

Shoreham Port Wind Turbines

Shoreham-on-Sea

To provide the Shoreham Port facilities with a form of green energy, the Port needed to built two nED100-type wind turbines on the shoreline.



The project

Keller installed 24no minipiles to provide the foundations support to the wind turbines at Shoreham Port.

The challenge

The main challenge was installing the minipiles on a small restricted site between the edge of rock armour sea defences and the concrete wave wall, all within the industrial port area, while ensuring the correct alignment and angle of installation.

The solution

The minipiles were installed from a platform built with sheet piles on the edge of the rock armour sea defences, which extended over the shingle beach below, providing space for the personnel to work safely. Twelve micro piles were installed at each wind turbine location, each up to 25m long, containing a 50mm dia. The micro piles were installed at 5 degrees with the vertical and all radiating out from the centre of the wind turbine. The Getec Azimuth Aligner was used to ensure the correct alignment and inclination.

Project facts

Owner(s)

Shoreham Port

Keller business unit(s)

Keller UK/Getec

Main contractor(s)

Norvento Wind Energy UK

Solutions

Piling

Markets

Power

Techniques

Minipiles

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