



NYSERDA

**Department of
Environmental
Conservation**

Overview of the State Process, Objectives and Role of TWGs

November 2, 2018

New York State will commit to building:

**up to 2,400 megawatts of offshore
wind power by 2030, which will
generate enough power for up to
1.2 million homes.**

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



NEW YORK STATE OFFSHORE WIND MASTER PLAN

**Charting a Course to 2,400 Megawatts
of Offshore Wind Energy**

20 Master Plan Studies and Surveys

Study Name
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

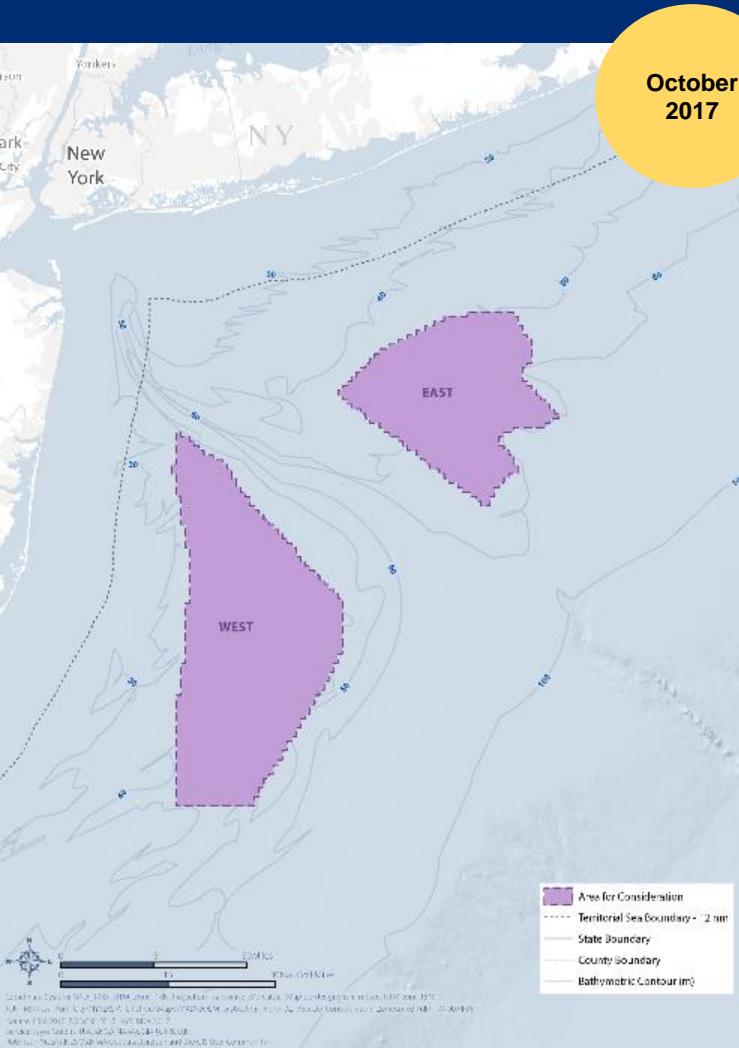
Study Name (cont'd)
Marine Mammals and Sea Turtles Study
Marine Recreational Uses Study
Offshore Wind Injection Assessment
Preliminary Offshore Wind Resource Assessment
Sand and Gravel Resources Study
Shipping and Navigation Study
U.S. Jones Act Compliance Offshore Wind Turbine Installation Vessel Study
Visibility Threshold Study
The Workforce Opportunity of Offshore Wind in New York



