



**Mid-Atlantic Fishery Management Council**

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## MEMORANDUM

**Date:** May 28, 2021  
**To:** Council  
**From:** Julia Beaty, staff  
**Subject:** Offshore Wind Energy Development

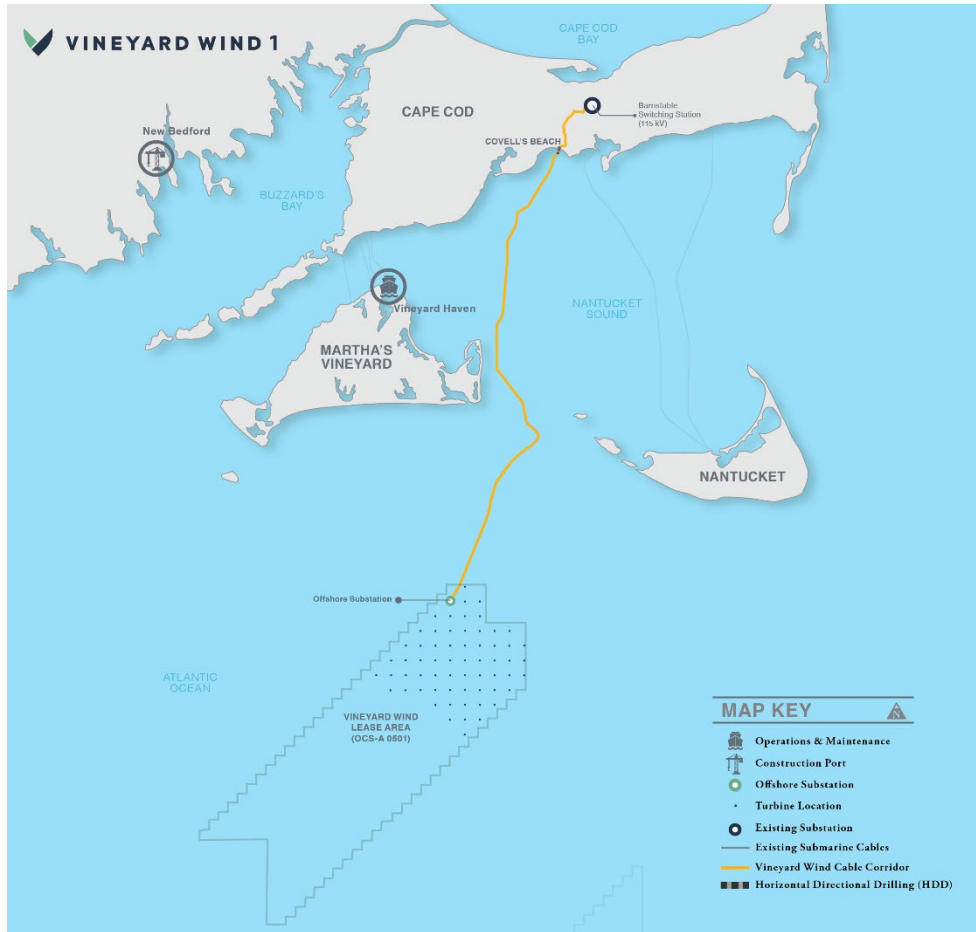
During their meeting on June 9, 2021, the Council will receive presentations on offshore wind energy development from the Bureau of Ocean Energy Management (BOEM), the NOAA Fisheries Greater Atlantic Regional Fisheries Office (GARFO), Vineyard Wind, and Ørsted.

BOEM will provide a status update on leasing in the Atlantic, including an update on the [proposed sale notice for the New York Bight](#). BOEM will also provide an update on environmental studies, including the [RODEO program](#), [other ongoing environmental studies](#), [completed studies](#), and the [Center for Marine Acoustics](#).

GARFO staff will provide an overview of NOAA Fisheries' roles and responsibilities in the environmental review of offshore wind projects. In addition, they will describe actions NOAA Fisheries has taken as a cooperating agency on wind projects to develop web-based tools, guidance documents, and templates and make them available to wind developers and BOEM to facilitate the assessment of impacts from offshore wind using the best available data and methods.

