SOLLATEK SUPPLIES VOLTAGE STABILISERS TO THE DUDGEON OFFSHORE WINDFARM

DUDGEON
Offshore Wind Farm
Operated by Equinor

Dudgeon Windfarm
POWER SUPPLY PROJECT

Client: Siemens
Country: Scotland
Year: 2015
Product: AVR3x1200

AVR Exterior
Various Models

Located 32km off the coast of Cromer in North Norfolk, the Dudgeon Offshore Windfarm is a £1.4 billion project harnessing the winds of the North Sea.

Since its completion in late 2017, Dudgeon generates more than 402MW of electricity delivered to onshore substations where two Sollatek automatic voltage regulators stabilise the site power supply to the LVAC distribution board that feed the control and auxiliary equipment.

This project is the collaborative efforts of Norway's Statoil and Statkraft and Abu Dhabi's Masdar, under the joint venture company Dudgeon Offshore Limited. As the UK's most remote windfarm, Dudgeon consists of 67 turbines, each 187m high and produces enough electricity to supply 430,000 UK homes with clean energy. This substantial contribution aligns with the UK's clean energy goals.

The site covers an approximate 55km^2 with a 42km subsea cable making landfall at Weybourne Hope and transmitting electricity to the newly built Necton onshore substation where Siemens have deployed 2 of Sollatek's AVR3S4x1200 Voltage Regulators.

Sollatek has been a long-standing partner with Siemens on the supply of 3 phase Voltage Regulators. The robust 828kVA units are crucial in regulating the voltage to the LVAC equipment at the Necton substation. These AVRs are solid state and maintenance free. Like all Sollatek AVRs, they incorporate the latest technology in voltage regulation from Sollatek, which in contrast to mechanical designs, boasts voltage correction speeds in excess of 1250 V/s.

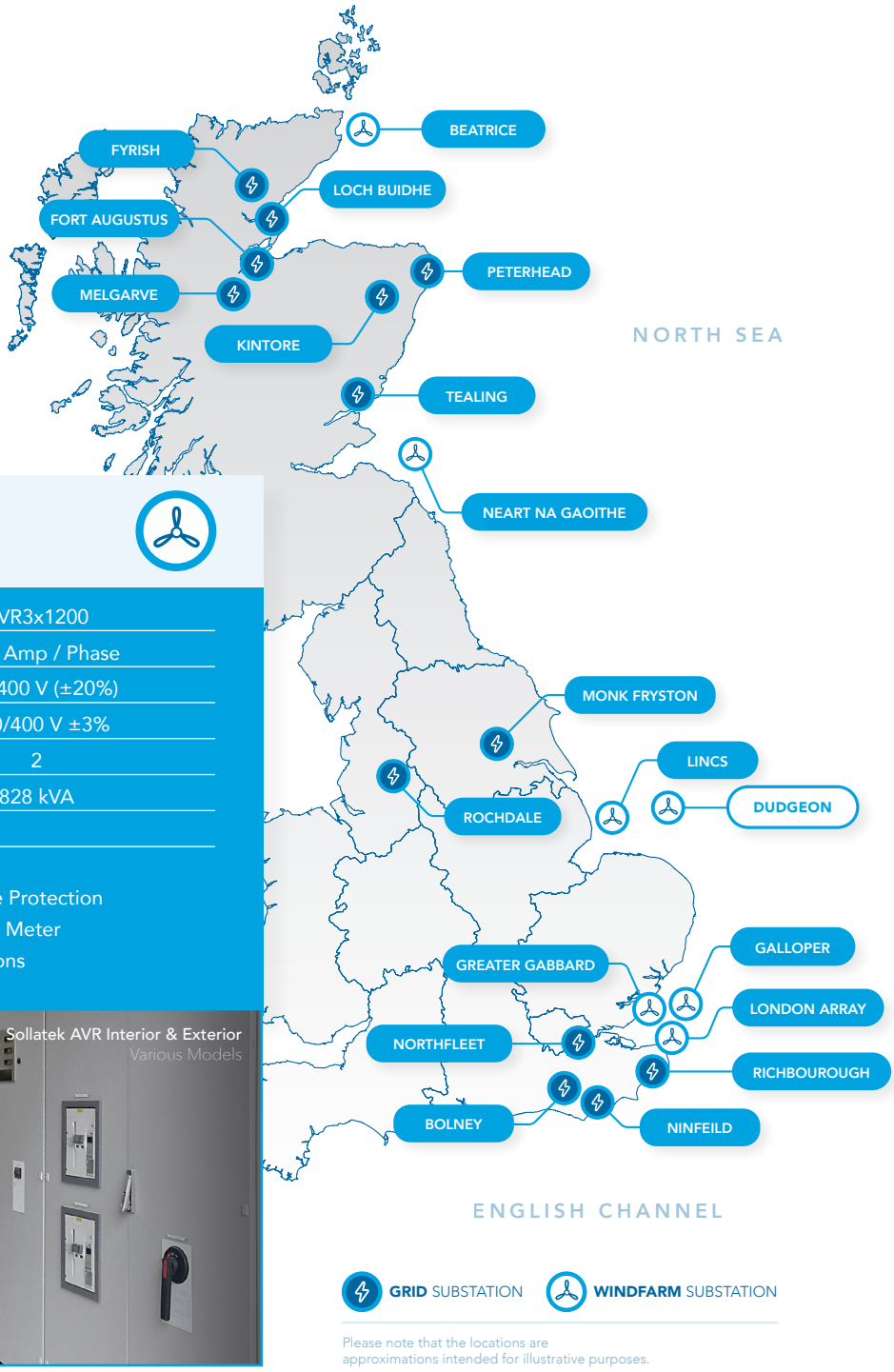
This enables them to rapidly detect voltage variations and correct the output to ensure steady supply. Sollatek AVRs are National Grid approved and designed to comply with the latest stringent specification from the major national electricity generation and distribution companies such as SSE. Providing a comprehensive list of pre-emptive alarms, they can also be monitored remotely to detect any issues and provide preventative diagnostic data.

"Following many successful projects with Sollatek, there was no doubt in our minds that they were the obvious choice"

— Siemens

POWER PROJECTS
UNITED KINGDOM

Sollatek has cemented its reputation as a dependable partner in the power supply infrastructure by providing Automatic Voltage Regulators (AVR) to numerous projects across the UK.



Please note that the locations are approximations intended for illustrative purposes.

Dudgeon Windfarm
SUBSTATION AVR SPECIFICATION

Model	AVR3x1200
Max Current	1200 Amp / Phase
Input Voltage	230/400 V (±20%)
Output Voltage	230/400 V ±3%
Number of Systems	2
Max Output Power	828 kVA

INCLUDED FEATURES

- Input Circuit Breaker
- Output Circuit Breaker
- Manual Bypass
- Class II Surge Protection
- Digital Smart Meter
- Special Options

Sollatek AVR Interior & Exterior
Various Models

Sollatek's expertise extends worldwide through local networks

Established for over 40 years in the United Kingdom, Sollatek is a manufacturer of innovative products in power control, energy saving, temperature control and solar energy. Operating from 12 countries and a global distribution network in 60 more. Sollatek has grown to become a household name, particularly in harsh and demanding environments where reliability and affordability are essential to everyday life. The Sollatek voltage protection product range now includes full lines of voltage switches, stabilisers, conditioners and uninterruptible power supplies (UPS).

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