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Siting



Area for Consideration

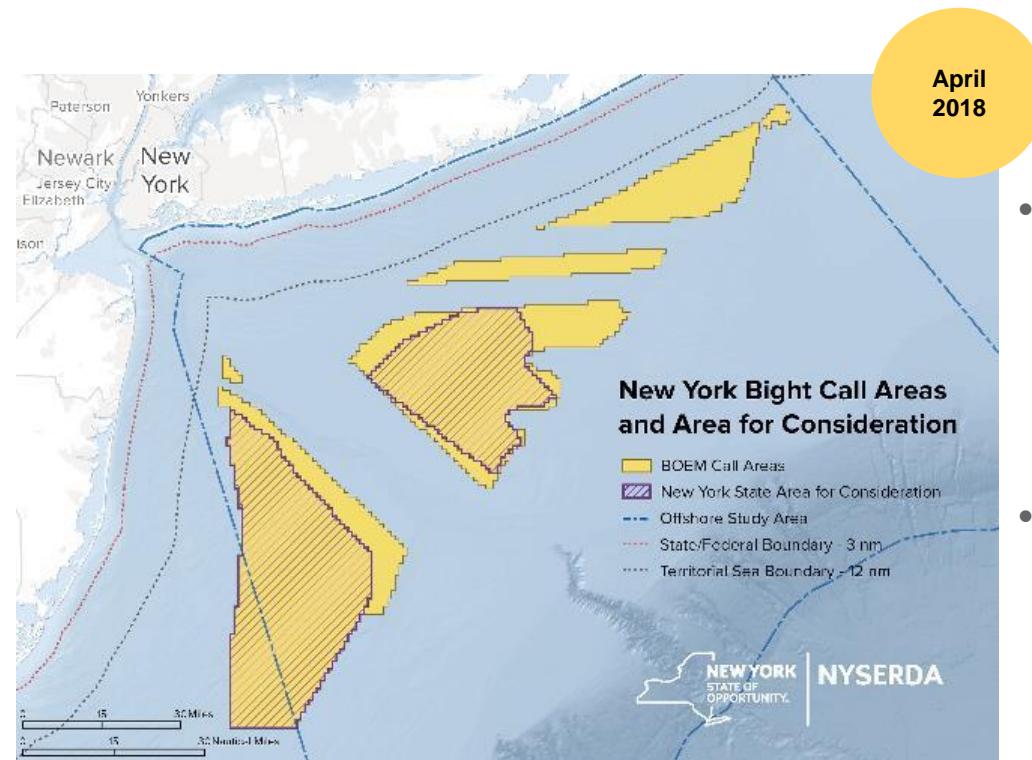
- New York State requested BOEM to identify and lease at least four new Wind Energy Areas within the Area, each capable of supporting at least 800 MW of offshore wind energy
- Refined from the original offshore study area to account for:
 - Visibility
 - Wake effects
 - Historic properties
 - Construction costs
 - Navigational concerns
 - Interconnection feasibility
 - Submarine cable costs and fishery concerns
 - Fishing industry concerns
 - Marine mammal impacts



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BOEM Call Areas and NYS Area for Consideration



- BOEM published a Call for Information and Nominations allowing stakeholders provide feedback on the potential for development of new wind energy areas in the New York Bight
- Geographic areas included in the Call Area fall outside of New York's recommended Area for Consideration

NYS Comments to BOEM

July
2018

- New York State submitted comments to BOEM in response to the Call for Information and Nominations
- Reaffirms the State's identification of the Area for Consideration as the most optimal area to develop offshore wind as it:
 - Presents the fewest conflicts with ocean users, resources, infrastructure, and wildlife
 - Has the greatest potential for the cost-effective development of offshore wind energy to meet the State's renewable energy goals
- Available online:
 - https://www.governor.ny.gov/sites/governor.ny.gov/files/atoms/files/NYS_BOEM_NY_Bight_Call_Comments.pdf



Procurement (offtake)



Offshore Wind Policy Options Paper

- Provides an assessment of alternatives for addressing a wide range of policy issues relevant to the successful deployment of a first phase (800 MW) of offshore wind energy
- Components include:
 - Procurement and contracting
 - Seven options for contract structures
 - Schedule of future procurements
 - Methods to ensure ratepayer protection
 - Funding mechanisms through load serving entity obligations
 - Transmission and interconnection strategies
 - Cost and benefit analysis

Offshore Wind Standard

July
2018

- The Public Service Commission issued an Order directing NYSERDA, in consultation with NYPA and LIPA, to procure approximately 800 MW of offshore wind between 2018 and 2019
 - Public Service Commission Case **18-E-0071**
- Authorized NYSERDA to include certain provisions in its request for proposals (RFP) including:
 - Commitments to project labor agreements and prevailing wages as contract requirements for any awarded project
 - **Provisions to ensure that awarded offshore wind projects consider the interests of ocean users such as commercial and recreational fishing, environmental stakeholders, and coastal communities**



Request for Information (RFI OSW-2018)

- Issued in response to the Offshore Wind Standard to gather feedback from developers and other interested parties on the mechanics of NYSERDA's first offshore wind RFP
- Responses from a variety of stakeholders including:
 - Utilities
 - Project developers
 - Labor representatives
 - Government agencies
 - Community organizations
 - Commercial fishing industry
 - Environmental organizations
- Available online:

<https://www.nyserda.ny.gov/All-Programs/Programs/Offshore-Wind/Offshore-Wind-Solicitations/Generators-and-Developers/Request-for-Information>



The screenshot shows a document titled "RFI OSW-2018" dated August 10, 2018. The document is a Request for Information (RFI) for Offshore Wind Renewable Energy Credits (OSW) issued by the New York State Energy and Research Development Authority (NYSERDA). It includes sections for comments due by August 10, 2018, and a purpose statement regarding the development of a Request for Proposals (RFP) for Offshore Wind Renewable Energy Credits (OSW) pursuant to the New York State Public Service Commission (PSC) Order of Relating (Offshore Wind Standard and Framework for Phase 2) Procurement issued in Case No. 18-E-0073 and dated July 22, 2018.

