



# New York State Offshore Wind Master Plan 2.0 Deep Water

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Offshore Wind Marine Fisheries Manager**

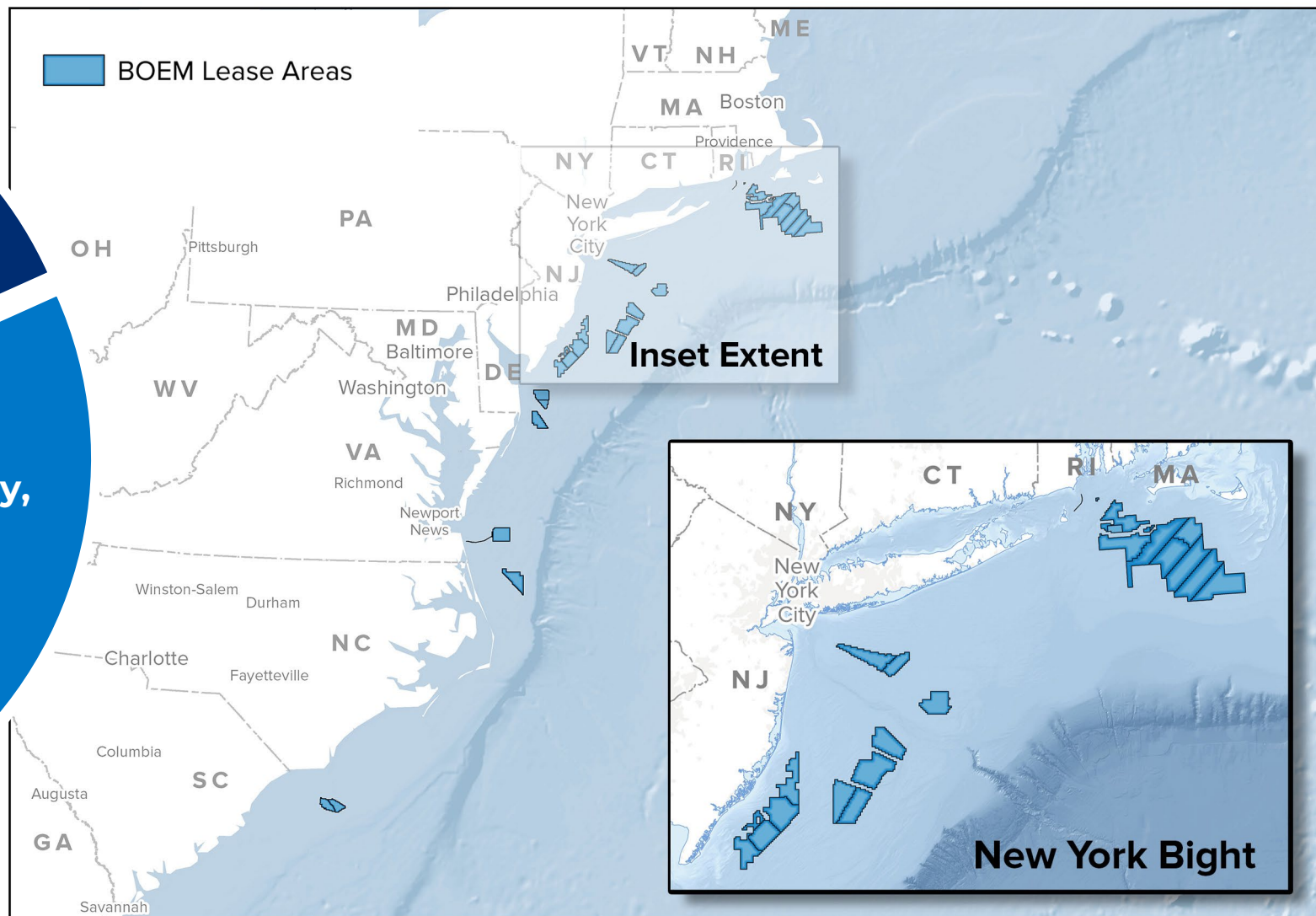
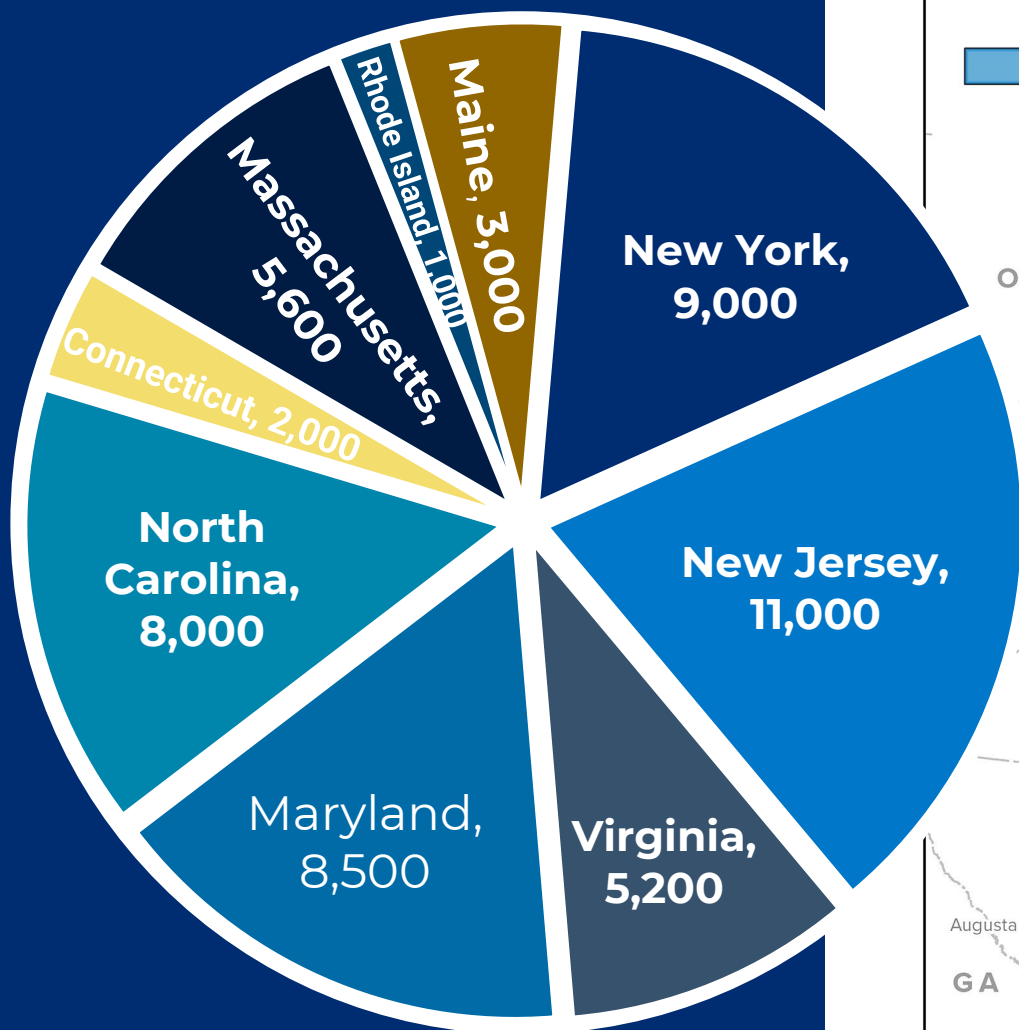
**October 2023 Mid-Atlantic Fisheries  
Management Council Meeting**

