

Triton Knoll Offshore Windfarm

CFA and Driven Piling for a new on-shore substation and gas main bridge

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.

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. Subsequently, Siemens awarded Aarsleff the piling works for a gas main bridge that crossed the 3.8km access road.

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

Aarsleff also installed 8no. 600mm diameter CFA piles of 15m lengths, which were located either side of the gas main. CFA piles were specified due to minimal vibrations it creates as the piles are being installed. Siemens then laid a concrete slab to create a bridge over the gas main and prevent any future damage from service vehicles and machinery driving down the access road.

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. This project was also the debut of our new Soilmec SF50 piling rig which allows us to install CFA piles up to 19m lengths."



Data

- Over 1500 No. 200mm & 250mm square precast concrete piles
- 8no. 600mm diameter piles, 15m lengths

Client

Triton Knoll

Contractor

Siemens

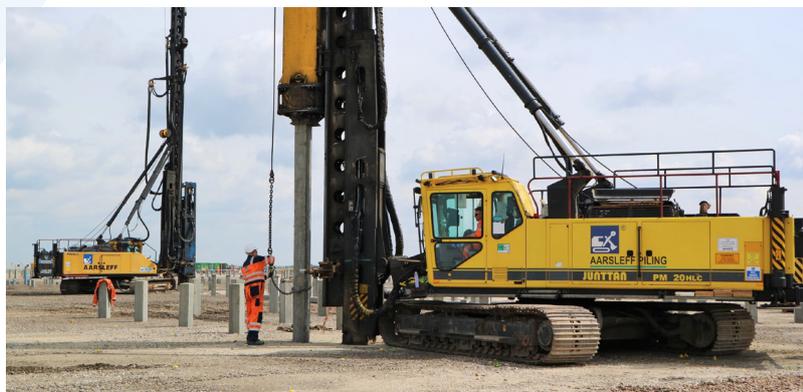
Construction period

April - August 2019



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