

# 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





# 2018 Regional Market Updates

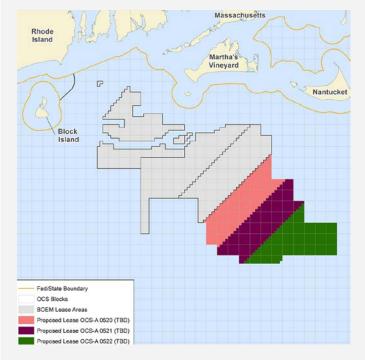


#### **Developments in the Northeast**

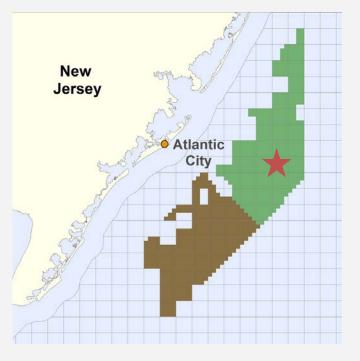
Ørsted acquired Rhode Islandbased Deepwater Wind



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

#### СТ

Ørsted's Revolution Wind was selected to deliver **300 MW** of offshore wind energy to Connecticut

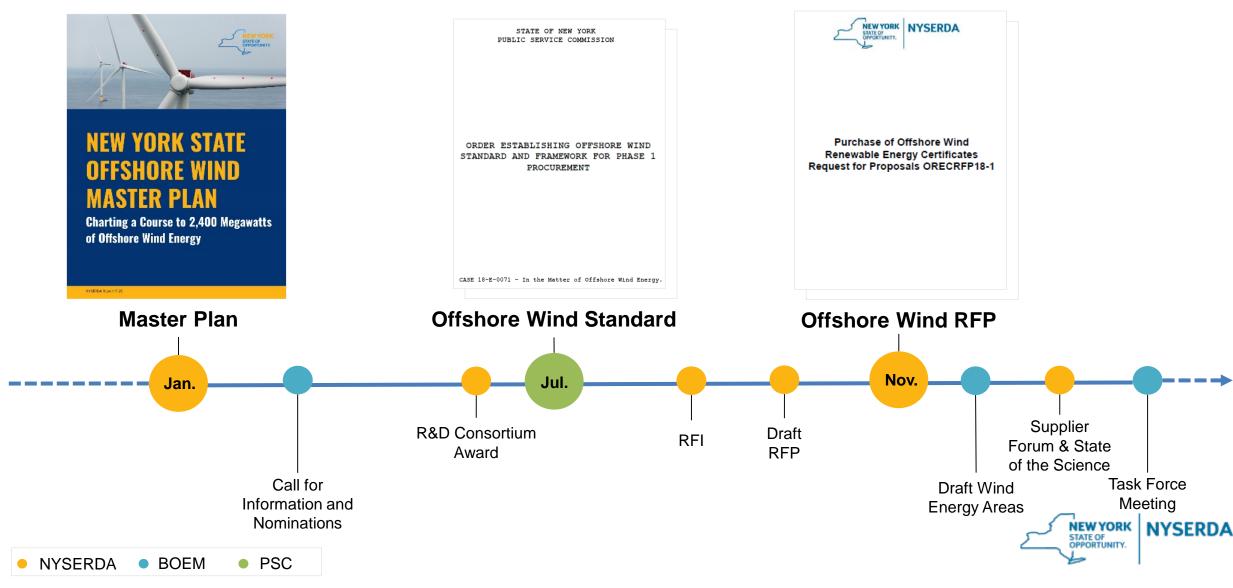




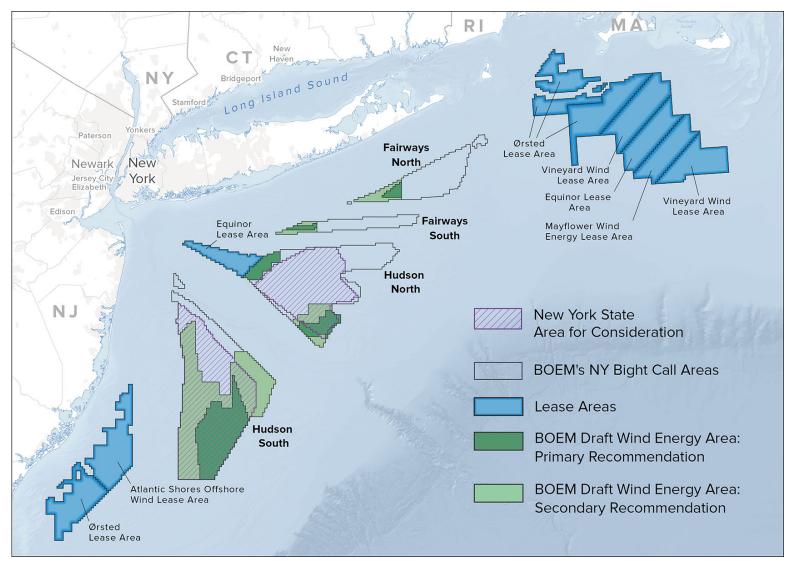




#### **New York State Activities**



### **Siting and Area Identification**



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 **ZU**3

# **OFFSHORE WIND ENERGY**

### Largest Commitment in the U.S.

9,000 MW

**BY 2035** 

# 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

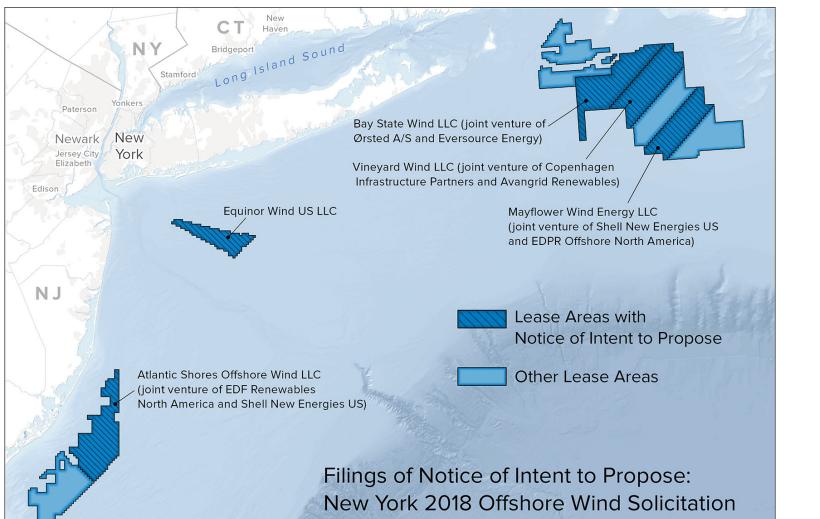