# East Coast

Goals **>50,000 MW**

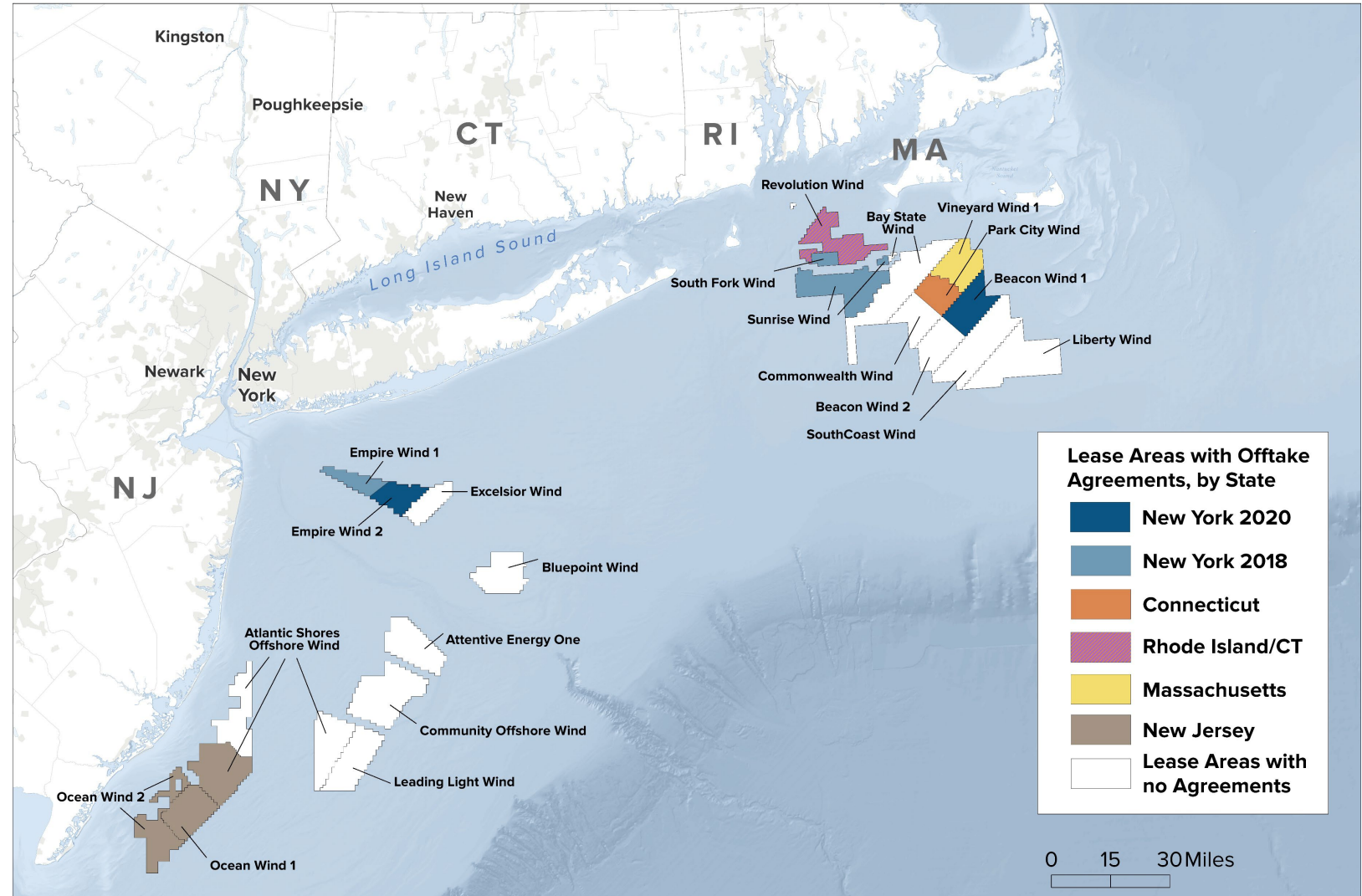
# FEDERAL Offshore Wind Goals

**30,000 MW by 2030 and 110,000 MW by 2050**



# Federal Lease Areas Off New York

- Offshore wind leases are being defined by BOEM in the Atlantic, the Pacific and the Gulf of Mexico
- Lease holders have the exclusive rights to try to develop the site for offshore wind
- Leases include an opportunity to site cables outside of the lease area
- Leases are valid for a period of 25 years of operation



# New York State Offshore Wind Goals

## **July 2019, New York State signed into law the Climate Leadership and Community Protection Act (Climate Act)**

- > Mandates a minimum of 9 GW of offshore wind by 2035
- > Requires New York State achieve an 85% reduction in emissions below 1990 levels by 2050 and 100% zero-emissions electricity by 2040
- > Created a Climate Action Council (CAC) charged with developing a scoping plan to provide recommendations to meet Climate Act targets and place New York on a path toward carbon neutrality

