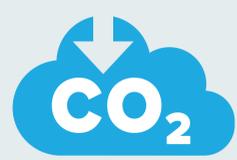


Offshore Wind in New York State

Coordination of Efforts

The New York State Energy Research and Development Authority (NYSERDA) is the lead agency coordinating offshore wind development opportunities in New York State in close partnership with New York State agencies including the Department of Public Service, the Department of Environmental Conservation, and the Department of State.

Collectively, these efforts aim to:



Reduce greenhouse gas emissions



Accelerate economic growth



Create clean, locally produced power

Clean Energy Standard

50% Electricity

in New York State will come from renewable energy sources by 2030



Bliss Wind Farm
Image courtesy of Ecology and Environment, Inc.



Future Offshore Wind Site
Image courtesy of Deepwater Wind



Long Island Solar Farm
Brookhaven National Laboratory



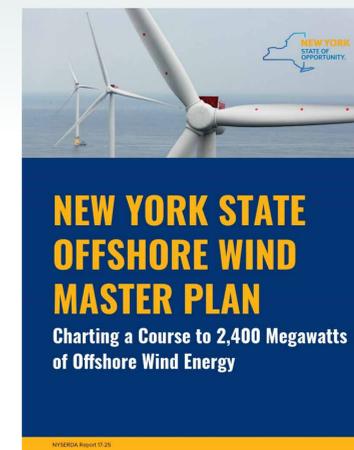
Robert Moses Niagara Hydroelectric Plant
NY Power Authority

New York State Offshore Wind Master Plan

In January of 2018, New York State published the New York State Offshore Wind Master Plan, a comprehensive state roadmap for advancing development of offshore wind in a cost-effective and responsible manner.

The New York State Offshore Wind Master Plan:

- 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



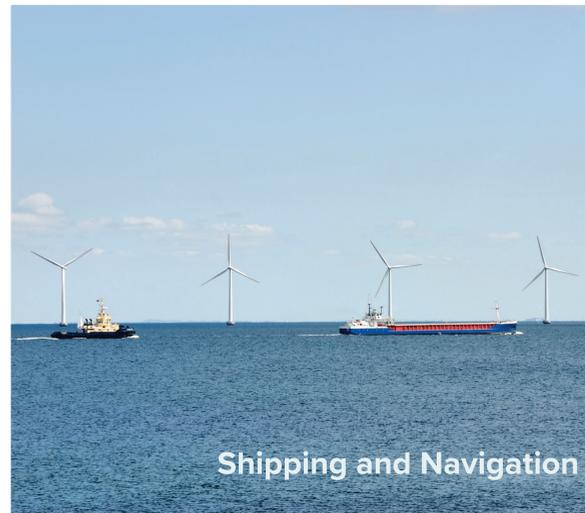
Studies and Surveys

As part of the New York Offshore Wind Master Plan process, NYSERDA conducted more than 20 studies and surveys. These include:



Environmental Studies

- Analysis of Multibeam Echo Sounder and Benthic Survey
- Birds and Bats
- Consideration of Potential Cumulative Effects
- Environmental Sensitivity Analysis
- Fish and Fisheries
- Marine Mammals and Sea Turtles
- Preliminary Offshore Wind Resource Assessment
- Sand and Gravel Resources



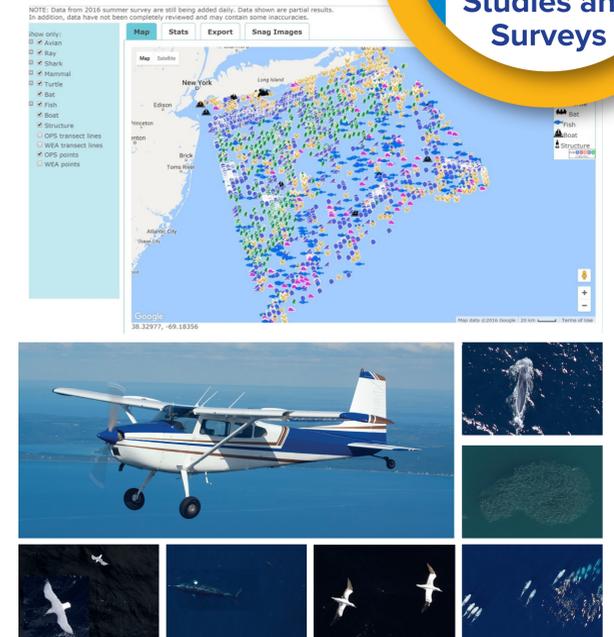
Social and Regulatory Studies

- Aviation and Radar Assets
- Cable Landfall Permitting
- Cultural Resources
- Health and Safety
- Marine Recreational Uses
- Shipping and Navigation
- Visibility Threshold



