
- Key concepts will be identified and distributed in a straw proposal for future discussion.



ESTAP Overview

State & Federal Energy Storage Technology Advancement Partnership (ESTAP)

- Todd Olinsky-Paul, Clean Energy States Alliance
- Dr. Imre Gyuk, U.S. Department of Energy, Office of Electricity Delivery and Energy Reliability
- Dan Borneo, Sandia National Laboratories

<http://www.cleanenergystates.org/projects/energy-storage-technology-advancement-partnership/>



ESTAP Overview

- **Purpose:** Create new DOE-state energy storage partnerships and advance energy storage, with technical assistance from Sandia National Laboratories
- **Focus:** Distributed electrical energy storage technologies
- **Outcome:** Near-term and ongoing project deployments across the U.S. with co-funding from states, project partners, and DOE



ESTAP Is A Project of CESA

- Clean Energy States Alliance (CESA) is a non-profit organization providing a forum for states to work together to implement effective clean energy policies & programs.



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Renewable Energy Committee

<http://mail.njcleanenergy.com/mailman/listinfo/Renewables>

NJ Biopower Technical Working Group

<http://mail.njcleanenergy.com/mailman/listinfo/biopower>

Energy Storage Working Group

<http://mail.njcleanenergy.com/mailman/listinfo/energystorage>