## **The CAC scoping plan suggests 16-18 GW of offshore wind energy may be necessary to ensure New York State achieves its Climate Act mandate**

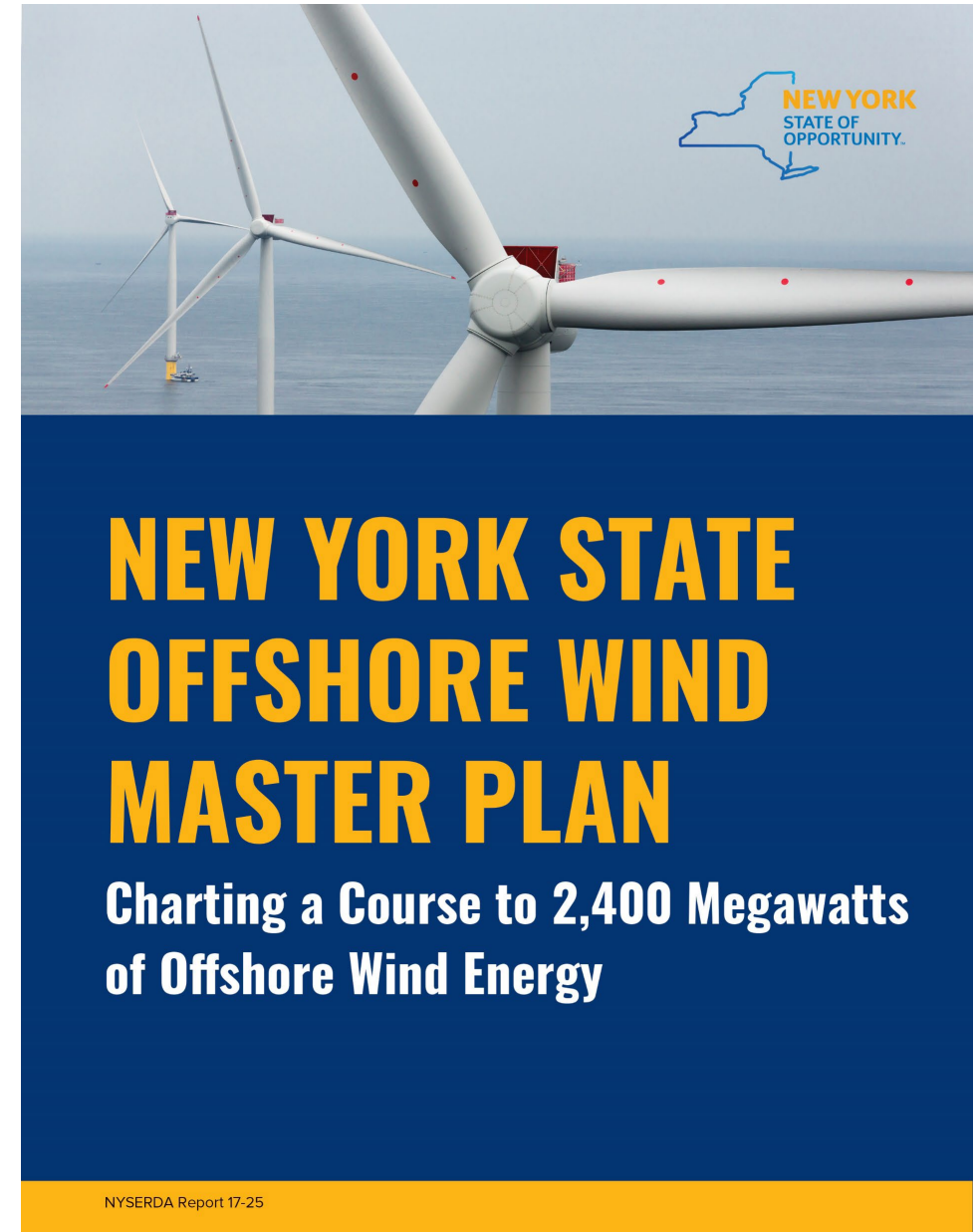
- > Planning, analysis, and engagement is critical for responsible development
- > Additional lease areas may be needed

