New York State Offshore Wind
Public Webinar | February 13, 2019
Presentation Outline

• 2018 Regional Market Updates
• 2019 New York State Updates
  • 2018 Solicitation
  • Stakeholder Engagement
  • New and Upcoming Analyses
• Upcoming Events and Activities
• Q&A
Developments in the Northeast

Ørsted acquired Rhode Island-based Deepwater Wind

BOEM held auction for three Lease Areas in Massachusetts totaling $405 million

Atlantic Shores Offshore Wind (EDF-RE/Shell) acquired New Jersey Lease Area
Regional Offshore Wind Procurement

**MA**
Vineyard Wind was selected to deliver **800 MW** of offshore wind energy to Massachusetts

**RI**
Deepwater Wind’s (Ørsted’s) Revolution Wind was selected deliver **400 MW** of offshore wind energy to Rhode Island

**CT**
Ørsted’s Revolution Wind was selected to deliver **300 MW** of offshore wind energy to Connecticut
New York State Activities

Master Plan
- Jan.
  - Call for Information and Nominations

Offshore Wind Standard
- Jul.
  - R&D Consortium Award

Offshore Wind RFP
- Nov.
  - RFI
  - Draft RFP
  - Draft Wind Energy Areas
  - Supplier Forum & State of the Science
  - Task Force Meeting

NYSERDA PSC
- Offshore Wind RFP
- Supplier Forum & State of the Science
- Task Force Meeting

New York State Offshore Wind Master Plan
Charting a Course to 2,400 Megawatts of Offshore Wind Energy

Purchase of Offshore Wind Renewable Energy Certificates
Request for Proposals (ORECRFP18-1)
New York State’s recommendations presented at BOEM’s Task Force Meeting in November 2018

- Remove the Fairways North and Fairways South draft areas
- Discuss areas outside Area for Consideration with stakeholders
- Convert all remaining Primary and Secondary areas to the Wind Energy Area
- Delineate and lease all areas within the Wind Energy Area in 2019 such that they:
  - Make the best use of the space
  - Maximize competition
  - Minimize development costs
  - Consider transit for fishing and other maritime users prior to leasing
2019 New York State Updates
Green New Deal

Governor Andrew M. Cuomo has made a historic commitment to transforming New York’s electricity sector to be **100% carbon-free by 2040** and putting the State on the path to eventually eliminating its carbon footprint all together.
OFFSHORE WIND ENERGY

9,000 MW

BY 2035

Largest Commitment in the U.S.

enough to power up to 6 million homes
2019 State of the State Offshore Wind Proposals

**Port Infrastructure**
Invest up to $200 million in port infrastructure to match private sector investment in regional development of offshore wind to capture long-term economic benefits for New Yorkers.

**Workforce Development**
Establish the New York State Advisory Council on Offshore Wind Economic and Workforce Development and invest in an offshore wind training center to provide New Yorkers with the required skills and safety training.

**Transmission**
Evaluate and facilitate the development of an offshore transmission grid to benefit New York ratepayers by driving down offshore wind generation and integration costs.
2018 Solicitation
2018 Solicitation Overview

• Competitive solicitation to purchase Offshore Wind Renewable Energy Certificates (ORECs) for projects from 200 MW to 800 MW or more for up to 25 years

• Contract Requirements
  • Participation in New York State’s Technical Working Groups
  • Prevailing Wage and Project Labor Agreements
  • Consultation with New York State Agencies
  • Site and Environmental Data Transparency
  • New York State Supplier Opportunity
  • Environmental Mitigation
  • Fisheries Mitigation
  • Lighting Controls
Notice of Intent to Propose

5 Notices of Intent to Propose Received
December 20, 2018

Filings of Notice of Intent to Propose: New York 2018 Offshore Wind Solicitation
Proposal Evaluation and Next Steps

- NYSERDA will employ a scoring system that weighs price and non-price factors for a maximum total of 100 points
  - 70% Price
  - 20% Economic Benefits
  - 10% Project Viability

- Next Steps
  - **Bids Due:** February 14, 2019
    - Public versions of Proposals will be made available on NYSERDA’s Offshore Wind website
  - **Award(s):** Spring 2019
  - **Contracts(s):** Summer 2019
Stakeholder Engagement
Technical Working Groups – Environmental

• In November 2018, NYSERDA hosted its first State of the Science Workshop to bring together stakeholders engaged with environmental and wildlife research relevant to offshore wind energy development

• Workshop highlights
  • 183 workshop participants
  • 8 sessions with 32 presentations
  • 45 posters at evening poster session
  • Attendees and presenters from along the Eastern Seaboard, the UK, Belgium, and the Netherlands

★ Report coming Spring 2019
Technical Working Groups – Environmental

• Developing a synthesis of best management practices (BMP)/monitoring and mitigation practices (MMP) interactive tool that will be made publicly available and for use in discussions around Environmental and Commercial Fishing Mitigation Plans

• Initiating discussions around development of BMPs from MMPs at the project level (e.g. Vineyard Wind right whale agreement) and at the regional level for consideration in New York State procurements
Technical Working Groups – Commercial Fishing

• NYSERDA, in partnership with the New York State Department of Environmental Conservation and the Responsible Offshore Development Alliance, will be hosting a workshop on commercial fishing transit lanes and offshore wind energy on March 27, 2019 at Danfords Hotel, Marina, and Spa, 25 E Broadway, Port Jefferson, NY 11777.

