



**NYS Energy
Planning Board**

The Energy to Lead

Biennial Report to the 2015 State Energy Plan

December 18, 2017

Statutory Requirement and Guidance

Biennial Report: Energy Law § 6-106(1)

“The board shall prepare biennial reports, every second year following the issuance of the final state energy plan, including a discussion and evaluation of the ability of the state and private markets to implement the policies, programs, and other recommendations as found in the state energy plan, and recommendations for new or amended policies as needed to continue successful movement towards implementation and realization of such policies and programs.”



Biennial Report Development Process

Convened NYS Energy Coordinating Working Group

- Planning Board Agencies + NYPA and LIPA
- Decided on general parameters of the document
 - Reviewed prior energy updates, including updates by other agencies
 - Determined a format for the document
- Gathered status updates for the 43 initiatives + additional initiatives
- Identified highlight initiatives

Biennial Report Structure

- Introduction
- Notable Achievements
- Seven Initiative Categories
 - Progress Synopsis
 - Initiative Highlight
 - How the Initiative is Working for New Yorkers
 - Initiative Tracker
- Where We Go From Here

Biennial Report Structure

New York call-outs – Progress Made; Future Direction

1. Energy Efficiency Principles
 - in Buildings and Energy Efficiency
2. Low/Moderate Income Clean Energy Initiatives
 - in Buildings and Energy Efficiency
3. Climate Policy
 - in Sustainable and Resilient Communities
4. Clean Energy Industry Report Summary
 - in Grid Modernization

Initiative Progress to Date

- Of the 43 initiatives introduced in 2015:
 - 3 are complete
 - 39 are in progress
 - Only one is in the stage of being launched
- 22 additional initiatives:
 - 2 in Renewable Energy
 - 1 in Buildings and Energy Efficiency
 - 13 in Sustainable and Resilient Communities
 - 6 in Energy Infrastructure Modernization

Highlight – Offshore Wind

- Governor Cuomo announcement of offshore wind goal of 2.4GW by 2030
- NYSERDA released blueprint for the Offshore Wind Master Plan
- LIPA Board approved New York's first offshore wind procurement
- State submitted to BOEM identification of four Wind Energy Areas for consideration

Highlight – New York Green Bank

- \$440.9 million capital deployed in support of 28 transactions, valued at \$1.59 billion
 - Each dollar leverages \$3 dollars from private sector partners
- Achieved self-sufficiency in March of 2017, one year earlier than expected
- Expanding focus to raise \$1 billion in private capital and provide support and assistance to other states

Highlight – Climate Smart Communities

- 210 communities have taken the 10 point Climate Smart Pledge
- 16 certified Climate Smart Communities
- DEC adopted sea level rise projections for the state, helping coastal communities understand potential impacts and better plan for the impacts of climate change

Highlight – ChargeNY

- 25,000 New Yorkers have purchased an electric vehicle, up from 500 in 2011
- \$55 million Drive Clean EV Rebate program designed to support up to 40,000 vehicle purchases
 - \$3 million in rebates distributed to New Yorkers
- 1,700 charging stations statewide

Where We Go From Here

Continuing New York's Climate Leadership

New York Greenhouse Gas Emissions Profile

from the New York State Greenhouse Gas Inventory, 2017 (to be published)

Electricity Generation	13.39%
Net Imported Electricity	03.71%
Transportation	33.47%
Residential	16.35%
Commercial	10.04%
Industrial	04.75%
Other sources	18.29%



Where We Go From Here

To meet the state's climate goals, New York State energy transitions will need to include:

- 1) energy efficiency and conservation in all sectors
- 2) “decarbonized” or zero- and low-carbon electricity
- 3) fuel-switching that replaces fossil fuel-based energy sources with electricity and lower-emitting biofuels

Where We Go From Here

Opportunity areas:

- **Buildings:** Electrifying thermal end-uses in buildings
- **Transportation:** Increasing light duty zero emission vehicles; medium- and heavy-duty vehicle efficiency; advanced, low-carbon biofuels
- **Industry:** Expanding partnerships with industrial leaders to improve energy efficiency and technology innovation
- **Electricity Generation:** Continue increasing renewables penetration
- **Non-Combustion Greenhouse Gases:** Cutting methane from all sectors and refrigerant gases



Planning Board Discussion

2019 State Energy Plan Process

Estimated 18 month process

- Prepare Working Draft Scope
- Stakeholder Outreach and Public Comment
- Scoping Document to Board
- Prepare Draft State Energy Plan and Reliability Study
- Draft State Energy Plan & Draft Reliability Study to Board
- Public Comment Period & Public Hearings
- Final State Energy Plan presented to the Board