

TÜV NORD and GE Renewable Energy Announce first Design Conformity Statement for wind turbines with a lifetime of 40 years

May 21, 2019

- TÜV NORD issues first Design Evaluation Conformity Statement for forty years, twice the customary length
- Approach positions GE Renewable Energy and TÜV NORD as industry pioneers
- Certification cover GE Renewable Energy's 2.7-116 turbine

May 21, 2019 Houston - GE Renewable Energy and TÜV NORD today announced a milestone in the testing and certification of wind turbines today, the first design conformity statement to cover a 40-year period. TÜV NORD issued the statement for GE Renewable Energy's 2.7-116 turbine in accordance with the IEC 61400-22 standard. It is the first time that GE Renewable Energy has sought or received such a certification.

The GE 2.7-116 onshore wind turbine from GE's Onshore Wind business has a diameter of 116 meters, 56.9 meter long rotor blades and a hub height of 90 meters generates an output of 2.7 megawatts. It is primarily designed for areas with strong winds.

"Normally, we certify wind turbines for a period of 20 years," explains Mike Wöbbing, Executive Vice President Renewables at TÜV NORD and General Manager of TÜV NORD EnSys. "The design review for such a long period of time was a real milestone for us as well."

Sheri Hickok, General Manager - Global Product Development, GE Onshore Wind, said, "We're delighted to have been able to partner with TÜV NORD

on this certification milestone. We believe it is significant for our customers because it will both help them lower LCOE and de-risk their wind farms, both key considerations at the industry grows and matures."

In issuing the Design Evaluation Conformity Statement, TÜV NORD conducts a thorough evaluation of the design of the wind turbine. This evaluation process includes, for example, the calculation of the turbine loads and the verification of the component design (rotor blade, mechanical components and structures, tower and internals). For the increased service life, the components are subjected to additional loads in line with the extended service life. In addition, ageing and wear as well as potential faults resulting from them are taken into account.

The safety system and the manuals, the electrical system and the manufacturing processes are also evaluated. GE has developed an inspection and replacement concept that includes the safety-relevant components to ensure plant integrity over the entire life cycle, something that required a particularly interdisciplinary review by TÜV NORD.

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About GE Renewable Energy

GE Renewable Energy is a \$15 billion business which combines one of the broadest portfolios in the renewable energy industry to provide end-to-end solutions for our customers demanding reliable and affordable green power. Combining onshore and offshore wind, blades, hydro, storage, utility-scale solar, and grid solutions as well as hybrid renewables and digital services offerings, GE Renewable Energy has installed more than 400+ gigawatts of clean renewable energy and equipped more than 90 percent of utilities worldwide with its grid solutions. With nearly 40,000 employees present in more than 80 countries, GE Renewable Energy creates value for customers seeking to power the world with affordable, reliable and sustainable green electrons.

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Founded 150 years ago, we stand for security and trust worldwide. As a knowledge company, we have the digital future firmly in our sights. Whether engineers, IT security experts or experts for the mobility of the future: We ensure in more than 70 countries that our customers become even more successful in the networked world.

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