Infrastructure and Economic Studies

- Assessment of Ports and Infrastructure
- Cables, Pipelines, and Other Infrastructure
- Offshore Wind Injection Assessment
- U.S. Jones Act Compliant Offshore Wind Turbine Installation Vessel
- Workforce Opportunity of Offshore Wind in New York



Ongoing Studies

- Aerial Baseline Survey of Marine Wildlife
- Metocean Measurements in Support of Offshore Wind Energy
- Air Quality Assessment
- Supply Chain Considerations

Offshore Wind 101

1
offshore wind turbine (8 MW)
can power
4,000+
homes

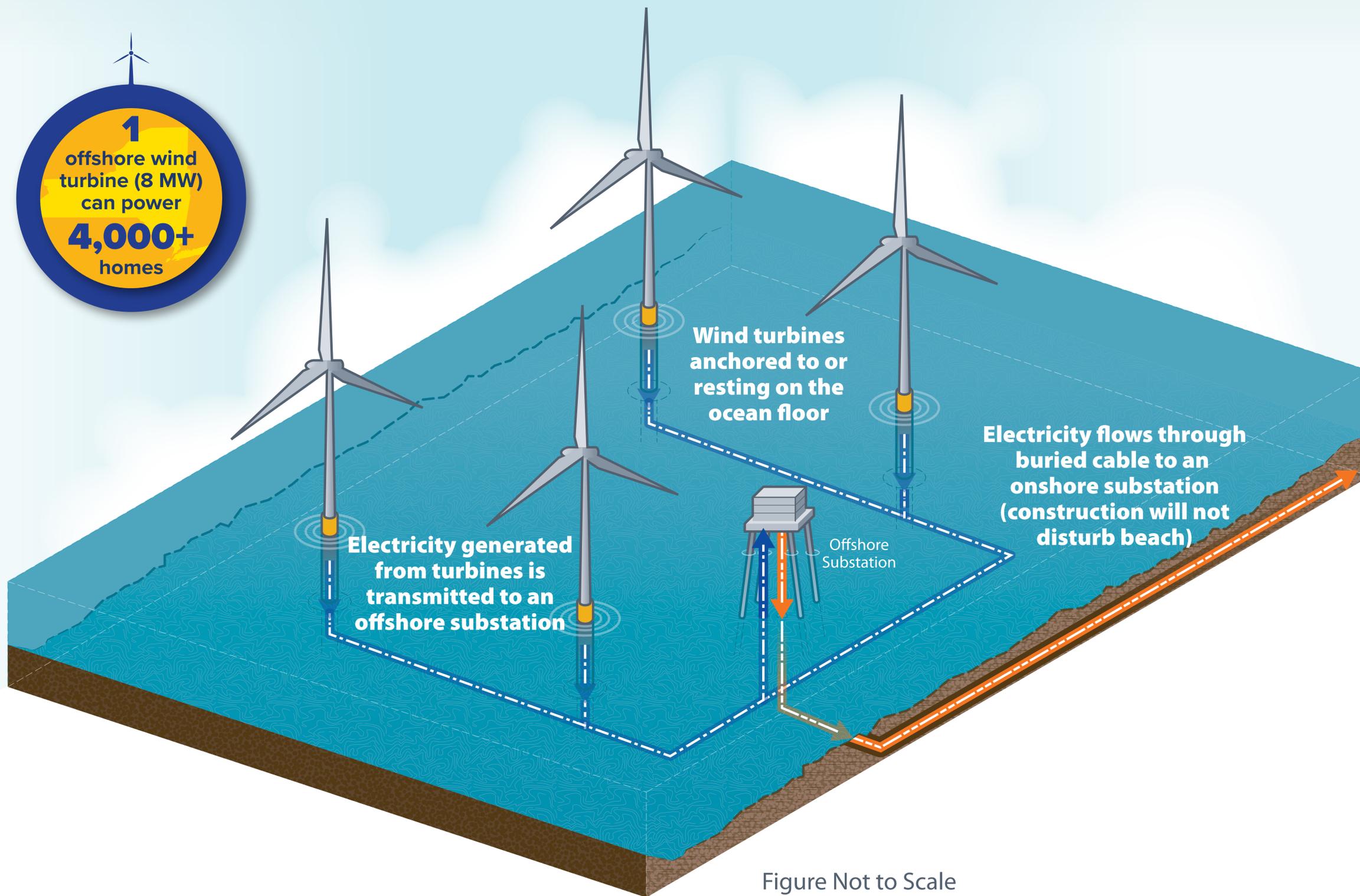


Figure Not to Scale

Siting Offshore Wind off New York's Atlantic Coast

The federal Department of Interior's Bureau of Ocean Energy Management (BOEM) regulates renewable offshore wind energy development in federal waters, which begin three nautical miles (approx. 3.5 miles) from the coast.