# Offshore Wind Master Plan

**A comprehensive state roadmap for advancing development of offshore wind in a cost-effective and responsible manner**

## Key Elements

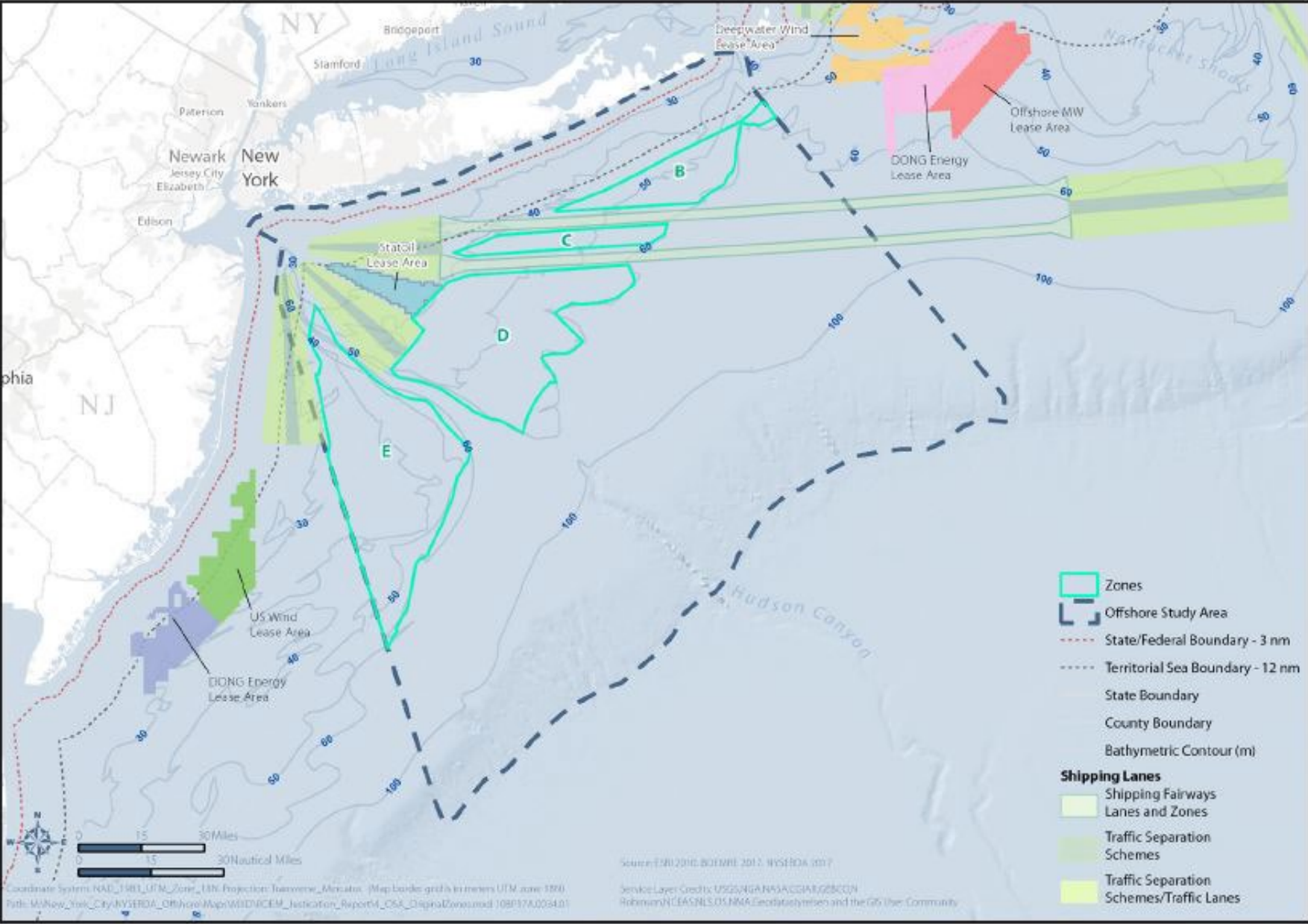
- > Identifies the most favorable areas for potential offshore wind energy development
- > Describes the economic and environmental benefits of offshore wind energy development
- > Addresses mechanisms to procure offshore wind energy at the lowest ratepayer cost
- > Analyzes costs and cost-reduction pathways
- > Recommends measures to mitigate potential impacts of offshore wind energy development
- > Identifies infrastructure requirements and assesses existing facilities
- > Identifies workforce opportunities