Comments Due: August 10, 2018 By 5:00 p.m. Eastern Time*

The purpose of this Request for Information (RFI) is to acquire feedback that will assist the New York State Energy and Research Development Authority (NYSERDA) in developing a Request for Proposals (RFP) for Offshore Wind Renewable Energy Credits (OSW) pursuant to the New York State Public Service Commission (PSC) Order of Relating (Offshore Wind Standard and Framework for Phase 2) Procurement issued in Case No. 18-E-0073 and dated July 22, 2018.

26 sets of comments

NYSERDA will hold a technical conference on Monday, July 23 from 1:00 to 4:00 p.m. ET to discuss topics related to the solicitation process and this RFI at the Department of Public Service's New York City office [80 Church Street] and via webinar.

- If you wish to participate in person, you must RSVP to nyserda@nysed.ny.gov no later than 5:00 p.m. ET on Friday, July 20.
- If you plan to participate via webinar, please [register online](http://go2webinar.com).

Confirmation of person registration and/or webinar access will be emailed to participants following receipt of RSVP or registration.

If you have technical questions regarding this RFI, please contact nyserda@nysed.ny.gov.

August
2018



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Draft Request for Proposals (RFP)

Sept.
2018

Scoring Criteria	Contract Requirements	Steps
<ul style="list-style-type: none">• 70% Bid Price• Same weighting as Renewable Energy Standard Tier 1• 20% Economic Benefits<ul style="list-style-type: none">• Must include a local content requirement, but has discretion in designing• 10% Project Viability<ul style="list-style-type: none">• Increase weight from Renewable Energy Standard Tier 1 solicitations to account for expiring federal tax credits	<ul style="list-style-type: none">• Project labor agreement and prevailing wage requirement• Submit a fisheries and environmental mitigation plan• Participate in New York's technical working groups (TWGs)• Consult with relevant State agencies around fishing, wildlife, and the environment• Make environmental data collected during site assessment publicly available• Implement lighting controls to minimize nighttime visibility• Minimize visual impacts	<ul style="list-style-type: none">• Fall 2018: Draft RFP issued<ul style="list-style-type: none">• Accepted public comments; held confidential in preparation of the final RFP• Fall 2018: Final RFP issued• Winter 2019: RFP due• Spring 2019: NYSERDA notifies awardees• Summer 2019: Contract executed

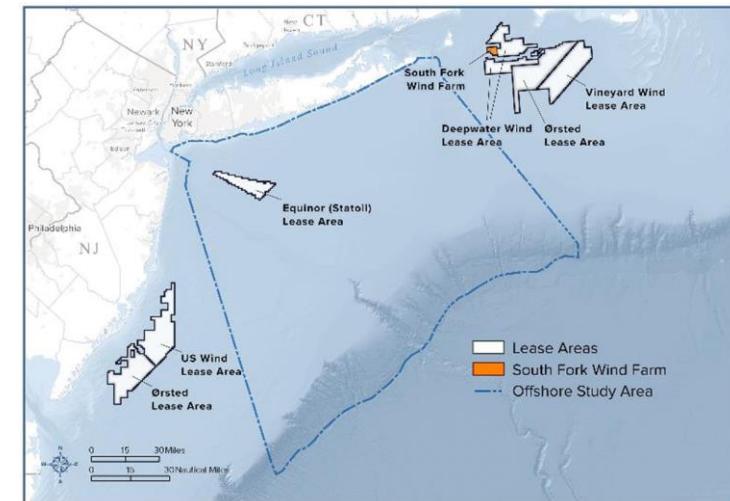


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Fishing Related Aspects of the RFP

- Eligible Sites include those off the coasts of MA, RI, NY and NJ
- Proposals must include a Fisheries Mitigation Plan including:
 - Communications and collaboration
 - Monitoring and research pre-, during- and post-construction
 - Support of other research
 - Site design considerations
 - Construction ad operations
 - Decommissioning
 - Fisheries Compensation Plan (optional)



Fishing Related Aspects of the RFP (continued)

- Selected Proposers Must:

- Participate in the F-TWG and engage with relevant stakeholder groups within the TWG regarding the proposed project
- Consult with NYS Agencies in the development of federal permits
- Make “Environmental Data” publicly available shortly after collection to ensure timely and transparency in environmental resource data



Questions

Technical Working Groups

Technical Working Groups

Environmental



Commercial and Recreational Fishing



Maritime



Jobs and Supply Chain



- Development of Wildlife Best Management Practices.
- Coordination for adaptive management.
- Identification of research needs and coordination.

