



Case Study

Thermistor Strings

England

Project Summary

PROJECT NAME: Fullabrook Wind Farm, Bittadon, Devon

YEAR: 2010

CLIENT: John Sisk & Son Ltd

Overview

Fullabrook Wind Farm in Devon is operated by Devon Wind Power Ltd, a subsidiary of ESB International and consists of 22 turbines. It is England's largest onshore wind farm and ESB Wind Development's first wind farm construction project in Great Britain. Construction of the 66MW wind farm took place in 2010 and the wind farm has been producing green electricity for export to the grid since autumn 2011.

Each turbine is 65 metres high to the hub with 45 metre blades, making the total height of the turbines 110 metres to the tip of the blade.

The project received a gold award at the recently held 'Considerate Constructors' award.

Monitoring

NVM Ltd was commissioned to supply and install thermistors in the concrete base and pedestal of each turbine.

Each thermistor was monitored by a datalogger and results were downloaded daily.

NVM Ltd designed a user-friendly plug-and-play system for the client. Results from testing could, therefore, be accessed immediately.

Products used

- Thermistor strings: 10 thermistors on each string, 22 strings (pedestal), 22 strings (base)
- G222 thermistors 3kohm 25c +/- 0.1k accuracy
- Cable, 10 pairs
- X20-103 multi-point connection
- 20pt connector for logger case
- 10 channel vibrating wire data logger
- Weather-proof enclosure

Testimonial

"We have recently used NVM on two consecutive wind farm projects in the UK. We were provided with an excellent on-site setup service as well as good off-site backup and technical support. We found the apparatus and equipment supplied to be very robust and reliable in extreme environments. We look forward to working with NVM Ltd in the future."

Alan Donnelly,
Site Agent, John Sisk & Son Ltd