

TenneT awards first contract for mega “power outlets” for Dutch offshore grid to HSM Offshore

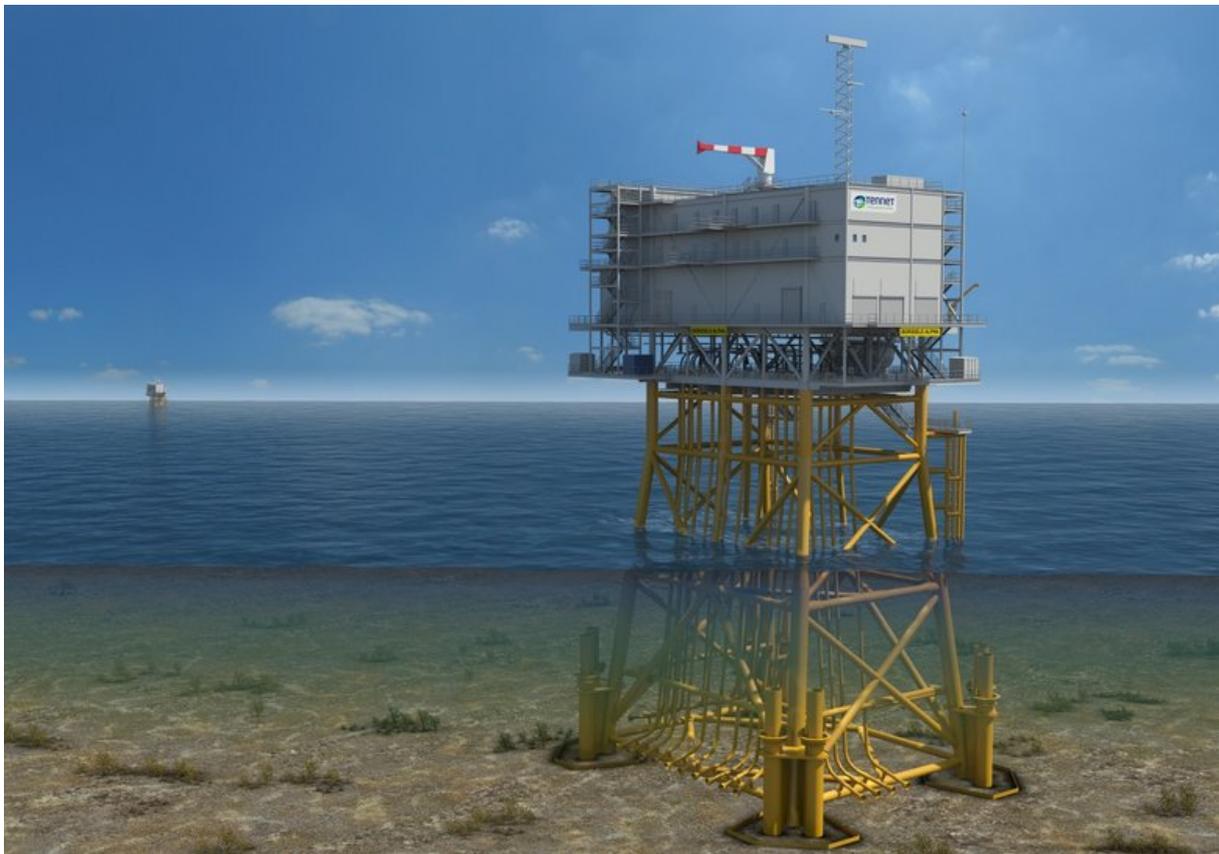
HSM Offshore to construct offshore transformer station for Borssele Alpha project (700 MW) and optionally also for Borssele Beta project (700 MW).

TenneT TSO B.V. has awarded a contract to HSM Offshore (Schiedam, the Netherlands) for the construction of offshore transformer stations (platforms) required to link up the wind farms to be built offshore at Borssele in the south-west of the Netherlands. The contract concerns the offshore platform for the Borssele Alpha wind farm zone. HSM Offshore is also the intended partner for TenneT’s next offshore wind energy project, Borssele Beta.

