TÜV Rheinland to surveil Senvion rotor-blade production

The Trianel Windpark Borkum II wind farm is being developed 45 kilometers to the north of Borkum in the German North Sea as the second stage of the Trianel Windpark Borkum. (Courtesy: Trianel Windkraftwerk Borkum GmbH & Co. KG)

TÜV Rheinland has been commissioned to perform comprehensive testing on behalf of Senvion, a manufacturer of wind turbines. The experts will surveil the production of rotor blades for the Trianel Windpark Borkum II offshore wind farm. In the process, they will check that the blades conform to the production documents, that the rules of technology are observed, that specific quality requirements set down in the specifications are met, and that deadlines are observed.

The experts from TÜV Rheinland also will examine the documentation. This is not the first commission of its kind for the internationally active certification service provider. After successfully completing a production monitoring order for rotor blades in Castellón/Spain for the Nordgründe and Nordsee One wind farms, TÜV Rheinland has now been commissioned to surveil the blade production in Portugal as well.

The Trianel Windpark Borkum II wind farm is being developed 45 kilometers to the north of Borkum in the German North Sea as the second stage of the Trianel Windpark Borkum, a wind farm that has been operating since 2015. After completion, which is planned for autumn 2019, it will have an output of around 203 megawatts. It will contain 32 turbines from the Senvion 6.XM series.

Senvion is a leading global manufacturer of both onshore and offshore wind farms. The international engineering company develops, produces, and operates wind farms for almost any location — with a rated output between 2.0 and 6.33 MW and rotors ranging

from 82 to 152 meters in diameter. Senvion also offers its customers project-specific solutions in the fields of turnkey solutions, service and maintenance, transport and installation, and foundation planning and construction.

TÜV Rheinland is accredited by DAkkS, the German accreditation body, as a certification organization for type and component certification for onshore and offshore wind turbines according to national and international standards and is listed as an RE Certification Body by the IECRE. The company offers ambitious services such as location analysis, geotechnical exploration, and verification of structural analysis but also manufacturer monitoring, quality inspection, and construction monitoring. As an inspection body accredited by DAkkS according to DIN EN 17020, TÜV Rheinland offers wind-turbine operators recurring and state-oriented testing, digitally assisted assessment of system conditions, and special examinations by means of the latest destruction-free test methods. Special location reports, due diligence investigations, and yield forecasting in turn serve to secure investments.

Source: TÜV Rheinland

For more information, go to www.tuv.com

Vestas installs V120-2.0 MW prototype

Vestas is improving energy production for its 2 MW platform in low- and ultra-low wind conditions by installing a prototype V120-2.0 MW turbine with the ability to run in 2.2 MW Power Optimized Mode. At the same time, Vestas is introducing an upgraded 2.2 MW nominal rating turbine that expands the 2 MW platform into medium- to low-wind conditions with high turbulence.

Having announced the V120-2.0 MW turbine in the spring of 2017, the upgraded V120-2.2 MW includes a stronger gearbox and reinforced blades that strengthen performance in higher wind conditions. The V120-2.2 MW is globally applicable and designed for medium- to low-wind with higher turbulence conditions, which make the turbine a great fit for North America.

Vestas also is introducing an upgraded 2.2 MW turbine. (Courtesy: Vestas)

The V120-2.0 MW prototype is operating at the Lem Kjær wind park in Western Jutland, Denmark, and has produced its first kilowatt hour of electricity. The prototype will undergo an extensive test and verification program to ensure reliability before full-scale production commences prior to the first deliveries. The turbine at Lem Kjær will be converted into a V120-2.2 MW prototype in the fourth quarter of 2018 where blades and gearbox will be changed.

"With the successful V120-2.0 MW prototype installation and introduction of the upgraded V120-2.2 MW turbine, Vestas once again demonstrates its ability to meet customer requirements by lowering cost of energy and reducing time to market for new products," said Anders Vedel, executive vice president & CTO.

The 2 MW platform was launched in 2000 and leverages years of experience in supply chain, transport, and installation optimization. With more than 20,000 turbines installed in 45 countries since its debut, Vestas' 2 MW platform the most widely installed platform in the industry with 40 GW of accumulated installed capacity.

Source: Vestas

For more information, go to www.vestas.com

Vestas strengthens presence in Argentina with new assembly facility

Building on its successful track record in Latin America, Vestas strengthens its position as the leading wind-turbine manufacturer in Argentina by building a hub and nacelle assembly facility in the Buenos Aires province. The new facility, which will generate hundreds of news-jobs once complete, is being established to meet the country's huge growth potential within wind energy, expected to reach 10 GW of new installations by 2025.

"Our leadership position with more than 900 MW of either installed capacity or capacity under construction underlines the need to take a big step forward to better support the government's ambitions for renewable energy," said Andrés Gismondi, sales director for Latin American South Cone. "By building this assembly facility, we will serve our customers' needs in the country even better and generate hundreds of local jobs."

With nine production facilities around the globe and carefully selected partners, Vestas' global manufacturing footprint guarantees delivery of high quality products to its customers by manufacturing core components close to key markets. With the new production facility in Argentina, Vestas aims to optimize production while creating about 300 direct and indirect jobs.

"The fact that a global leader in renewable energy is interested in expanding its presence in Argentina clearly proves that we are on the right path, providing investors with the confidence and trust needed to invest in our green transition," said Minister of Energy Juan José Aranguren.

"Vestas' positioning in Argentina is good news, not only for the number of jobs that will be created thanks to its localization plan, but also for the technology transfer to small- and medium-sized enterprises in the country," said Minister of Production Francisco Cabrera.

Vestas pioneered Argentina's wind-energy market with the installation of the country's first commercial wind turbine in Neuquén back in 1991. Since then, Vestas has closely monitored the evolution of the market, which now stands out as a key market in Latin America. The government launched the RenovAr programme in 2015, which aims to reach a 20 percent renewable energy target by 2020.

Source: Vestas

For more information, go to www.vestas.com