

New Jersey Board of Public Utilities Energy Master Plan Clean and Renewable Power

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Competitive Power Ventures

Competitive Power Ventures (CPV)

- ◆ CPV Background and Strategy
 - ✓ CPV is a leading North American electric power generation ownership, development and asset management company with offices outside of Washington DC, Boston MA and San Francisco, CA
 - ✓ CPV has concentrated on a clean energy strategy utilizing high efficiency natural gas, wind-powered generation and now solar to meet growing demand in high load areas
 - ✓ Since inception, CPV has developed/financed over 4.2GW of power projects including 760MW of Renewable technologies
- ◆ CPV in New Jersey
 - ✓ CPV developed, built and owns the Woodbridge Energy Center a 700MW natural gas fired plant in Woodbridge, New Jersey
 - Completed construction in January 2016 on-time and on-budget
 - +600 construction job at peak construction
 - Construction payroll in excess of \$130 million
 - Operated at over a 90% capacity factor in 2017
 - ✓ CPV is developing the Keasbey Energy Center, a 600 MW natural gas fired plant located adjacent to the Woodbridge Energy Center
 - ✓ CPV wants to develop solar in New Jersey and help the State fulfill its solar RPS requirements

A Framework for Clean Energy

What is “Clean Energy” and why is it important?

- ✓ Our business model is focused on grid modernization to reduce carbon emissions from power generation
- ✓ “Clean Energy” means we maximize resources to reduce our environmental impact through grid modernization which includes renewables, energy efficiency, storage, and natural gas
- ✓ It requires a regulatory framework to include RGGI, carbon pricing and an open and fair competitive market

Natural Gas plays a Critical Role

Why include Natural Gas?

- ✓ The goal is and must remain carbon reduction.
- ✓ A new plant can reduce carbon emissions by an estimated half a million tons per year.
- ✓ New combined cycle natural gas plants are significantly more efficient than the installed base.
- ✓ Energy demand and growth are flat...new generation is not built to meet incremental need...it will displace less efficient generation.
- ✓ The operational flexibility is critical in managing the intermittency of renewable resources and facilitates their expansion.

New Jersey Solar Limitations

◆ Siting

- ✓ To qualify for SRECs, projects must be located on a brownfield, area of historical fill or on properly closed landfill sites...significantly limits qualified site.

- ✓ Brownfield sites are limited and municipalities with brownfield sites are looking for uses that:
 - Provide larger tax benefits than solar projects
 - More jobs than solar projects provide

- ✓ Limited interconnection opportunities

Thoughts/Recommendations

- ◆ Incent private capital and companies to accept the development and performance risk
- ◆ Make more sites eligible for solar development, not just landfills and brownfields
- ◆ Allow developers to interconnect in the most economic way
 - ✓ *Interconnection restrictions limit otherwise qualified sites i.e. current regulations require 65kV or below*
- ◆ Long Term tariff based contracts with utilities drives down the cost of capital and ultimately, the cost to consumers

MA SMART Program

- ◆ 20 Year tariff based contract program based on a first qualified, first served basis for up to 1,600 MW of new solar
- ◆ Tariff rates scheduled in defined declining block program based on remaining program capacity
- ◆ Contract with the electric distribution companies for bundled product (power, RECs, capacity)
- ◆ Defined tariff rate adders/incentives for certain development types (i.e. landfill/brownfield, use of energy storage)
- ◆ Flexible Project Siting Criteria - allows site procurement to meet program goals:
 - ✓ *Limitations around conservation & land tax programs; limited agricultural preclusions*
 - ✓ *Defined Tariff rate deducts for certain zoning designations; land use categories*

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