



Sunrise Wind Offshore Wind Farm

Project Construction

Installation of Foundations

- Delivery of monopile foundations to the site by vessel.
- Foundation piles installed using impact pile driving and/or vibratory pile driving.
- Grouting or bolting for monopiles with a separate transition piece.
- Several types of scour protection may be considered, including rock placement, mattress protection, sandbags, and stone bags.

Installation of Wind Turbine Generators

- Turbine pre-assembly and transport of turbine components to the site by vessel.
- The installation vessel will install the tower either as a single lift if pre-assembled, or in multiple lifts for separate sections. The tower is then bolted to the foundation.
- Installation vessel then installs nacelle on top of the tower and secures it with bolts.
- Blades are installed either as a pre-assembled full rotor or in single lifts.

Offshore Converter Station

- 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 3 to 7 feet.
- The Inter-Array cable may be laid on the seafloor and then trenched post-lay or, alternatively, cable laying and burial may occur simultaneously using a lay and bury tool. Alternatively, a trench may be pre-cut prior to cable installation.
- The Export Cable bundle will be laid on the seafloor and then trenched post-lay. Alternatively, a trench may be pre-cut prior to cable installation.
- Cable protection may include rock placement, mattresses, frond mattresses, rock bags, and/or seabed spacers.



Wind Turbine Installation



Installation of Offshore Station



Cable Laying