Vineyard Wind will present on the Vineyard Wind 1 project. Briefing materials provided by Vineyard Wind are behind this tab.

Ørsted will present on the South Fork and Ocean Wind projects. Briefing materials on both projects are included behind this tab.



### About Vineyard Wind 1

Vineyard Wind 1, an 800-megawatt offshore wind project located 15 miles south of Martha’s Vineyard, will generate clean, renewable, cost-effective power for over 400,000 homes and businesses across the state of Massachusetts while reducing carbon emissions by over 1.6 million tons per year, the equivalent of taking 325,000 cars off the road.

The project received federal approval in 2021. Onshore construction has begun, offshore construction begins in 2022, and the project will deliver power starting in 2023.

### Key Permitting Facts

- Offshore wind energy siting off Massachusetts and Rhode Island began in 2010 and included robust stakeholder involvement
- Vineyard Wind obtained lease area OCS-A-0501 in a competitive auction held by the Department of Interior in 2015
- Federal review summary:
- Vineyard Wind filed a Construction & Operations Plan for Vineyard Wind 1 in December 2017.
- The US Bureau of Ocean Energy Management (BOEM) issued a Draft Environmental Impact Statement (DEIS) in December 2018, a Supplemental Environmental Impact Statement (SEIS) in June 2020, and a Final Environmental Impact Statement (FEIS) in March 2021.

- BOEM, the National Marine Fisheries Service, and the US Army Corps of Engineers issued a joint Record of Decision (ROD) authorizing the project on May 10, 2021
- Rhode Island's Coastal Resources Management Council (CRMC) conducted a federal consistency review per its Ocean Special Area Management Plan (SAMP) from 2018-2019. Similarly, Massachusetts conducted a federal consistency review per its management policies from 2018-2020. These reviews included input from numerous fisheries stakeholders.
- Over 30,000 public comments submitted in 2019-2020 overwhelmingly in support of Vineyard Wind 1.
- State, regional, and local review was conducted from 2018-2020, with all final permits issued.

#### **Project features:**

- The ROD authorizes the construction of up to 84 turbine locations spaced 1 nautical apart on a North-South and East West direction. However, Vineyard Wind anticipates using 62 turbines at 13 megawatts each.
- Two export cables will be installed within a defined corridor to transmit power to shore.
- All cables (offshore export cables and inter-array cables) will be buried at a target depth of 5-8 feet.
- One offshore Electrical Service Platform to collect power offshore prior to transmission.
- One onshore substation in Barnstable, Massachusetts (state review: completed) to transform power for connection to the New England electric grid.
- Onshore construction beginning in 2021, offshore construction starting in 2022, and delivering power starting in 2023.
- Construction staging based out of the Port of New Bedford.
- Long term operations and maintenance based on the island of Martha's Vineyard.

#### **Vineyard Wind South**

Vineyard Wind is developing the remaining area of its 0501 lease in two phases. Phase 1, also known as Park City Wind, will deliver 804 megawatts of power to the ISO New England electric grid to meet Vineyard Wind's obligations under long-term contracts with Connecticut electric distribution companies in accordance with Connecticut's renewable energy requirements. Phase 2 will deliver 1,200 to 1,500 MWs of power to one or more Northeastern states and/or to other offtake users to assist them in meeting renewable energy targets.

##### **About Park City Wind**

Vineyard Wind's Park City Wind project was selected by the state of Connecticut in late-2019. Park City Wind, named after the City of Bridgeport. The project is similar in scope to Vineyard Wind 1 and includes two offshore export cables within the same corridor and an onshore grid interconnection in Barnstable, Massachusetts. Federal and state review of Park City Wind began in 2020 and is currently ongoing.

##### **About Phase 2**

Phase 2, when constructed, will be located south of Park City Wind and occupy the remainder of the lease area. Phase 2 includes two offshore export cables along the same corridor as Vineyard

Wind 1 and Park City Wind with an onshore grid interconnection in Barnstable, Massachusetts. Federal review of Phase 2 began in 2020. State review will be initiated at a future date.