Area for Consideration

In October 2017, after several years of rigorous fieldwork, analysis, and stakeholder outreach, New York State identified an area it deemed most suitable for future offshore wind development. New York State recommended this area, called the Area for Consideration, to the federal BOEM.

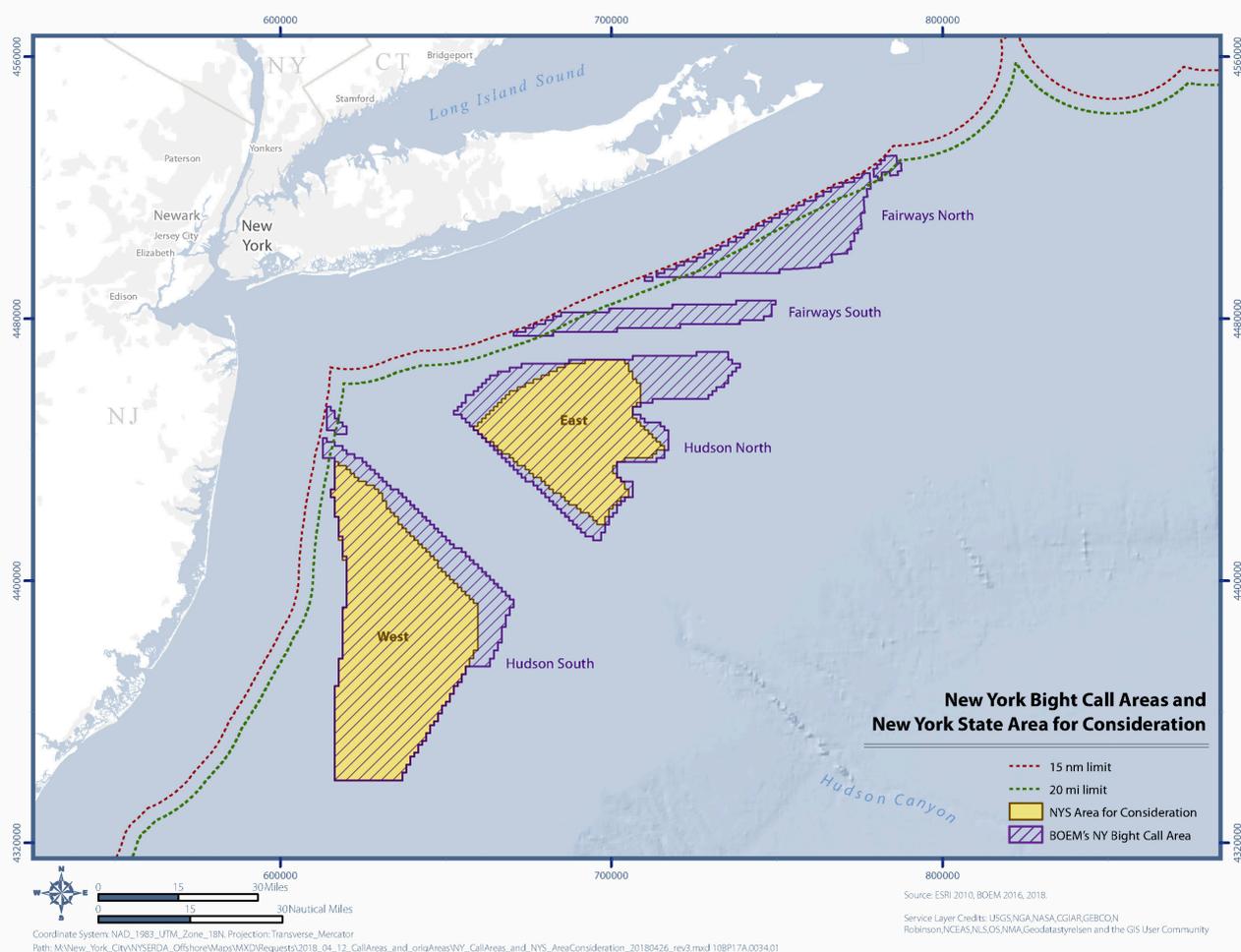
New York Bight Call Area

On April 11, 2018, BOEM published a Call for Information and Nominations, seeking formal public feedback on an area they have identified as the New York Bight Call Area. BOEM is seeking public comments until May 29, 2018, regarding how to refine the New York Bight Call Area and identify offshore wind energy lease areas within it.

New York State continues to believe that the Area for Consideration is best suited for offshore wind development because this area poses the least potential conflict with existing infrastructure, shipping, fishing interests, tourism, and wildlife while also presenting an economically viable area capable of helping the State achieve its 2,400 megawatt goal.

