

Triton Knoll Offshore Windfarm

Driving precast concrete piles for a new on-shore substation.



AARSLEFF

Aarsleff Ground Engineering has recently completed piling for a new substation as part of the Triton Knoll Offshore windfarm project in Bicker Fen, Boston.

The new substation, which is connected to the windfarm via 40 miles of underground cable to the Lincolnshire coast, will convert the generated electricity from the windfarm for the National Grid. Once completed, the windfarm will be capable of providing clean and sustainable energy to over 800,000 UK homes.

Electricity generated by offshore wind turbines in the North Sea will be collected by substation platforms at sea and transformed to a suitable voltage before it is sent along cables on the seabed to land north of Anderby Creek.

Aarsleff were awarded the piling contract by Siemens, who began works in September 2018 to create a new 3.8km access road to the substation site. Aarsleff used two of its Junttan PM20 piling rigs to drive over 1500 No. 200mm and 250mm square precast concrete piles across the site for various buildings and equipment across the site.

The precast concrete piles were supplied in lengths from 5m to 14m lengths, and were manufactured by Aarsleff's sister company; Centrum Pile Ltd.

Managing the piling operations, Aarsleff's senior contracts engineer, Simon Cottingham said,

"It has been a pleasure to work with Siemens on a sustainable energy project such as this one. We completed a full set of successful dynamic and static load testing on the piles and our overall piling operations ran smoothly throughout our time on site."



Scope of Works

Over 1500 No. 200mm & 250mm square precast concrete piles

Client

Triton Knoll

Contractor

Siemens

Equipment

Junttan PM20 HLC Rig

Junttan PM20L Rig

Construction period

1st April – 17th May 2019

Aarsleff Ground Engineering Ltd, is the UK trading arm of Danish contracting giant Per Aarsleff A/S, and is one of the UK's leading piling and geotechnical design and installation specialist contractors; actively promoting early consultation to ensure each scheme can be Value Engineered to give clients the best service, quality design, safety and value. Aarsleff's strategy and philosophy of investment into the future has resulted in its wholly owned subsidiary Centrum Pile Ltd having the most advanced precast pile production facilities in the UK, producing segmentally jointed precast concrete piles to BS En12794 to Class 1A.

Contact

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