### **Outreach**

- 2 fisheries liaisons dedicated to work with an expanding network of fisheries representatives, fishing organizations, and individual fishermen to communicate throughout southeastern New England and New York.
- Fisheries Representatives in Massachusetts, Rhode Island, and Connecticut
- Participation in RODA's Joint Industry Task Force
- Participation in the Massachusetts Fisheries Working Group, Rhode Island Fishery Advisory Board (FAB), the New York Fisheries Technical Working Group, and regional meetings such as the New England Fisheries Management Council
- Fisheries email / text network to update fishermen on offshore activities, fisheries surveys and other relevant information for fishermen

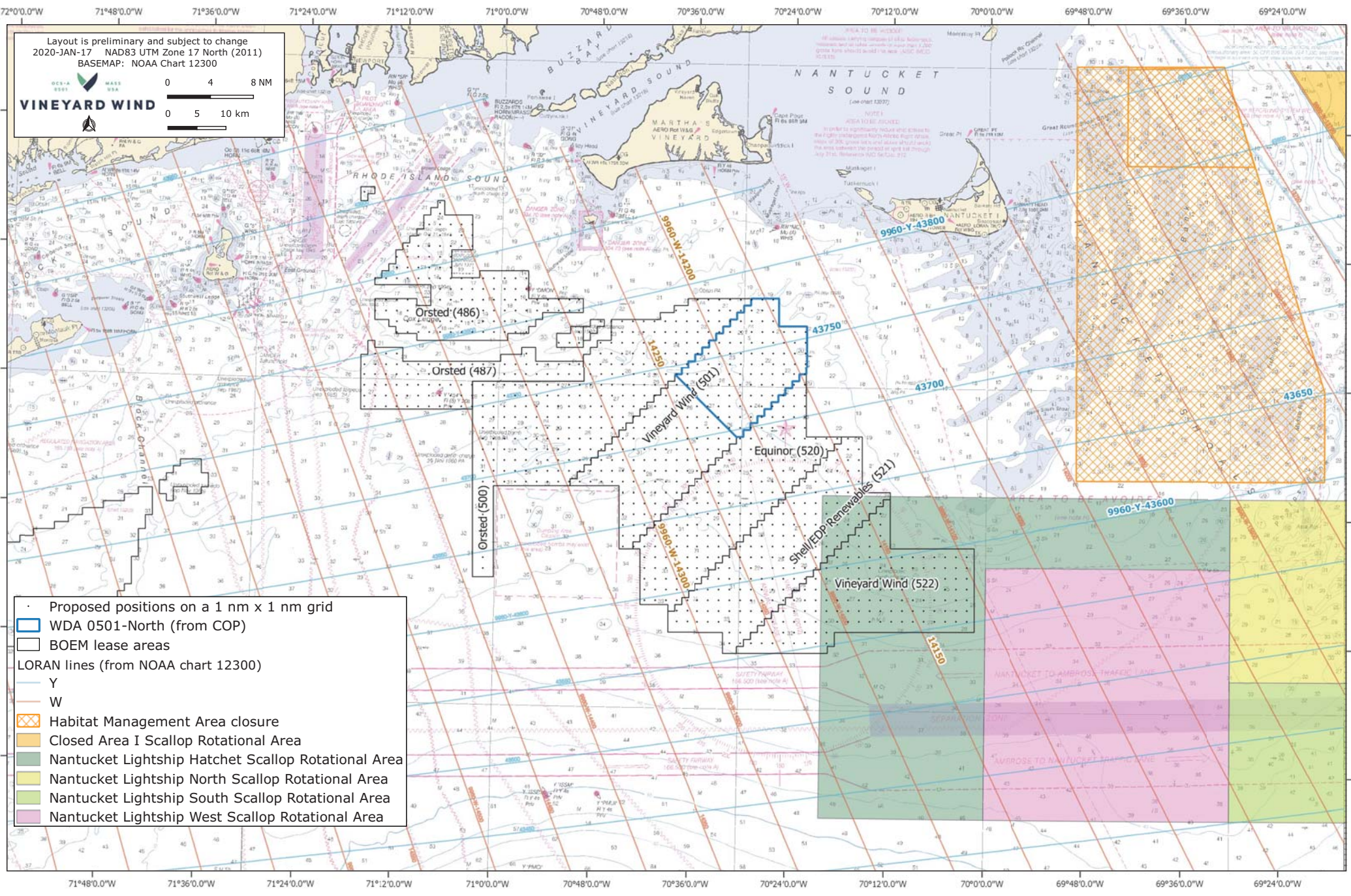
### **Fisheries Science and Research**

- Long term fisheries studies designed with input from local commercial fishermen and fisheries scientists
- \$2 million spent annually on research of commercially important species, data to be collected pre/during/post-construction and published on Vineyard Wind's website <https://www.vineyardwind.com/fisheries-science>
- Pre-construction fisheries science surveys begun in 2018 conducted by a leading university aboard local commercial fishing vessels to monitor species
- All fisheries research and data made publicly available
- Support of the Responsible Offshore Science Alliance
- Member of International Council for the Exploration of the Sea (ICES) working group on Offshore Wind Development and Fisheries
- <https://www.ices.dk/community/groups/Pages/WGOWDF.aspx>

### **Fisheries Mitigation Funds for Vineyard Wind 1**

- Massachusetts: \$19 million in direct compensation fund, and \$1.75 million for Fisheries Innovation Fund