The Borssele Alpha project, to be followed by the Borssele Beta project, are the first large-scale grid connections to be constructed under the National Energy Agreement for offshore wind farms in the Netherlands.

Platforms

HSM Offshore will take on the engineering, construction, transport, installation, connection and testing of the offshore transformer station.



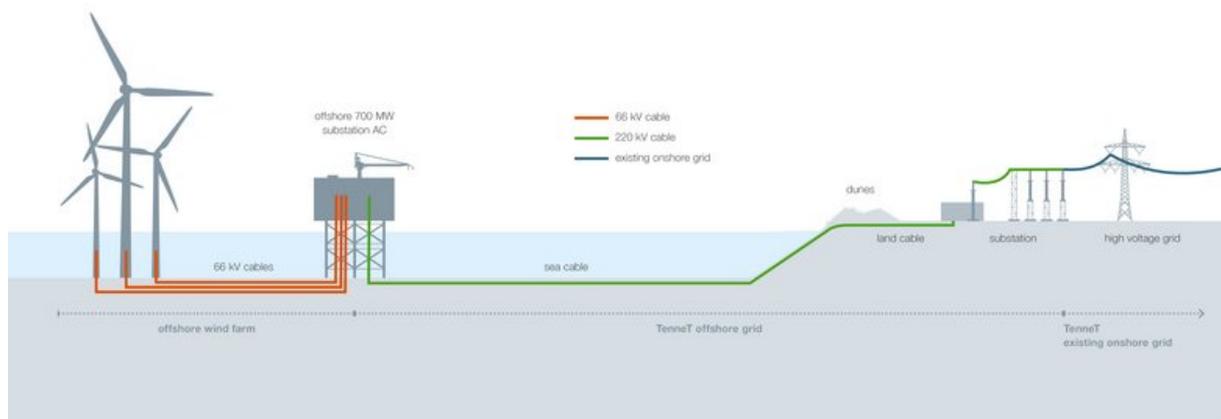
The Borssele Alpha platform will have a connection capacity of 700 MW for offshore wind farms and is scheduled for completion in 2019. The Borssele Beta platform is expected to be completed by 2020. TenneT has been officially designated as the offshore grid operator in the Netherlands, and will contribute to fulfilment of the National Energy Agreement by developing offshore grid connections with a total capacity of at least 3,500 MW during the period until 2023. These connections will be constructed in accordance with a standardized concept and will have a capacity of 700 MW each. The tender procedure for the subsea cables and platforms for the Hollandse Kust Zuid project will start in the second quarter of 2017.

Wind farm zone	Operational in	Capacity (MW)	Connection length in km
Borssele Alpha	2019	700	Approx. 61
Borssele Beta	2020	700	Approx. 68
Hollandse Kust Zuid Alpha	2021	700	Approx. 48
Hollandse Kust Zuid Beta	2022	700	Approx. 40
Hollanse Kust Noord	2023	700	Under development

Subsea cables

The total length of the route section from the onshore station at Borssele to the Borssele Alpha offshore transformer station (the “platform”) is approx. 61 kilometres. The offshore grid connection consists of two 220 kV subsea cables with a capacity of 350 MW each. In a world first, the cables’ so-called “dynamic capacity” will be utilized. This means that a single cable can be temporarily subjected to a load of up to 380 MW.

The cables will be installed in the seabed of the Western Scheldt estuary and will run to the onshore high-voltage station at Borssele. The cables will be installed at a depth of 1 metre in the North Sea, and at a depth of 3 metres along the entire route in the Western Scheldt estuary, up to the point where they come onshore at Borssele. In most locations the cables will be installed at even greater depths to cope with possible seabed movements. The contract for the supply and installation of the land and subsea cables for Borssele Alpha and optionally for Borssele Beta was awarded to a consortium made up of NKT cables GmbH & Co. KG and VBMS B.V. (Boskalis).



Source: www.tennet.eu / press release 10 February 2017.