

## TÜV NORD certifies one of the largest offshore wind turbines in the world



**Hamburg: Siemens Gamesa Renewable Energy (SGRE) commissions TÜV NORD with the certification one of the largest offshore wind turbines in the world. The first of these new 10 MW turbines are expected to be ready for the market in 2022.**

*The SG 10.0-193 DD is one of the largest wind turbines in the world.*

*Picture: Siemens Gamesa Renewable Energy*

With a diameter of 193 metres and a capacity of 10 megawatts, the SG 10.0-193 DD is one of the world's largest offshore wind turbines. Thanks to the larger rotor blades, with the length of almost a football field, the turbine produces 30 percent more energy annually than its eight-megawatt predecessor. The turbine can thus supply around 10,000 average European households with electricity annually. TÜV NORD takes over the type certification of the SG 10.0-193 DD and herewith continues the close partnership with Siemens Gamesa.

### **Intensive assessment for type certification**

The first prototype of the SG 10.0-193 DD is planned to be erected this year. For the prototype and type certification, TÜV NORD evaluates the design of the offshore wind turbine and issues the respective certificates if the conclusion on the results is positive. Detailed tests and measurements including load validation measurements, safety and function tests as well as power performance are executed as a part of the prototype and type testing campaign. Based on the obtained data, TÜV NORD verifies characteristics of the wind turbine as assumed in the design evaluation.

At the same time, TÜV NORD checks in production monitoring whether the production of the main components and the final assembly of the hub and nacelle of the offshore wind turbine comply with

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the design requirements and the SGRE specifications and are ready for high-quality series production.

"With the SG 10.0-193 DD, Siemens Gamesa is launching one of the most powerful offshore wind turbines on the market", explains Silvio Konrad, member of the Industry Service division management and responsible for the strategic business area Energy. "We are delighted that Siemens Gamesa, following the certification of the turbines from G2 and D3 onshore platforms, is now placing its trust in us to accompany its offshore developments in a spirit of partnership."

#### **About TÜV NORD GROUP:**

*Since our foundation 150 years ago, we have been the global byword for security and trust. As a knowledge-based company, we have the digital future firmly in mind. With specialists ranging from engineers and IT security professionals to professionals for the mobility of tomorrow, we use our expertise in over 70 countries to ensure that our customers will be even more successful in the networked world.*

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