

Case Study

Shoreham Harbour Wind Turbines

33kV Ltd

33kV Ltd was established in September 2013 offering High Voltage Electrical and High-Pressure Pipeline Consultancy and Construction services. The company has continually developed its service offering to support the fast-growing UK Distributed Generation market via Traditional Gas fired and Renewable Generation.

The company now offers a full range of ICP, UIP, EPC and O&M services across the UK.

Project Details:

- **Client—Norvento Wind Energy Ltd**
- **Type—Onshore Wind Turbine**
- **Contract—ICP Full Works**
- **DNO—UK Power Networks (UKPN)**
- **Voltage—LV**
- **Connection - “T” Connection**



Norvento Wind Energy Ltd are a European On-shore Wind company.

They purchased the right to construct 2 x 100kW wind turbines as part of Shoreham Port Authority drive to improve the revenue generation and reduce their carbon footprint.

The site was situated on the waterfront next to public footpaths and within reach of seasonal high tides.

This meant that complex work programmes had to be employed to ensure construction was completed without any time lost for any incident or accident but with due regard for concrete operations for the construction of the foundations.

A extra long concrete pumping system was designed to minimise plant operations on the waterfront.

Connection was complicated as it tied into the Private network that operated the harbour pumps and locks.

A new control panel was designed by 33kV Ltd to manage all the additional loads but with a discreet G59 relay to ensure compliance with UKPN requirements.



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