



**New York State
Energy Plan**

The Energy to Lead

2015 New York State Energy Plan

**John Rhodes, Chair, NYS Energy Planning Board
Presentation for NYPA Board of Trustees
September 29, 2015**

Planning Process

- **January 2014:** Draft State Energy Plan Released
- **January – May 2014:** Written Public Comments Accepted
- **February – March 2014:** Public Hearings Held
 - Albany
 - Brooklyn
 - Manhattan
 - Long Island
 - Buffalo
 - Syracuse

Public Comments

- Received nearly 100,000 Public Comments
- Key Themes:
 - Climate Change
 - Hydro-Fracking/Natural Gas
 - Renewable Energy
 - Goals

Reforming the Energy Vision (REV)

REV is Governor Andrew M. Cuomo's strategy to build a clean, resilient, and affordable energy system for all New Yorkers. Centered on three pillars, REV's initiatives and actions, together will drive the State's shift to a more market-driven clean energy future.

REV Centers on Three Strategic Pillars:

- 1) The PSC's Reforming the Energy Vision Regulatory Docket
- 2) NYSERDA's Clean Energy Fund (including NY Green Bank and NY-Sun)
- 3) NYPA's Leading by Example

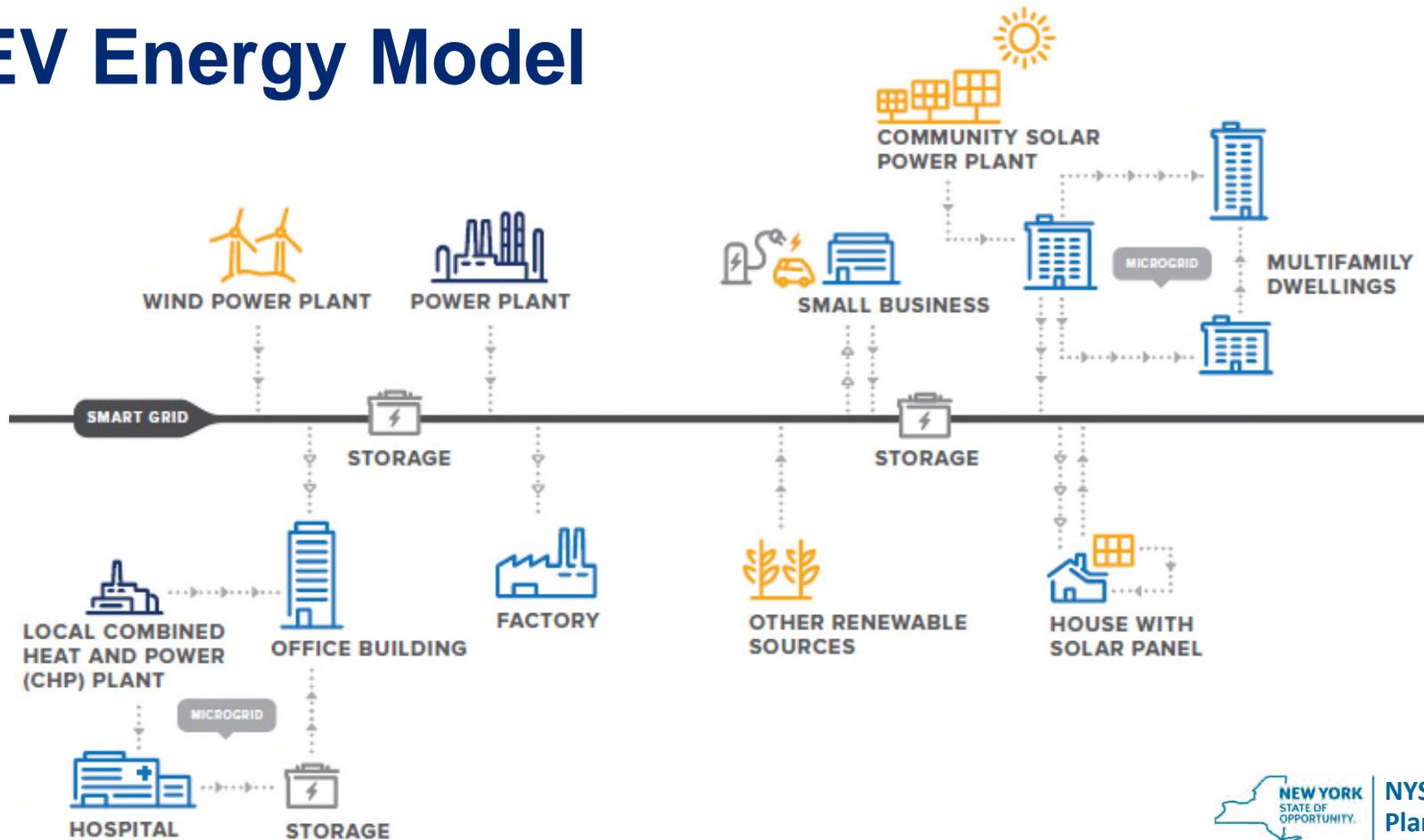
Turning Challenges into Opportunities

- Affordability
- Environment
- Reliability and Resiliency
- Regulatory Reform
- Environmental Justice
- Clean, Reliable Transportation

Vision for the Future: Guiding Principles

- Market Transformation
- Community Engagement
- Private Sector Investment
- Innovation and Technology
- Customer Value and Choice

REV Energy Model



Initiatives

- Renewable Energy
- Buildings and Energy Efficiency
- Clean Energy Financing
- Sustainable and Resilient Communities
- Energy Infrastructure Modernization
- Innovation and Research & Development
- Transportation

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.

NYPA Action Items

Renewable Energy Initiatives

- Large-Scale Renewables Strategy
- NY-Sun Initiative
- K-Solar
- Shared Renewables
- Offshore Wind Initiative

Buildings and Energy Efficiency Initiatives

- BuildSmart NY
- Energy Efficiency Measures in Affordable Housing Developments

Sustainable and Resilient Communities Initiatives

- Five Cities Energy Plans
- New York State Community Partnership
- REV Campus Challenge

Energy Infrastructure Modernization Initiatives

- Energy Highway
- Smart Generation and Transmission
- Strengthen Cyber Security
- Low-Cost Power for Economic Development

Innovation and Research & Development Initiatives

- Energy Storage R&D and Commercialization through NY-BEST and Brookhaven National Laboratory
- Advanced Grid Innovation Laboratory for Energy (AGILe)

Transportation Initiatives

- ChargeNY
- Clean Fleets NY and Innovative Ownership Models
- Efficient Public Transportation
- Expanding Transportation Demand Management Programs

Questions