

Press Release

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Vattenfall's Hollandse Kust Zuid 1&2 wind power plant to be fitted with new 11 MW Siemens Gamesa turbines

- The newest version of Siemens Gamesa offshore wind turbine - launched just one day earlier - can reach 11 MW capacity under specific site conditions and it is the perfect fit for the world's first subsidy-free offshore wind power project
- Installation planned for 2022; project to supply up to three million Dutch households expected to be fully operational in 2023

Siemens Gamesa Renewable Energy (SGRE) and Vattenfall extend Hollandse Kust Zuid turbine supply to cover the entire Hollandse Kust Zuid wind farm zone, making this the largest turbine collaboration to date for Vattenfall. Vattenfall will act as launching customer to pioneer Siemens Gamesa's most powerful offshore wind turbine.

At the WindEurope Offshore 2019 Conference & Exhibition in Copenhagen, Vattenfall and Siemens Gamesa Renewable Energy (SGRE) announced that they have agreed to extend the Hollandse Kust Zuid (HKZ) turbine supply, subject to certain conditions including Vattenfall's final investment decision, to now also include HKZ 1&2 in addition to HKZ 3&4.

The HKZ wind farm zone is planned to be fitted with approximately 140 units of SGRE's upgraded version of its Direct Drive offshore wind turbine, which now features the ability to reach a capacity of 11 MW.

This capacity upgrade, available under certain site conditions, means that fewer turbines are needed to generate the same amount of energy. This will reduce installation, operations and maintenance costs and thereby contribute to further reductions in Levelized Cost of Energy for offshore wind. Furthermore, it significantly reduces the environmental impact of installation and operation of the wind farm.

"Our robust cooperation with Vattenfall becomes even more powerful with this conditional order. The newest version of our largest offshore Direct Drive machine is now setting the benchmark for turbines in subsidy-free offshore wind power projects. We're thankful for the trust Vattenfall has placed in us to

deliver the high levels of safety, reliability, and performance which they value so highly. Delivering clean energy for generations to come at a low Levelized Cost of Energy is a joint target which we're committed to achieving together", says Andreas Nauen, CEO of the Siemens Gamesa Offshore Business Unit.

"By deploying one of the largest and most efficient turbines ever for the first subsidy-free offshore wind farm to date, Vattenfall is underlining its position as a leader in the offshore wind industry. It's a major step for Vattenfall in realising its mission to enable fossil free living within one generation. Using their newest turbine variant, highlights our strong and long-standing partnership with Siemens Gamesa. This milestone follows an intensive, open tendering process which resulted in a choice for Siemens Gamesa after they entered the most competitive bid", says Gunnar Groebler, Senior Vice President and Head of Business Area Wind at Vattenfall.

In July 2019, Vattenfall won the tender to build Hollandse Kust Zuid 3&4. In March 2018, a permit had already been awarded to Vattenfall to build Hollandse Kust Zuid 1&2. Both tenders were won by Vattenfall with a zero subsidy bid. Once fully operational, Hollandse Kust Zuid will generate enough power to supply up to three million households with green electricity. The development of the wind farm is subject to certain conditions, including Vattenfall's final investment decision.

About Siemens Gamesa Renewable Energy

Siemens Gamesa is a global leader in the wind power industry, with a strong presence in offshore, onshore and services. Through its advanced digital capabilities, the company offers one of the broadest product portfolios in the industry as well as industry-leading service solutions, helping to make clean energy more affordable and reliable. With over 99 GW installed worldwide, Siemens Gamesa manufactures, installs and maintains wind turbines, both onshore and offshore. Its backlog stands at €25.5 billion. The company is headquartered in Spain and listed on the Spanish stock exchange (included in the Ibex-35 index).

About Siemens Gamesa Offshore

As of September 2019, SGRE has over 3,490 offshore wind turbines in operation globally with a combined capacity of more than 15.2 GW. The company's experiences reach back as far as 1991, when it established the world's first offshore wind power plant. Through a strong focus on safety and innovation, SGRE constantly strives to reduce the Levelized Cost of Energy from offshore wind power.

About Vattenfall

Vattenfall is a leading European energy company, that for more than 100 years has 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. Therefore, we are driving the transition to a more sustainable energy system through growth in renewable production and climate smart energy solutions for our customers. We employ approximately 20,000 people and have operations mainly in Sweden, Germany, the Netherlands, Denmark and the UK. Vattenfall is owned by the Swedish state. For more information: www.corporate.vattenfall.com

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