- Development of Fisheries Best Management Practices.
- Identification of research needs and coordination.
- Development of a framework for understanding commercial fishing impacts.

- Development of Maritime Best Management Practices.
- Define strategies that could help members engage effectively with OSW development.

- Facilitate the connection of local manufacturers with global OSW developers and equipment manufacturers.
- Ensure certification and training requirements are clear and readily available.

Jobs and Supply Chain Technical Working Group

- Connecting the local supply chain to the global offshore wind industry and original equipment manufacturers
 - *Supply Chain Database currently being created*
 - *Supply Chain Symposium being held in November*
- Advising as to the use of \$5 million to support infrastructure advancement
 - *Evaluating cost and feasibility of several port facilities in New York State through 2018 Ports Assessment*
- Advising as to the use of \$10 million to fund OSW workforce training from 2018 to 2025
 - Vocational training
 - Training facilities
 - Certification programs
 - Union training
 - Apprenticeship opportunities
 - Curriculum development



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Maritime Technical Working Group

- Focusing on developing best management practices
 - Engaging members of the maritime industry
 - Pilots
 - Tug/barge operators
 - Others
 - Coordinating with State and federal agencies
 - Port Authority of New York and New Jersey
 - Department of Environmental Conservation
 - Department of Public Service
 - U.S. Coast Guard
 - BOEM
 - Soliciting input from offshore wind developers
- Committed to smart development
 - New ideas, lessons learned from Europe



Led by
NYSERDA

Environmental Technical Working Group

- Comprised of eNGO's and offshore wind developers; supported by State and federal regulators and regional states
- Advising the State regarding the environmentally responsible development of New York's offshore wind energy resources by:
 - Developing a transparent process for identifying and addressing priority issues relating to wildlife monitoring and mitigation
 - *Synthesis of best management practices underway*
 - *Environmental Mitigation Plans required in the procurement*
 - Reducing permitting risk and uncertainty by improving clarity in expectations and processes for wildlife monitoring and mitigation
 - *Developers required to consult with State on federal permitting*
 - *Developers required to release environmental data after collection*
 - Improving understanding of potential effects of offshore wind energy development on wildlife
 - *New research solicitation planned for release this fall*



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Commercial and Recreational Fishing Technical Working Group

- Comprised of fishing organizations and offshore wind developers; supported by State and federal regulators and regional states
- Provide advice and guidance the State on OSW development while protecting the region's valuable fisheries and fishing communities
- Improve communications and coordination between the fishing community and developers
- Provide a forum for discussions of interest to the group supported by technical knowledge, science and data



Fishing Technical Working Group Objectives

General Work:

Commercial and
Recreational Fishing



- Develop a menu of fisheries Best Management Practices
- Identify and support research needs for fishermen and offshore wind industry
- Enhance communication and coordination between the fishing community and offshore wind industry
- Disseminate information related to existing data, research, and information
- Identify the basic structure for Mitigation Planning
- Other opportunities (e.g. Transit Lanes)?

Fishing Technical Working Group Objectives

Site Specific Work (not including all developers):

Commercial and
Recreational Fishing



- Review selected project specific Mitigation Plans
- Discuss options to inform the evolution of the Mitigation Plan as the project progresses
- Other topics of value to both groups

Additional State Activities related to F-TWG

- Hiring a Fisheries Liaison (NYSERDA) to gather more feedback from the fishing community and improve communications and coordination regionally
- Coordination with recreational fishing
- Centralized fisheries information website
- State of the Science Workshop – Environmental TWG Sponsored Woodbury, New York (Long Island) – November 13th and 14th
- Fisheries Science Workshop – Winter 2019?

Department of Environmental Conservation's Role

- Consult with selected developer(s) on approach to develop federal permits
- Statutory Party in the PSC Article VII Process for export cables in NYS waters (3 nautical miles)
- Provide input to DOS's coastal zone consistency determination
- Provide comments to BOEM during NEPA process for WEA leases and individual project reviews
- DEC could be a cooperating agency for the BOEM NEPA process
- Technical experts for the State for Marine Resources issues
- Supporting the State's advancement of responsible and cost-effective OSW

NYSERDA's Role

- Empowered by NYS PSC to serve as NYS's Procurement entity for OSW energy
- Supporting the State's advancement of responsible and cost-effective OSW
- Coordinating workforce and supply chain efforts capture economic benefits
- Responsible for a host of energy planning and energy policy work for NYS
- Coordinating OSW with State and Federal agencies
- Supporting scientific research to inform decision making and to understand and minimize risks.

Questions