#### Contract Requirements

- 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



**OPPORTUNITY** 

### **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

nyserda.ny.gov/offshore-wind-2018-solicitation

- 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**

**March 27, 2019** 

Danfords Hotel, Marina, and Spa

25 E Broadway, Port Jefferson, NY 11777

 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



 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

### **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



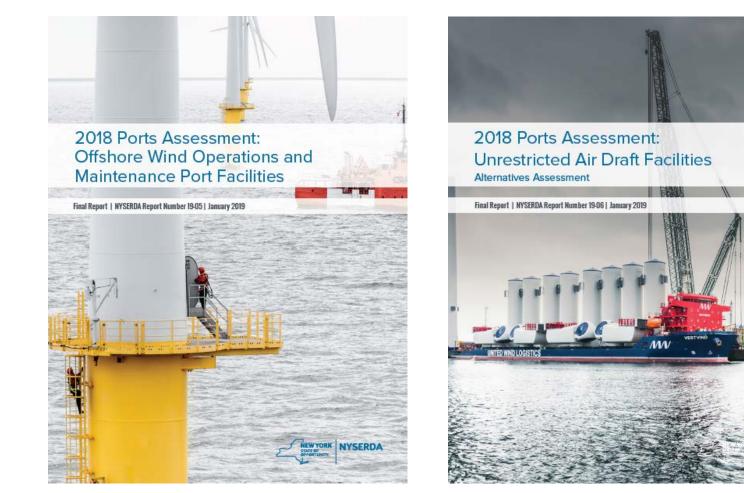


# New and Upcoming Analyses



#### **2018 Ports Assessment**

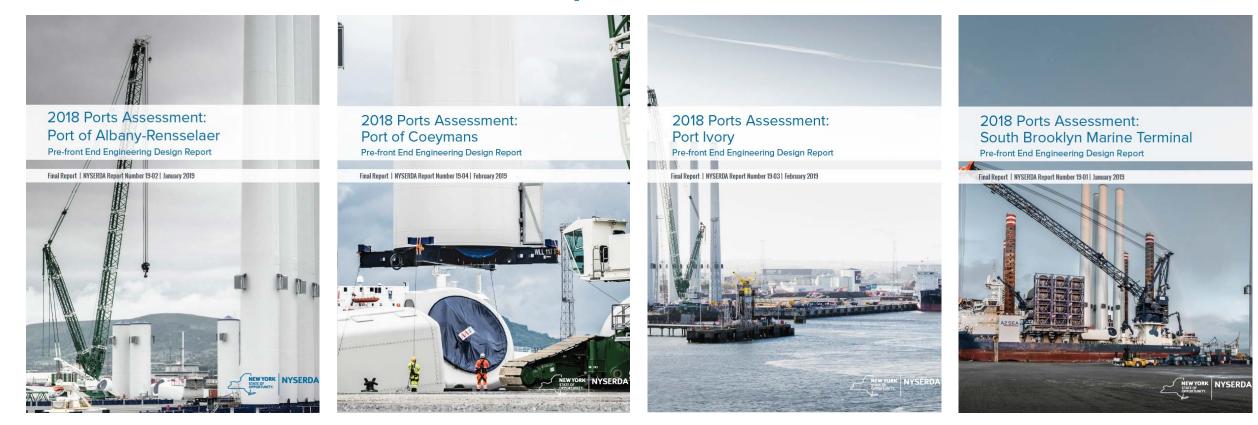
#### **General Studies**





#### **2018 Ports Assessment**

#### **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



January 2017

