



**NYSERDA**

# **2016 EIA Energy Conference**

**Renewable Electricity: State-level  
Issues and Perspectives**

**July 12, 2016**

# NY State Energy Plan - 2030 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.



# Reforming the Energy Vision (REV)

- REV is Governor Andrew M. Cuomo's strategy to build a cleaner, more resilient and affordable energy system for all New Yorkers.
- REV places clean, locally-produced power at the core of New York's energy system, protecting the environment by reducing greenhouse gas emissions & increasing our use of renewable energy.
- Reorient the electric industry and the ratemaking paradigm toward a customer-centered approach that harnesses technology and markets.

# Regulatory Reforms – REV Proceeding

Improve system efficiency while aligning utility shareholder financial interest with public policy goals, through:

- Distributed System Platform (DSP)
- Distributed Energy Resources (DER) as instrument for long-term planning and meeting obligations to customers
- Tariffs designed to reflect value based pricing
- Benefit Cost Analysis Framework to value resource needs

# Market Development – Clean Energy Fund

Catalyze clean energy markets to increased scale and impact, through:

- Information, data, and education
- Technical assistance/standardized tools
- Quality assurance
- Pilots/demonstrations of new technologies and business models
- Aggregation of customers for economies of scale

# Example: Solar PV Market

## *Regulatory Reform: Value of DER*

- REV integration of DER into DSP planning and operations requires:
  - Understanding of the full value that DERs provide to the system
  - Information for investment and usage choices
- “Value of DER” inquiry will address two closely-related tasks:
  - Identify an interim approach to valuing DER, as a foundation for an interim successor to Net Metering
  - Establish the LMP+D methodology and process to determine the full value of DER

# Example: Solar PV Market

## *Market Development: NY-Sun*

- \$1 billion initiative toward a sustainable and subsidy-free solar PV market
- Approaches include:
  - Declining incentives
  - Reduction of balance of system costs
  - Augmented consumer education
  - Market aggregation activities
  - Expanded access to all income levels
  - Workforce training

# Thank You

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