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ENERGY TRANSITION IN PRACTICE:

EuroSkyPark GmbH to deliver data transmission solutions for Windreich's large-scale projects

Windreich AG, one of the leading onshore and offshore wind energy developers, relies on the solutions developed by the Saarbrücken-based company EuroSkyPark (ESP) for data transmission. Besides, Windreich plans to develop its cooperation with ESP, the specialist in satellite communications solutions.



Offshore wind energy is in demand: According to the European Wind Energy Association, offshore wind turbines could feed up to one gigawatt of electricity into the European grid as early as this year. This supposes the seamless transmission of data, whether generated offshore or onshore. 'Here, we cannot afford any communication failures whatsoever. That's why we have opted for the highest-quality solution available on the market' explained Anant M. Khadkikar, project manager for control systems at Windreich AG. The solutions developed by ESP will meet the high demands made upon automation, control systems and, above all, on the communications technology even under the harshest environment and weather conditions.

ESP, the world's number one in satellite communications solutions for the power generation and energy supply industries,

makes sure that ITS customers benefit from previous experience from the project design phase onwards. 'We've made suggestions to Windreich AG on how we would proceed to deliver data transmission in the highest quality and as cost-effectively as possible', Thomas Maul, ESP's CEO, said. In a project such as MEG 1, the first unattended offshore wind farm, the demands made upon ESP solutions are particularly high. Situated in the immediate vicinity of Alpha Ventus, this offshore wind farm is located 45 kilometers north of the Borkum Island in water depths ranging between 27m and 33m. It is expected to produce 400 megawatts of electricity in the future. Terrestrial communications used for transmitting data are not sufficient to ensure high availability. Windreich thus relies on a space connection which is immediately secured by ESP via two HOT-standby satellite links able to take over the full operation of the network without delay in case a subsea cable fails.

Because cooperation between ESP and Windreich has been successful until now, the investment company plans to commission ESP, who has become a global player, to deliver further tasks. ‚ESP has proved to be a professional, reliable and quality business partner‘, reported Anant M. Khadkikar, project manager for control systems at Windreich AG. Network conception, router configuration and antenna mast calculation belong to the jobs that Windreich intends to contract out to ESP in future.



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Windreich AG is a strong group of companies that is actively shaping the energy supply of tomorrow and delivering positive returns on capital to its many investors. As one of the leading onshore and offshore wind energy developers, the group bundles the skills and experience gained from previous projects to promote the development of offshore wind farms in particular. Together with its strategic partners, Windreich AG is making a significant contribution to the utilization of renewable energies and sustainable energy supply.

EuroSkyPark GmbH (ESP) is an innovative company which delivers solutions for controlling and monitoring technical installations where satellite communication and electricity, gas and water supply meet. Starting with three staff in 2006, the company now employs around 60 people, most of whom are engineers or technicians. ESP uses the capacity available on various satellites across the globe and is ASTRA’s exclusive cooperation partner for SCADA services. ESP is the technology leader for the power generation and supply industries; it has considerable expertise in the field of renewable energies and is the market leader in connecting offshore installations to the telecommunications network.