



# VINEYARD WIND

## 2023 Offshore Construction Update



### 2023 CABLE INSTALLATION UPDATE

In the summer of 2023, the installation of the Vineyard Wind 1 offshore export cables were completed. These cables are 35 miles in length and travel from Covell's Beach in Barnstable to the offshore substation in Lease Area OCS-A 0501.

The Vineyard Wind 1 inter-array cables have been partially installed with two strings (18 cables) completed to date. Inter-array cable installation will continue in summer 2024.



PHOTO CREDIT: UNIVERSITY OF MASSACHUSETTS

### SUCCESSFUL INSTALLATION OF FIRST TURBINE FOR VINEYARD WIND 1

In October, Vineyard Wind announced the successful installation of the first GE Haliade-X wind turbine for the Vineyard Wind 1 project, the nation's first commercial-scale offshore wind project. The completed turbine is comprised of one tower, three blades, and one nacelle. The fully assembled 13-megawatt machine represents the largest installed turbine in the Western Hemisphere and can power more than 6,000 homes and businesses in Massachusetts. The turbines being installed for Vineyard Wind 1 are spaced 1 nautical mile apart, a distance that is greater than the spacing used in any other operating wind project globally.

### VINEYARD WIND 1 DELIVERS POWER TO MASSACHUSETTS GRID

As part of the initial commissioning process, at 11:52 PM on Tuesday, January 2, 2024, the first turbine delivered approximately five megawatts of power to the grid. Additional testing is planned for both on and offshore in the coming weeks. Five turbines are expected to be operating at full capacity early in 2024.

(Source: [VineyardWind.com](https://vineyardwind.com))



### 2023 FISHERIES SCIENCE UPDATE

In 2023, Vineyard Wind completed a number of scientific fisheries surveys during construction. The surveys were conducted on local fishing vessels by the University of Massachusetts, School of Marine Science & Technology.

Vineyard Wind completed two drop camera surveys (May and September), three trawl surveys (May, August, and November), a ventless trap and larval survey (May through October), and a Highly Migratory Species survey (May through September). Three years of pre-construction surveys have been completed with an additional year of surveys during construction. Post-construction surveys are planned to begin in 2025 and continue for three years to complete the Before-After-Control-Impact (BACI) analysis.



ELECTRONIC SERVICE PLATFORM  
(OFFSHORE SUBSTATION)

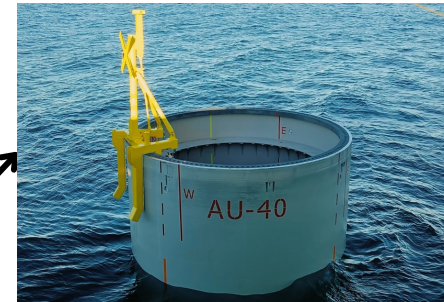
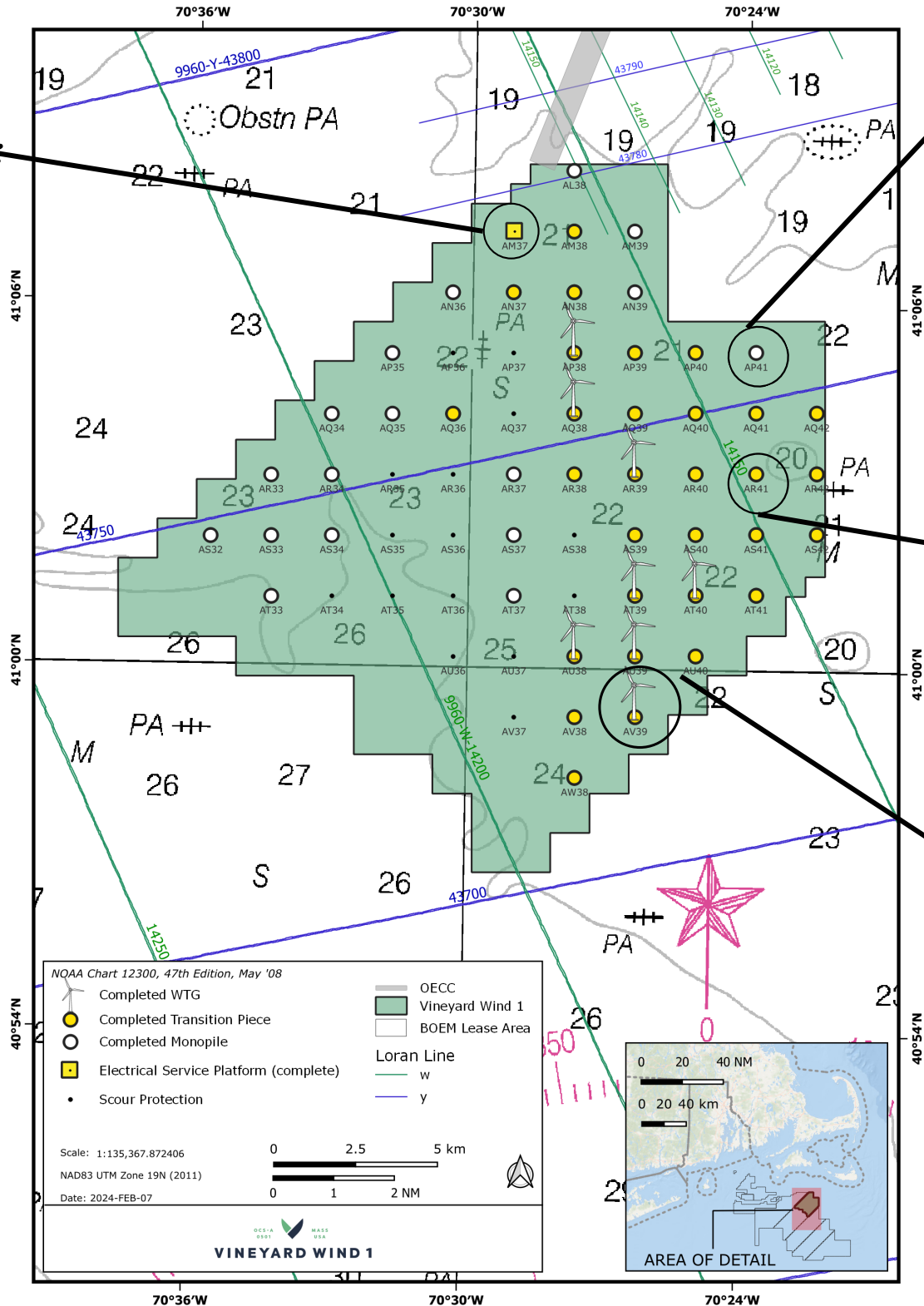
## 2023 CONSTRUCTION UPDATE

As of January 24, 2024:

- 47 Monopiles installed with 15 remaining for installation in 2024
- 8 completed wind turbines installed
- 22 monopiles with a transition piece
- 17 monopiles

Over 40 local fishing vessels have worked on the Vineyard Wind 1 project thus far. Wind turbine installation activities will continue through the winter with monopile installation beginning again in spring 2024.

US Coast Guard approved lighting pieces have been attached to each of the installed monopiles in Lease Area OCS-A 0501 to increase their visibility. Safety vessels will be monitoring the Wind Development Area 24/7, standing by on VHF channel 16.



MONOPILE WITH USCG LIGHTING ATTACHMENT



TRANSITION PIECE



WIND TURBINE GENERATOR