Submit Comments Online

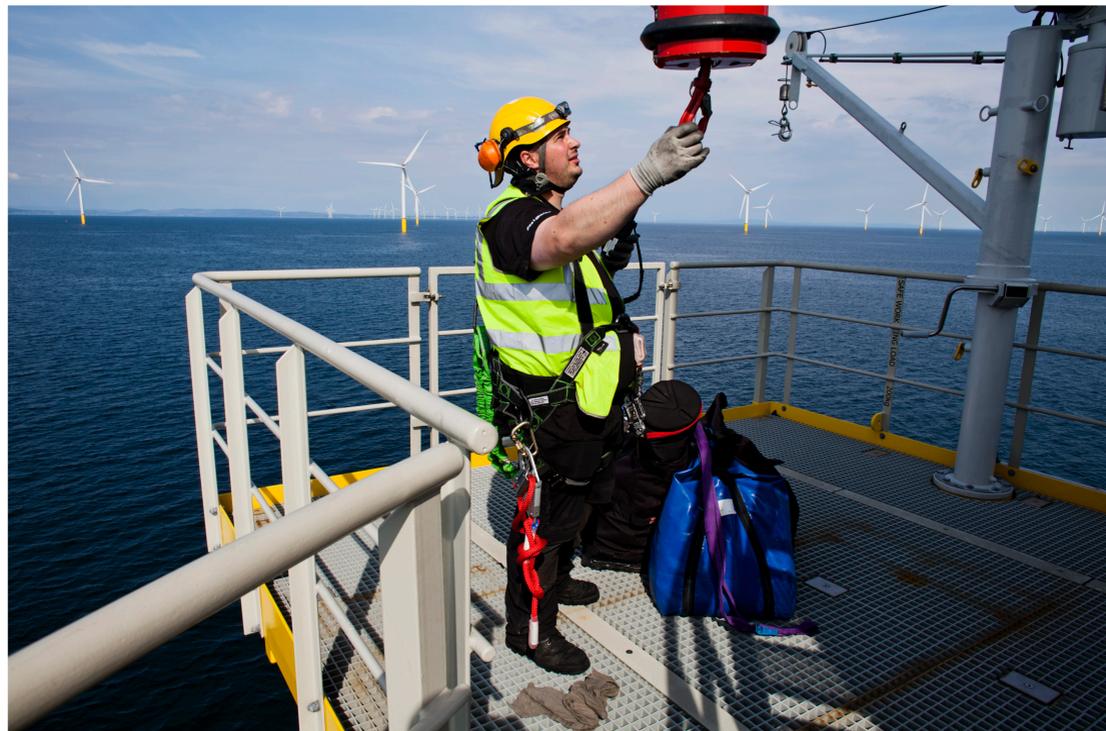
To submit comments online to BOEM, go to <https://www.boem.gov/New-York/>



Offshore Wind Jobs and Infrastructure

The Workforce Opportunity of Offshore Wind in New York

New York's economy and its communities could benefit from more than \$6 billion of investments and approximately 5,000 new jobs in manufacturing, installation, and operation of offshore wind facilities by the region deploying 8,000 MW by 2030, a target in line with existing state goals.



New York has several important attributes that will support its ability to become a national hub for offshore wind energy:

- An industry-leading procurement commitment of 2,400 MW of offshore wind energy
- Central location between Northeastern and mid-Atlantic states
- Existing port facilities ideally positioned to service wind farms across the region
- Core manufacturing competencies that are well-suited to the offshore industry
- A workforce equipped to support the offshore wind energy industry



2018 New York State Offshore Wind Activities

Solicitations

In the 2018 State of the State address, Governor Andrew Cuomo called for New York to issue two solicitations in 2018 and 2019 for a combined total of at least 800 MW of offshore wind power—enough clean, renewable energy to power up to 400,000 New York households.

Technical Working Groups

New York State is forming technical working groups to develop best practices for project development and ensure continued collaboration among those with technical knowledge, practical experience, and professional interest. The Technical Working Groups are centered around the following themes:

- Environmental
- Commercial and Recreational Fishing
- Maritime
- Jobs and Supply Chain

Workforce Development and Infrastructure Advancement

NYSERDA will invest \$15 million in clean energy workforce development and infrastructure advancement by:

- Training workers for jobs in offshore wind manufacturing, installation, and operation and maintenance
- Working with industry to attract private investment in port infrastructure and manufacturing



Commercial Fishing

Image courtesy of Deepwater Wind



Wind Farm Construction

Image courtesy of Deepwater Wind

Ongoing Studies

- Aerial Baseline Survey of Marine Wildlife
- Metocean Measurements in Support of Offshore Wind Energy
- Air Quality Assessment
- Supply Chain Considerations



Metocean Buoy