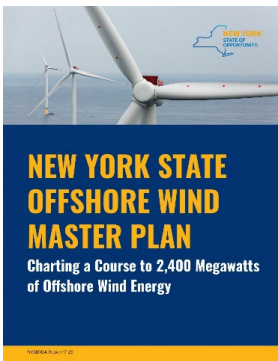
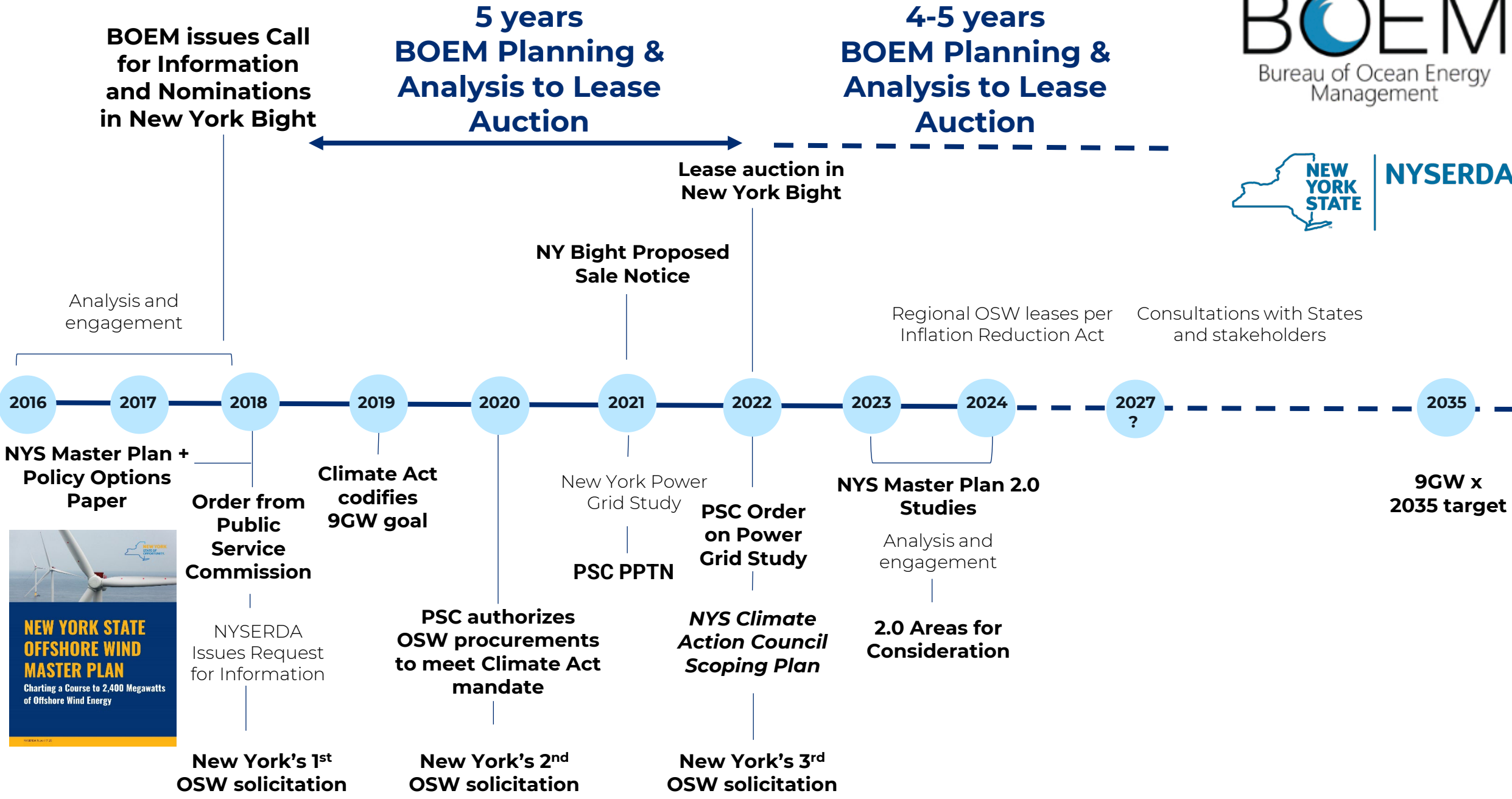


