Preparatory works
In August 2018 we conducted offshore geotechnical site investigations within the wind farm sites and along the planned export cable corridor to develop an understanding of the ground conditions. Further surveys are planned for 2019.

Export Cable installation
To get the power from the wind farms to shore, approximately 191km and 172km of buried subsea cables will be installed between each site and a landfall point near Ulrome. A specialist vessel similar to the one pictured below will be commissioned by Project to install the cables.

Inter-array cables
In order to be able to export the energy they produce, the turbines require to be connected to an offshore platform through submarine interconnecting cables. This connection network will comprise of up to 300km of cables per wind farm.

Safeguarding marine mammals
Harbour porpoise are the most frequently occurring species of marine mammal in the wind farm areas. The risk of causing injury to any marine mammal as a result of underwater noise generated from piling will be minimised through the use of a Marine Mammal Mitigation Protocol. This will be developed in consultation with key stakeholders.

Beginning construction offshore
Building an offshore wind farm is a challenging and complex task and the offshore construction phase requires specialist vessels and expert crews to safely coordinate and manage work while offshore. It is expected that offshore construction works will commence in 2021/2020.

Turbine installation
The installation process will involve the turbine components being loaded on to a specialist heavy lifting vessel for transportation. Once at the site the vessel will then install the turbine components on to a foundation substructure, beginning with the tower section. The nacelle is then attached to the tower and then the blades are installed.

For more information, visit the project website: www.doggerbank.com