- Rhode Island: \$4.2 million in direct compensation fund, and \$12.5 million in Fishermen's Future Viability Trust
- \$3.3 million in direct compensation fund for NY, CT, NJ





# South Fork Wind

## Project Overview

South Fork Wind will be New York's first offshore wind farm – a centerpiece of New York's ambitious offshore wind energy goals.

Its 15 turbines will produce enough clean, renewable energy every year to power 70,000 homes.

From stronger coastal storms to sea level rise, the harmful effects of climate change are a stark reality on Long Island and South Fork Wind will make a real difference in combatting climate change and meeting East Hampton's clean energy goals.

## Benefits to Long Island

We are fully committed to supporting Governor Cuomo's vision of not only a New York powered with 100 percent renewable energy but creating an enduring offshore wind supply chain centered around New York communities and workers.

- South Fork Wind will help the Town of East Hampton meet its 100 percent renewable energy goals.
- The wind farm will displace millions of tons of carbon emissions, the equivalent of taking 60,000 cars off the road.
- We have also proposed locating a facility in Montauk to support the long-term operations and maintenance of South Fork Wind, where we'll base crew transfer vessels that will transport maintenance team members to and from the wind farm.



### → WHO

50/50 partnership between Ørsted and Eversource

### → WHAT

132 MW offshore wind farm

### → WHEN

Onshore and offshore construction is planned to begin in 2022 and expected to be fully operational in 2023

