SpiDAR is a rugged, market-proven product that measures wind with high reliability and accuracy at the range of heights required by wind farms all over the world. (Courtesy: NRG Systems)

ping new SpiDAR units in early 2019 and will start offering complete service to existing SpiDAR customers in the coming weeks. NRG Systems will continue to work in close partnership with Leosphere to sell and support Leosphere's Windcube Lidar in North America.

MORE INFO nrgsystems.com

MANUFACTURING

Siemens Gamesa tailors turbine for Asia-Pacific markets

The new SG 8.0-167 DD offshore wind turbine variant for Asia-Pacific markets addresses local conditions across the region. Based on the proven Siemens Gamesa Offshore Direct Drive wind turbine platform, the variant is strongly suited for the growing Taiwanese offshore wind market. It ensures that the SG 8.0-167 DD is tailored to meet local codes and standards regarding typhoons, seismic activities, 60 Hertz operation, as well as operation in high and low ambient temperatures. The design will be ready in 2019, with installation possible by 2020 for Taiwan. The flexible solution can also be adapted to individual market needs.

"Serving the growing Taiwanese offshore wind power market with our new product allows us to provide our customers with a cost-efficient, reliable, and powerful wind turbine which can withstand the challenging local conditions. The market-specific variant of the SG 8.0-167 DD demonstrates our commitment to moving the market forward on a technological front already from 2019," said Andreas Nauen, CEO of the Offshore Business Unit of Siemens Gamesa Renewable Energy.

The SG 8.0-167 DD wind turbine has a rated capacity of 8 MW, and a rotor with a 167-meter diameter. It has a swept area of 21,900 square meters, and uses the SGRE B81 blades, each measuring 81.4 meters. By the time of its introduction, more than 1,000 SGRE Direct Drive offshore wind turbines will be installed globally.

The variant ensures a design that accommodates local codes and standards in Taiwan and other Asia-Pacific (APAC) markets such as Japan. These include IEC Typhoon Class (T-Class) type certification by 2020, where the product will be certified as able to handle elevated extreme wind speeds in typhoon conditions. Siemens Gamesa is working closely with local authorities and certifying body to ensure that all applicable standards are considered.

Electrical systems and components will be adapted to 60Hz operation; grid models will be updated to reflect this 60Hz operation and local grid codes. Furthermore, the ability to operate in both high and low ambient temperatures reduces thermal limitation, thus increasing annual energy production while preserving turbine lifetime.

"We see promising developments ahead for the offshore wind industry in APAC as a whole. With Taiwan as an important regional base and the introduction of the market-specific variant of the SG 8.0- 167 DD, we're able to meet customer needs in markets as they develop," said Niels Steenberg, Executive General Manager of Siemens Gamesa Offshore for Asia-Pacific.

MORE INFO www.siemensgamesa

MANUFACTURING

Moray East signs agreement with MHI Vestas Offshore Wind

Following the announcement in October 2017 of the selection of MHI Vestas as preferred turbine supplier for the Moray East offshore wind project, Moray East has recently signed a conditional agreement with MHI Vestas Offshore Wind for the supply and installation of 100 MHI Vestas V164-9.5 MW offshore wind turbine generators.

Moray Offshore Windfarm (East)

Limited, known as Moray East, is a 950 MW offshore wind project 22 kilometers from the coast of Scotland, which in 2017 won a Contract for Difference (CfD) from the U.K. Government to supply electricity at 57.50 pounds/MWhr, representing a significant cost reduction compared with similar projects under construction today (typically 140 pounds/MWhr).

In May, Moray East announced Fraserburgh as the preferred operations and maintenance port for the project.

Moray East project director Oscar Diaz said, "This agreement comes after the selection of MHI Vestas as preferred turbine supplier, and Fraserburgh as preferred port from which operation and maintenance of the turbines will be undertaken. I am grateful for the cooperation with our partners in industry and beyond, which will enable the project to reach another important milestone."

MHI Vestas CEO Philippe Kavafyan said, "With this conditional agreement, we are exceptionally pleased to see Moray East move one step closer to Final Investment Decision. The supply of 100 units of our V164-9.5 MW turbines, the most powerful commercially available turbine in the world, is confirming MHI Vestas Offshore Wind's strong U.K. pipeline. This translates into clean energy jobs locally and across the U.K. through our production of blades on the Isle of Wight and the local offshore wind supply chain. We look forward to working together with the Moray East project to maximize its potential for the local area."

MORE INFO www.mhivestasoffshore.com

Moray Offshore Windfarm (East) Limited, known as Moray East, is a 950 MW offshore wind project 22 kilometers from the coast of Scotland. (Courtesy: MHI Vestas)

MAINTENANCE

Vestas upgrades IKEA Group's global fleet of Vestas turbines

Leveraging Vestas' performance-improving PowerPlus® products, Vestas will upgrade long-time customer IKEA Group's global portfolio of Vestas turbines, equaling 316 MW, to maximize the value of their wind energy assets. The upgrades span across six different Vestas turbine types and are expected to generate on average 1.5 percent in additional energy production, estimated at a total of 13.5 GWh a year.

With the PowerPlus® program, Vestas can increase a wind-power plant's energy production and efficiency through site-specific optimization of operational parameters, implementation of intelligent software algorithms, or enhanced aerodynamic performance.

IKEA Group has ambitious sustainability targets in place, including an ambition to produce as much renewable energy as they consume by 2020.

"It is great that we can extend the cooperation with Vestas and optimize the performance of the wind farms. We value long-term relationships with our partners as we want to work together to improve and develop quality of operation and maintenance services," said Krister Mattsson, responsible for financial asset management, IKEA Group.

"We are thrilled to upgrade IKEA Group's existing energy assets and support them in reaching their target of powering their production and consumption with renewable energy. We continue to innovate and develop solutions that can increase energy production, which also means that already operating turbines can be upgraded to yield even more energy. In this case, we have improved the existing business case through a global deal, where we upgrade six different turbine types, once again emphasizing the flexibility of our offerings," said Mariel Alexandra Garrido Urena, head of fleet optimization

IKEA Group's global portfolio of Vestas turbines in the U.S., Sweden, France, and Poland will be upgraded, and this includes V80-2.0 MW, V90-2.0 MW, V90-3.0 MW, V100-2.0 MW, V112-3.0 MW and V112-3.3 MW turbines.

MORE INFO www.vestas.com

MAINTENANCE

Controlled Bolting OEM adds portable machining range

Cramlington-headquartered OEM HTL Group continues to expand its portfolio of customer-focused solutions with the addition of Climax and H&S Tooling's portable machining range.

The addition will see both ID and