# 20 Master Plan Studies and Surveys

- > Analysis of Multibeam Echo Sounder and Benthic Survey Data
- > Assessment of Ports and Infrastructure
- > Aviation and Radar Assets Study
- > Birds and Bats Study
- > Cable Landfall Permitting Study
- > Cables, Pipelines, and Other Infrastructure
- > Consideration of Potential Cumulative Effects
- > Cultural Resources Study
- > Environmental Sensitivity Analysis
- > Fish and Fisheries Study
- > Health and Safety Study
- > Marine Mammals and Sea Turtles Study
- > Marine Recreational Uses Study
- > Offshore Wind Injection Assessment
- > Preliminary Offshore Wind Resource Assessment
- > Sand and Gravel Resources Study
- > Shipping and Navigation Study
- > U.S. Jones Act Compliance Offshore Wind Turbine Installation Vessel Study
- > Visibility Threshold Study
- > The Workforce Opportunity of Offshore Wind in New York

# Master Plan 1.0 Study Area









# Master Plan 2.0 Objectives

Serve as an **organizing principle** for all offshore wind work ensuring a robust and transparent strategy for achieving New York's 9-GW goal

Foster ongoing and proactive **stakeholder engagement**

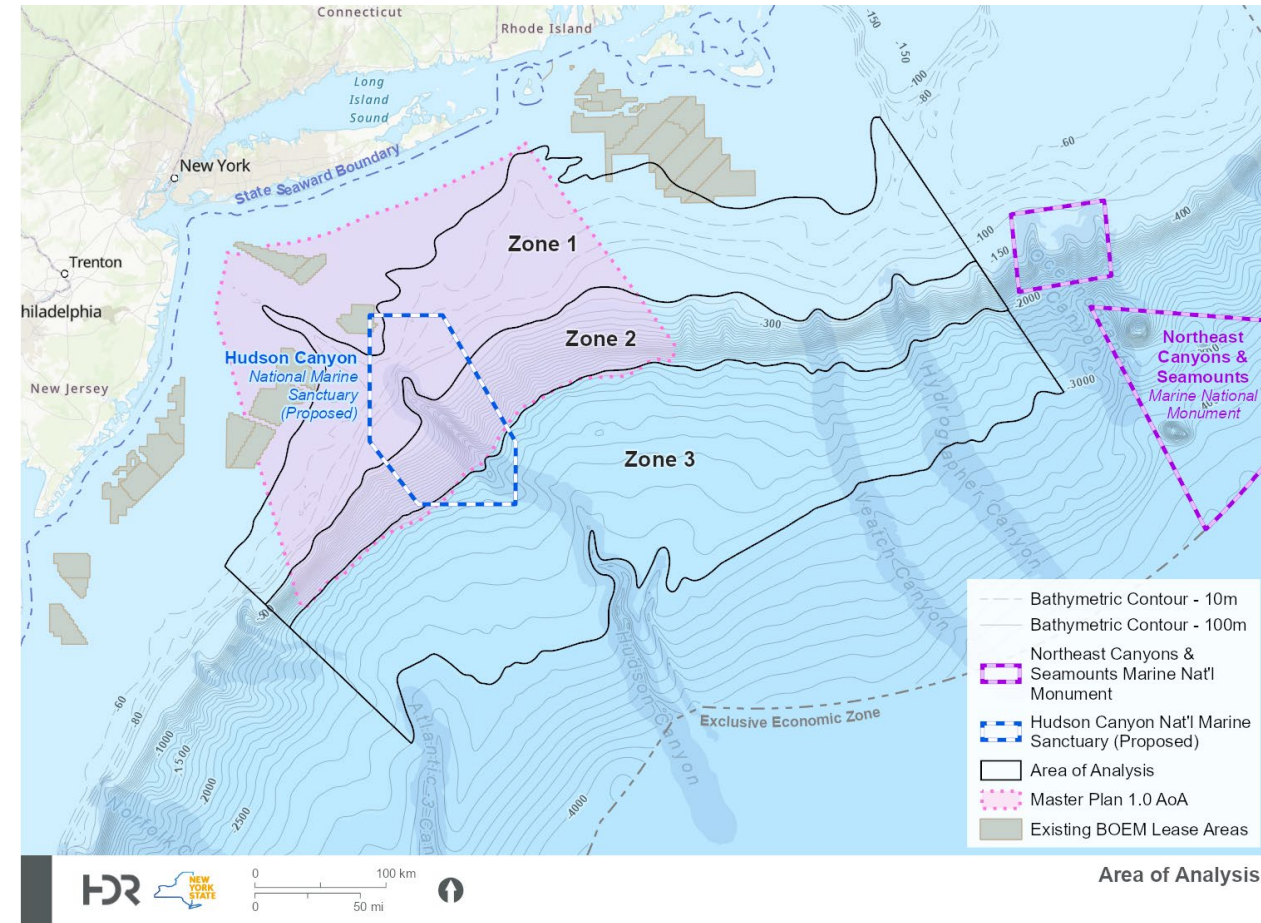
Enable New York State to assess and **characterize the risks and opportunities** for offshore wind development in a comprehensive, sequential, and logical approach to achieve 9 GW and beyond

