

Press release

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236 meters & 3.6 GW: Siemens Gamesa & Vattenfall to partner using new Siemens Gamesa offshore turbine at massive Norfolk offshore wind projects

- Nominated preferred supplier agreement reached for Norfolk offshore wind power projects in UK with Vattenfall
- Total capacity of 3.6 GW for projects located 47 - 72 km from shore
- Service agreement included; project expected to use new SG 14-236 DD offshore wind turbine
- SG 14-236 DD offshore wind turbine can reach 15 MW capacity with Power Boost; is based on existing flagship turbine
- Swept area increased to 43,500 m²
- Prototype of 236-meter rotor machine to be installed in 2022; commercially available in 2024

Siemens Gamesa has been named Nominated Preferred Supplier by Vattenfall for the 3.6 GW Norfolk offshore wind power projects in the UK. The agreement includes the potential deployment of the new SG 14-236 DD offshore wind turbines and a multi-year Service agreement. Located between 47 - 72 km off the English east coast, the agreement encompasses Vattenfall's Norfolk Vanguard and Norfolk Boreas projects. Each park has a capacity of 1.8 GW.

The nominated preferred supplier agreement between Siemens Gamesa and Vattenfall is subject to the UK Government's Contract for Difference Round 4 auction award in calendar year 2022 and subsequent final investment decision by Vattenfall.

"The Siemens Gamesa – Vattenfall partnership has been fruitful for a great number of years across numerous markets. With this Nominated Preferred Supplier agreement for the Norfolk projects, we aim to add another 3.6 GW to our joint portfolio," says Marc Becker, CEO of the Siemens Gamesa Offshore Business Unit. "Developing an even larger rotor for our flagship offshore wind turbine is an example of how we are always seeking to innovate and improve. We can increase blade length and incorporate the solution on our existing design. We are committed to leading the offshore revolution, adding value to our customer's projects and unlocking the potential of wind power."

“Vattenfall’s Norfolk projects will form one of the largest offshore wind zones in the world when they are completed, generating enough renewable electricity to power the equivalent of 4 million homes. We’re very pleased to be able to announce Siemens Gamesa as the Nominated Preferred Supplier for Norfolk Vanguard and Norfolk Boreas. We want to accelerate fossil free living in an affordable way for our customers, and we are always aiming for the right partners to make this happen. I am looking forward to the next steps on this grand journey,” says Catrin Jung, Head of Business Unit Offshore at Vattenfall.

Siemens Gamesa is the world’s leader in the offshore wind industry. The company has a significant presence in the UK wind industry with over 2,100 direct employees across all business functions, and closely collaborates with a wealth of local suppliers. The Siemens Gamesa facility in Hull is the largest offshore wind manufacturing facility in the UK. The company recently announced an investment of £186 million to double the size of the facility by over 41,000 square meters, adding approximately 200 jobs to the approximately 1,000 jobs already present. This expansion will enable manufacturing of next-generation offshore wind turbine blades. Approximately 500 persons are directly employed in Siemens Gamesa’s UK offshore service functions, ensuring smooth operations and maintenance of the more than 1,800 Siemens Gamesa offshore wind turbines installed in UK waters.

New SG 14-236 DD offshore wind turbine

The newest Siemens Gamesa wind turbine features a 236-meter diameter rotor using Siemens Gamesa IntegralBlades, with an astounding 43,500 m² swept area. This allows the SG 14-236 DD to provide an increase of more than 30% in Annual Energy Production compared to the SG 11.0-200 DD offshore wind turbine. Furthermore, the machine can reach an impressive 15 MW capacity including the company’s Power Boost function. As it is built on sound technology, the new machine otherwise remains unchanged in relation to the SG 14-222 DD offshore wind turbine.

The prototype SG 14-222 DD machine has already been installed at the Danish National Test Center for Large Wind Turbines in Østerild, Denmark. Final commissioning and full operation is expected before the end of calendar year 2021. This milestone will greatly expedite the installation of the SG 14-236 DD prototype in calendar year 2022.

Patented Siemens Gamesa RecyclableBlades will be available as options for customers selecting the SG 14-236 DD machine. The world’s first recyclable wind turbine blades ready for commercial use offshore have already been produced.

Extending on the proven offshore direct drive track record, the SG 14-236 DD is based on Siemens Gamesa's deep understanding and expertise gained over five product generations since the platform was launched in 2011. Key components such as safety systems, hub and tower concepts, operations and maintenance solutions, along with a strong, qualified supply chain form the basis of the new offshore wind turbine.

Over 1,400 Siemens Gamesa Direct Drive offshore wind turbines have been installed in all major offshore wind markets globally. They include the UK, Germany, Denmark, The Netherlands, Belgium, Taiwan, and the USA, among others. With over 18 GW of installed capacity globally, Siemens Gamesa is the world's leading supplier of offshore wind turbines. More than 18 additional GW of capacity are in the company's pipeline, with installations planned for the markets mentioned above and new offshore markets including the USA and France.

About Siemens Gamesa Renewable Energy

Siemens Gamesa unlocks the power of wind. For more than 40 years, we have been a pioneer and leader of the wind industry, and today our team of more than 25,000 colleagues work at the center of the global energy revolution to tackle the most significant challenge of our generation – the climate crisis. With a leading position in onshore, offshore, and service, we engineer, build and deliver powerful and reliable wind energy solutions in strong partnership with our customers. A global business with local impact, we have installed more than 110 GW and provide access to clean, affordable and sustainable energy that keeps the lights on across the world. To find out more, visit www.siemensgamesa.com and connect with us on social media.

About Vattenfall

Vattenfall is a European energy company with approximately 20,000 employees. For more than 100 years we have electrified industries, supplied energy to people's homes and modernised our way of living through innovation and cooperation. We now want to make fossil-free living possible within one generation. Visit <https://group.vattenfall.com/uk/what-we-do/our-projects/vattenfallinnorfolk> for more information.

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