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Technical Working Groups – Maritime

• Kick-off meeting held January 2019 by the Office of Planning and Development at the New York State Department of State

• Working goals identified:
  • Engage the maritime community and regulators in an unofficial and non-decision-making information sharing advisory capacity
  • Seek input from maritime stakeholders by drawing upon their collective technical knowledge and practical experience
  • Build off existing regional efforts
  • Include representatives of the USCG, PANYNJ (and the Harbor Operations committee), maritime and navigation communities and engagement of other state and federal agencies
  • Consult with the offshore wind development industry in an ad hoc manner and on an as needed basis
Technical Working Groups – Jobs and Supply Chain

• In November 2018, NYSERDA held its first New York Offshore Wind Supplier Forum to facilitate the introduction of offshore wind developers and suppliers to local companies
  • Attended by over 300 individuals and over 150 companies interested in offshore wind supply chain opportunities

• Developed the New York Offshore Wind Supply Chain Database to encourage in-state partnerships and attract international leaders across the offshore wind supply chain to New York companies (recently updated)

Visit http://nyserda.ny.gov/supply-chain-database
Technical Working Groups – Jobs and Supply Chain

• Issuing funding opportunities for offshore wind workforce training as part of the State’s $10 million commitment
  • Vocational training
  • Training facilities
  • Certification programs
  • Union training
  • Apprenticeship opportunities
  • Curriculum development

• Recently published 6 new studies on port infrastructure using guidance from the Technical Working Group
New and Upcoming Analyses
2018 Ports Assessment

General Studies

2018 Ports Assessment: Offshore Wind Operations and Maintenance Port Facilities

Final Report | NYSERDA Report Number 15-05 | January 2019

2018 Ports Assessment: Unrestricted Air Draft Facilities Alternatives Assessment

Final Report | NYSERDA Report Number 15-06 | January 2019
2018 Ports Assessment

Site-Specific Studies
Environmental and Metocean Data

- Light Detection and Ranging (LiDAR) systems are being deployed to measure turbine hub-height wind speed and direction, wave and current measurements, and other environmental data.

- Will help increase certainty of development conditions to inform planning project layout, turbine siting, and engineering.

- Data will be made available to the public on an ongoing basis to encourage broad use and inform additional studies:
  - Ocean Tech Services - Floating LiDAR System Supplier
  - Normandeau Associates – Environmental Data
  - DNV GL – Data Management and Analysis Contractor
Environmental and Metocean Data

- **Location:** New York Bight, BOEM draft Wind Energy Areas

- **Time period:** 2 year deployment; possible relocation
  - “Bankable” Metocean data
    - Wind
    - Waves
    - Currents
    - Other meteorological data
  - **Wildlife data**
    - Bird acoustic monitoring
    - Bat acoustic monitoring
    - Marine mammal hydrophone and data logger
    - Nanotag receiver
Environmental and Metocean Data

Outputs:

• Metocean data will be made publicly available via DNV GL data portal, plus annual reporting

• Wildlife data via Normandeau “REMOTE” data platform, plus reporting summarizing wildlife data including species occurrence, seasonal patterns, presence of T&E species
Environmental & Commercial Fishing Research Solicitation

• Expected to be released in March 2019

• $2,000,000 available across multiple topics

• Proposed topical areas:
  • Ecosystem dynamics
  • Wildlife monitoring protocols
  • Citizen science opportunities
  • Fishing access within arrays
  • Cold pool mixing
National Offshore Wind Research & Development Consortium

- Dedicated to managing industry-focused research and development of offshore wind to maximize economic benefits for the U.S.

- Prioritized **Research and Development Roadmap** and **Notice of Upcoming Technical Challenges** published in November 2018

- First solicitations expected in Q1 of 2019
  - Offshore Wind Plant Technology Advancement
  - Offshore Wind Power Resource and Physical Site Characterization
  - Installation, O&M and Supply Chain Solutions
Upcoming Events and Activities
Upcoming Events and Activities

• 2018 solicitation bids are due **February 14, 2019**
  • Public versions of Proposals will be made available on NYSERDA’s Offshore Wind website [nyserda.ny.gov/offshore-wind-2018-solicitation](http://nyserda.ny.gov/offshore-wind-2018-solicitation)
  • **Award(s):** Spring 2019
  • **Contracts(s):** Summer 2019

• First Offshore Wind Research & Development Consortium solicitation expected **February 2019**

• Environmental and commercial fishing research solicitation expected **March 2019**

• Commercial Fishing Transit Lanes and Offshore Wind Energy Workshop being held **March 27, 2019**
  • Danfords Hotel, Marina, and Spa
    25 E Broadway, Port Jefferson, NY 11777
Questions?

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