



▶ Dudgeon substation site

Constructing the Dudgeon electricity substation at Necton in Norfolk

The Dudgeon Offshore Wind Farm will be built 20 miles off the coast of Cromer in North Norfolk, and it will be fully installed by late 2017. In order for the electricity generated by this offshore wind farm to be transmitted to National Grid electricity distribution network, a new substation will be built adjacent to the A47 highway outside the village of Necton in Norfolk.

The planning consent for the construction of the substation and its associated infrastructure was granted by Breckland District Council in October 2012. In order to allow for an optimised design with a 21% reduced footprint, the consent was varied in May 2014. The site preparation works took place during the Summer and Autumn months of 2014, and work will start to construct the substation during March 2015.

The 67 offshore wind turbine generators have a total capacity of 402 MW and will produce sufficient electricity to power over 410,000 UK homes. The electricity will be transmitted to shore at Weybourne Hope in North Norfolk by cables laid on the seabed, and then by onshore underground cables to the Necton site.

Two separate substations will be constructed on the site; the Dudgeon Offshore Wind Farm substation will be built and equipped



▶ National Grid substation site



▶ Substation site preparation works in 2014

by Siemens Transmission and Distribution (Siemens), while National Grid will construct and commission the adjacent substation.

The construction works and testing and commissioning will be completed by November 2016, and the first electricity from the first operational wind turbine is expected to be delivered from the wind farm to the National Grid during the first quarter of 2017 ■

