

Vamp Ltd to provide relay and arc protection systems for Norwegian wind farm



The Hundhammerfjellet wind farm is built to withstand the severe weather and wind conditions of the Norwegian west coast.

Vamp Ltd's relay and arc protection systems have been selected for a wind farm under construction in Norway.

The Hundhammerfjellet power park on the west coast of Norway will comprise 14 wind

turbines, four of which have already been installed. The next four are scheduled for completion during 2006. The wind farm will be operating at full capacity by the end of 2007.

Long-term cooperation

Vamp Ltd's deliveries for the Hundhammerfjellet project include Vamp 260 power monitoring units and Vamp 210 generator protection relays for six of the eight 3,5 MW wind turbines ordered so far. Each generator will also be equipped with Vamp arc protection technology.

Norwegian ScanWind Group AS is supplying the wind turbines. Vamp's customers in the project are the Finnish companies Vaasa Engineering Oy and Verteco Ltd. Together with a third company, Rotatek Finland Ltd, they form an electrical consortium under the name Arctic Wind power Project. Vaasa Engineering Oy's deliveries for the project include the electrical distribution equipment while Verteco Ltd is supplying frequency converter-based power conversion systems and Rotatek is supplying permanent magnet directly driven generators for the wind turbines. Vamp's technology for the project was based on good results and long-term cooperation between the companies involved in various types of

projects. Vamp Ltd's references with Vestas, the world's leading manufacturer of wind turbine technology, were another factor in its favour.

Harsh environment

The Hundhammerfjellet wind farm is located 200 km north of the city of Trondheim, half way up the west coast of Norway. The climate there is severe, with average annual wind strengths of 8.9 metres per second. The ScanWind Group AS turbines used for the project are the most powerful on the market. When completed, the total generated output of the wind farm will be 42 MW, which will be enough to cover the energy needs of 6000 - 8000 households. The turbine includes a gearless, permanent magnet generator and a full-size inverter system. The wind farm will be connected to the existing 66 kV power network via an earth cable.

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