Metocean Plan for the New York Offshore Study Area

Report Number 16-35

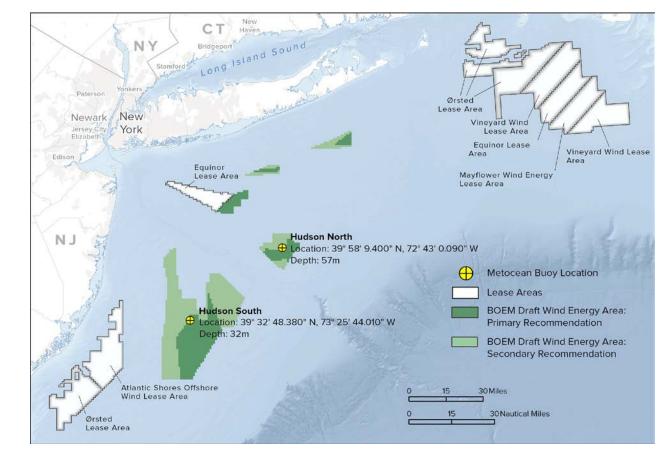


### **Environmental and Metocean Data**

- Location: New York Bight, BOEM draft Wind Energy Areas
- **Time period:** 2 year deployment; possible relocation
  - o "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

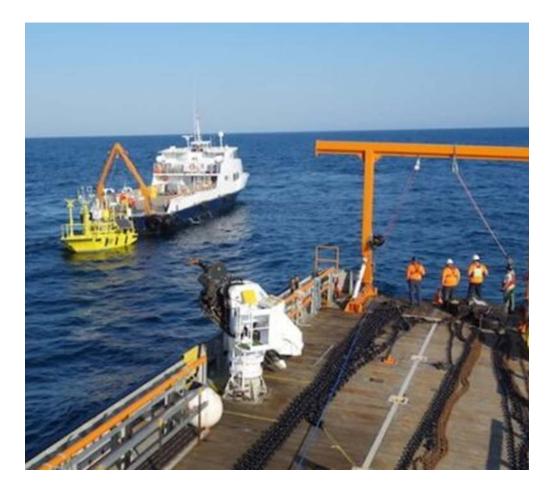




#### **Environmental and Metocean Data**

#### **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
    NEW YORK NYSERDA

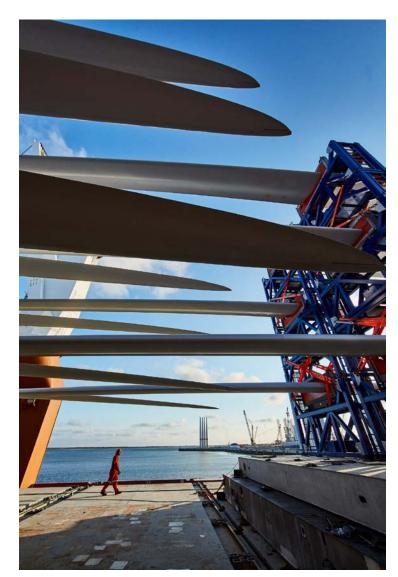
STATE OF OPPORTUNITY.

# 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 <u>nyserda.ny.gov/offshore-wind-2018-solicitation</u>
  - 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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NYSERDA