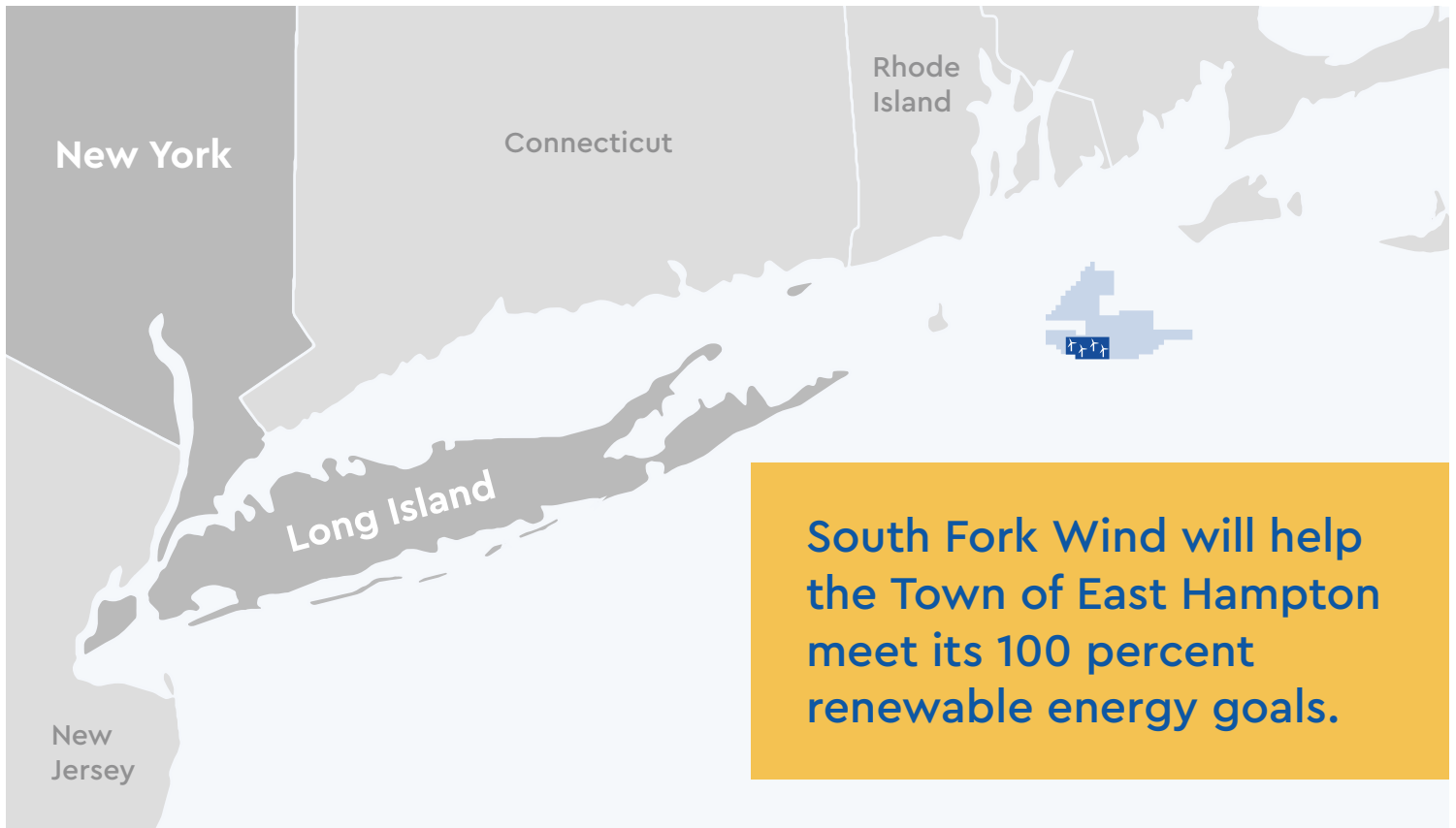
### → WHERE

35 miles east of Montauk Point, out of sight from Long Island beaches

### → WHY

Helping the Town of East Hampton meet its 100 percent renewable energy goals, and New York realize its vision of becoming a leader in clean energy





## About Ørsted and Eversource

South Fork Wind brings unparalleled experience in developing offshore wind to New Yorkers, as a 50/50 partnership between Ørsted, the global leader in offshore wind and a global leader in climate action, and Eversource, New England's largest energy company and premier electric transmission builder. Ørsted – which was recently ranked the most sustainable company in the world and will become the world's first major energy company to become carbon-neutral by 2025 – envisions a world run entirely on green energy while Eversource is one of the nation's most responsible companies, as ranked by Newsweek, Forbes and JUST Capital.