# Master Plan 2.0 Geographic Scope

## Master Plan 2.0 Study Area:

**Study area extends east from the 60-meter contour out past the continental shelf break to the edge of the 3,000-meter contour**

- > **Zone 1** (remaining shelf) extends from the 60-meter contour to the continental shelf break
- > **Zone 2** spans the steeply sloped continental shelf break (unique canyon habitats)
- > **Zone 3** extends from the continental shelf break out to the 3,000-meter contour





# Master Plan 2.0 Track 1 Studies: **To inform “Areas for Consideration”**

## **Environment**

- > Birds and Bats
- > Fish and Fisheries
- > Marine Mammals and Sea Turtles
- > Benthic Habitats
- > Environmental
- > Sensitivity Analysis

## **Maritime Activity**

- > Maritime Assessment: Commercial and Recreational Uses

## **Technology**

- > Offshore Wind Resource Assessment
- > **Deep Water Wind Technologies: Technical Concepts**

## **Feasibility**

- > Technology Assessment and Cost Considerations

# Master Plan 2.0 - 2023 Timeline

## April - August

- > Literature and data request
- > Project Advisory Committee provide feedback project goals, data sources
- > TWG Environmental and Fisheries Studies Review

## September

- > Draft study discussions commence
- > **September 11: E-TWG Discussion**
- > **September 22: F-TWG Discussion**
- > Reviewer feedback is incorporated in final studies, as appropriate

## October

- > **October 31: all studies and TWG feedback finalized**
- > Legal Review
- > Draft Areas for Consideration Report

## November - December

- > November 1: Final Areas for Consideration Report
- > Areas for Considerations Report
- > **Finalize Master Plan 2.0 supporting studies**
- > **Cumulative Impacts Study**
- > Ideas for additional studies welcomed by NYSERDA

### Timeline Goal:

**Seek to make a formal request of BOEM early in 2024 based upon consideration of studies, input from regional states and stakeholders, and concurrence from State agencies.**



Credit: Vesta

# Potential Master Plan 2.0 2024-2025 Studies:

## **Environmental, Fisheries, Maritime**

> **Cumulative Impacts Study**

## **Transmission**

> Transmission planning and interconnection

## **Supply Chain**

> Port Performance Permitting

> Wind Turbine Vessel and Technology Study

> Supply Chain Opportunities Analysis

## **Workforce**

> Workforce Opportunities

## **Disadvantaged Communities**

> Disadvantaged Communities: Cumulative Impacts

> Catalogue of Assets

# Thank You

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**NYSERDA**