

Kessingland Windfarm, Norfolk

Installing raked and verticle precast piles for a wind farm.



AARSLEFF

Triodos Renewables awarded Carter Civils, under competitive tender, the contract for the 4MW Kessingland windfarm in December 2010. Aarsleff supplied the driven pile solution for the foundation to support the two 2MW MM92 REpower Wind Energy Convertors was designed and constructed as well as access tracks modified to sustain the wide and load intensive deliveries of the WEC's.

Aarsleff installed a total of 60no, 400mm square reinforced, precast concrete piles to average lengths of 13m for the turbine foundations, to achieve the performance criteria required HCE Structural Engineers specified to a 1 in 6 raking design which Aarsleff executed successfully.

Aarsleff benefits from the experience and established track record of our Danish parent company and German sister company, who between them have designed and installed the Centrum Pile System for thousands of wind turbine foundations on the mainland of Europe in this specialised sector of the construction industry. Each turbine stands 78.5m high, to the hub and 124.8m to the tip of the blade, they strike an impressive view as a backdrop to Africa Alive! Wild Life Park. The wind farm is located close to the North Sea Coast, just 5 miles south of Ness Point. This location also benefits from the coastal wind resource.

The project, despite the weather at the initial stage went well and met all expectations of the Client and their representatives. Maintaining a good, friendly but professional relationship with all parties, the project was delivered to programme and within budget.

Scope of Works
60 No. 400mm square
precast concrete piles

Contractor
R G Carter Civil
Engineering Ltd

Client
Triodos Renewables

Construction period
December 2010

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.

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