## CONTACT US

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### Website

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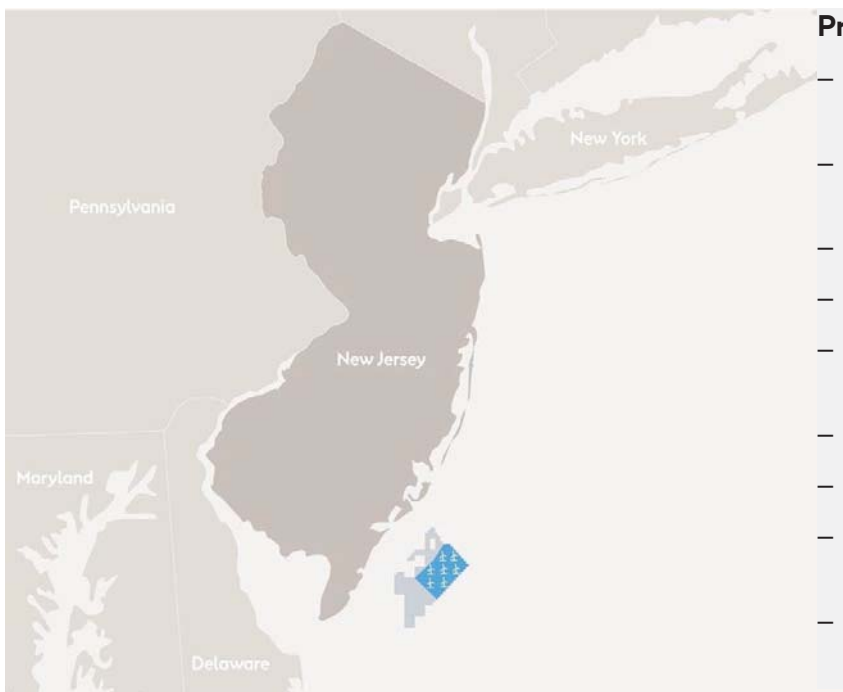
### Twitter

[@SouthForkWind](https://twitter.com/SouthForkWind)

# Ocean Wind Project Overview

Ocean Wind  
An Ørsted & PSEG project

## Project Overview - Ocean Wind

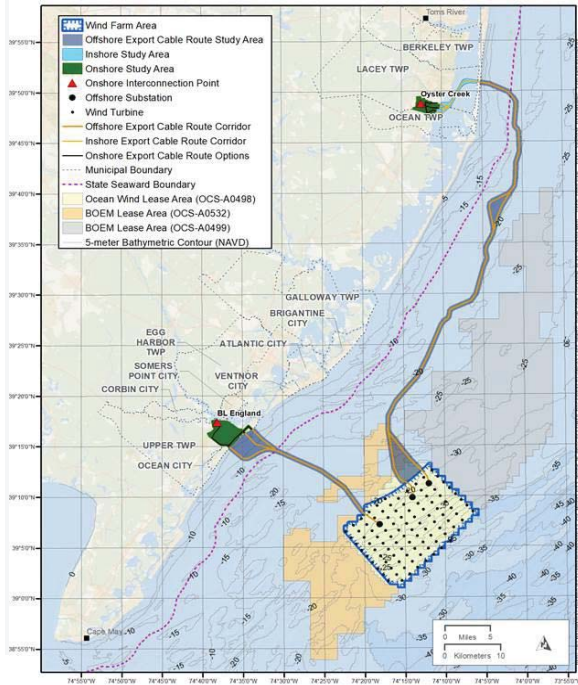


### Project overview

- Wind Farm is located 15-27 miles off the coast of Southern New Jersey.
- 1,100 MW – one of the largest planned offshore wind farms in the U.S. to date.
- Enough power for about 500,000 homes
- Up to 98 turbines to be installed.
- Commercial operations expected by the end of 2024.
- Ocean Wind is a 75/25 Joint Venture with PSEG
- Notice of Intent (NOI) issued March 30, 2021
- Draft Environmental Impact Statement scheduled May 2022
- Final Environmental Impact Statement scheduled February 2023



# Project Route Overview



## Offshore Project Description:

- Up to 98 turbines and three offshore substations located in federal waters
- Up to three offshore export cables buried under the seabed floor within two cable corridors
- Northern cables cross Island Beach State Park and will be installed underground using trenchless technology to minimize disturbance on the barrier island

## Onshore Project Description:

- Project requires two points of interconnection .
  - Oyster Creek (Lacey Township) ~636 MW.
  - BL England (Upper Township) ~450 MW.
- Onshore cable routes were developed to utilize existing, disturbed rights of way. Majority of cables will be buried.
- Routes developed in discussion with local township officials.
- Several indicative routes were developed and will continue to be refined.