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EUROSKYPARK AND SIEMENS ENERGY

secure data transmission via satellite from offshore wind farms in the North Sea.

The installation of offshore wind farms in the North Sea is progressing at great pace. Until today, Siemens Energy has already received orders for five offshore wind farms to be erected in German waters. To ensure data transmission and plant safety at sea, the world leader in the construction of offshore wind turbines has chosen to enter into a cooperation partnership with EuroSkyPark GmbH (ESP).



The wind farms and the offshore platforms used to connect such farms to the telecommunications network are situated far from the coast in the middle of the North Sea. The prevailing conditions in terms of geography and weather are harsh. That is exactly why Siemens selected a partner with proven knowledge and know-how in offshore projects to ensure data transmission and platform monitoring via satellite: As the world market leader for satellite communications solutions for industry, EuroSkyPark provides its customers with satellite-based solutions that transmit data almost in real time, 24 hours a day and with the highest possible availability. To this end, ESP cooperates with Europe's leading satellite operators whose steadily growing fleet of satellites allows global coverage. Together, the two companies developed a technology that makes two-way data transmission via satellite possible.

The solution is actually simple: To connect wind farms to the telecommunications network, ESP technicians who are trained in offshore technology install sturdy antennas which are directed to the satellites in order to send and receive data. A multiprotocol router especially designed for this purpose caters for data processing in the customer's IT-system. 'We make it possible for our customers to transfer images, voice and data. This system has such a high capacity that we can even control the whole wind farm in case of emergency', Thomas Maul, ESP's CEO, explained.

This successful cooperation to date is to be pursued in other common projects. 'We believe ESP technology is the right solution even for installations under development', said Markus Gaudenz from Siemens Energy commenting on the firms' common future plans. According to predictions by the

European Wind Energy Association, offshore wind turbines with a total capacity of up to 1,500 megawatts will be connected to the grid in 2012. ,The offshore market has huge growth potential!’ Thomas Maul confirmed.

For further details, please contact:

Thomas Maul, t.maul@euroskypark.com

www.euroskypark.com

SIEMENS

EuroSkyPark GmbH (ESP) provides mobile and stationary satellite communications solutions to customers from the energy supply and security industries. With SCADA Access Services, Broadband Access Services and Smart Grid/Metering Access Services, we deliver tailor-made solutions for specific requirements. With the help of its partners, ESP operates a global satellite communications network, and thus is in a position to connect virtual private networks for locally and globally active companies.
