



NYSERDA

NASEO

Fuels and Grid Integration Committee

September 9, 2016

NY State Energy Plan - 2030 Clean Energy Goals

40%

Reduction

in GHG emissions
from 1990 levels

Reducing greenhouse gas (GHG) emissions from the energy sector—power generation, industry, buildings, and transportation—is critical to protecting the health and welfare of New Yorkers and reaching the longer term goal of decreasing total carbon emissions 80% by 2050.

50%

Generation

of electricity from
renewable energy sources

Renewable resources, including solar, wind, hydropower, and biomass, will play a vital role in reducing electricity price volatility and curbing carbon emissions.

600

 TBTU

Increase

in statewide energy
efficiency

Energy efficiency results in lower energy bills and is the single most cost effective tool in achieving clean energy objectives. 600 trillion British thermal units in energy efficiency gains equates to a 23% reduction from 2012 in energy consumption in buildings.



Clean Energy Standard (CES)

- Advances “50 by 30” Clean Energy Goal
- Annual obligations on all Load Serving Entities, proportional to annual load
- Tiered approach:
 - Renewable Energy Standard
 - Zero Emission Credit Requirement
- Alternative Compliance Payment
- New NYSERDA long-term procurements
- Periodic Assessments and Adjustments

Renewable Energy Standard

- Compliance via Renewable Energy Credits (RECs)
 - Tracked via NY Generation Attribute Tracking System (NYGATS)
- Procurement Strategies
 - Bundled Energy + RECs
 - REC-only Procurement
 - Long-term
 - Spot market
- Alternate Compliance Payment
- NYSERDA Procurement
 - December 1, 2016 – 2017 REC price and quantity offer
 - For sale during 2017
- Triennial Review Cycles

Zero Emission Credit Requirement

- Separate obligation on LSEs
- Public Necessity determination on plant-specific basis
 - Historic contribution to the resource mix consumed by retail customer
 - Energy/Capacity/Ancillary revenues insufficient compensation to preserve the zero emission attributes
 - Cost impact
 - Public interest (zero emission alternatives available, fuel diversity)
- Formula Price
 - 2-year Tranche (Tranche 1 = April 2017 – March 2019)
 - $ZEC = \text{Forecast Energy Price} - \text{Social Cost of Carbon} - \text{RGGI}$
- NYSERDA Procurement

Offshore Wind Strategies

- Governor Andrew M. Cuomo's 2016 State of the State address announces the launch of New York's Offshore Wind Master Plan process
 - NYSERDA to issue the Offshore Wind Blueprint, identifying strategies and approaches to market-scale development of New York's offshore resource
 - CES Order further requires NYSERDA to design a program to maximize the value potential of new offshore wind resources.
- Participation in the Bureau of Ocean Energy Management auction for a commercial offshore wind energy lease off the coast of Rockaways, Long Island.
 - Qualification documents filed in August 2016
- DOE-funded Regional Roadmap
 - Partners with Maine, Massachusetts, Rhode Island
- Clean Energy Fund to support market characterization needs

Renewables and Reliability

- Winter 2013-14
 - 5 major periods of cold weather, including 3 ‘polar vortexes’
- January 7, 2014 – New NYISO Winter Peak: 25,738 MW
 - Cold Weather Protocol initiated: check gas nominations and oil inventories
 - 4,135 MW of generator de-rates (62% from gas/dual fuel units)
 - Wind availability at 1,115 MW
- January 28 – Peak load of 24,696 MW
 - Wind availability at 778 MW

Thank You

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