



Vineyard Wind South Offshore Wind Project

Project Construction

Installation of Foundations

- Delivery of monopile or piled jacket foundations to the site by vessel.
- Foundation piles installed using a pile driving hammer, vibratory hammer, and/or drilling techniques.
- Grouting, bolting, or slip-jointing for monopiles with a separate transition piece; jackets are grouted to the pile sleeves.
- Addition of scour protection by side stone dumping, fall pipe, or crane.

Installation of Wind Turbines

- Turbine pre-assembly and transport of turbine components to the site by vessel.
- At the site, the installation vessel jacks up and connects to a preinstalled foundation via a gangway.
- Installation of the turbine using a crane to lift the tower, nacelle, and turbine blades. Components are fastened together as they are lifted into place.

Offshore Substations

- Topside structure is transported to the site by vessel.
- An installation vessel lifts the topside structure onto the pre-installed foundation substructure.

Cable Laying

- The target burial depth of the cable is 5 to 8 feet.
- Cables installed using a tool towed behind the installation vessel to simultaneously open the seabed and lay the cable, or by laying the cable and following with a tool to imbed the cable.
- Installation methods for these options include jet plow, jet trench, mechanical plow, mechanical trench, or other specialty techniques.
- Cable protection may include rock placement, rock bags, mattresses, and/or half-shell pipes (or similar).



Monopile Installation



Installed Transition Pieces



WTG Installation Vessel