

Triton Knoll Offshore Windfarm

Installing CFA piles for a gas main bridge.



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.

Aarsleff Ground Engineering previously installed over 1500 No. 200mm and 250mm square precast concrete piles in April for the foundations of the substation buildings and equipment. Subsequently, Siemens awarded Aarsleff the piling works for a gas main bridge that crossed the 3.8km access road.

The project saw Aarsleff install 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.

Aarsleff's senior contracts engineer Simon Cottingham, who managed both piling projects said,

"It has been a pleasure to work with Siemens again at the Triton Knoll Substation. This project was also the debut of our new Soilmec SF50 piling rig which allows us to install CFA piles up to 19m lengths."



Scope of Works

8no. 600mm diameter piles, 15m lengths

Client

Triton Knoll

Contractor

Siemens

Equipment

Soilmec SF50

Construction period

12th August – 20th August 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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