

# Power for generations



The SG 11.0-200 DD

# The SG 11.0-200 DD: Power for Generations



Building the future of clean energy for generations to come means learning from the past, using a strong foundation, and growing from it. The SG 11.0-200 DD has evolved from generations of proven offshore Direct Drive technology. A showcase of strong performance, swift time to market and a low level of risk in the offshore wind industry.

We offer the best possible offshore solutions to customers while maintaining a low degree of risk. Since the first offshore Direct Drive turbine was made commercially available several years ago, our Direct Drive turbines have seen upgrades in performance and benefits to our customers – all building on many generations of proven technology.

Now, by taking this even further, the newest generation of Siemens Gamesa Direct Drive wind turbines offer the same reliability with a capacity of 11 MW. Introducing the SG 11.0-200 DD.

#### Small Change – Huge Difference

The 11 MW rating is made possible through a larger generator diameter, reusing the proven Direct Drive generator technology. By increasing the rotor diameter to an impressive 200 meters with 97-meter-long blades, the SG 11.0-200 DD offers up to 40% more annual energy production than its predecessor, the SG 8.0-167 DD.

#### Proven Technology

The rest of the components have been tried and tested over generations of turbines – our Direct Drive technology, IntegralBlade® technology, tower concepts, as well as maintenance and safety systems. Features such as High Wind Ride Through and the power boost function help give the turbine an industry-leading level of availability. Utilizing known and proven components and concepts from trusted suppliers also provides Siemens Gamesa with a strong, established value chain, with clear processes and skilled, experienced employees.

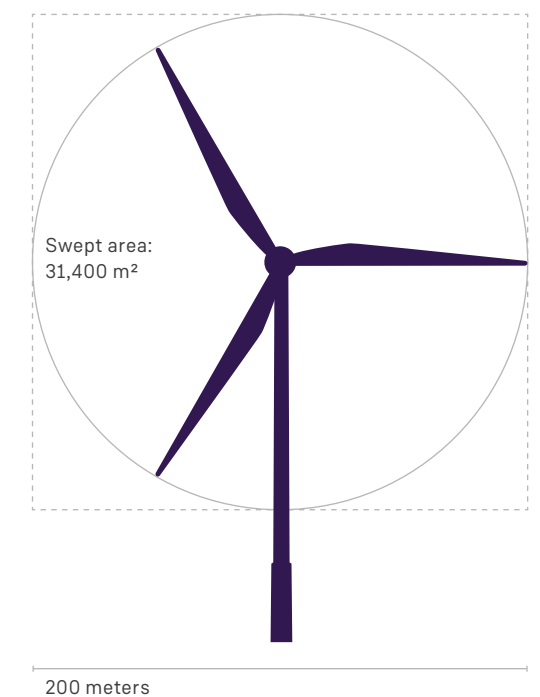
By building the new SG 11.0-200 DD on experience from previous generations, we improve profitability and reduce the level of risk for our customers.

#### Decades of Experience

As trusted partners on the world's first offshore wind power plant, Vindeby, Siemens Gamesa has been applying knowledge and experience into offshore wind turbines for decades. We have delivered a great number of landmark offshore projects and support our customers in realizing the full potential of their offshore wind power projects.

We can offer these solutions because we invest heavily in ensuring unmatched reliability through extensive testing in one of the world's largest dedicated wind turbine test centers. With every new generation of our Direct Drive turbine technology, component improvements generate greater performance while maintaining the proven dependability of the technology. By introducing a new product on the offshore Direct Drive platform, we are able to reduce the time to market – thanks to standardized processes and a fully developed and industrialized supply chain.

For the customer, this makes the SG 11.0-200 DD a safe and reliable investment. The degree of risk is not only reduced on a turbine level – by building on our proven offshore Direct Drive platform, we also provide valuable synergies for project development. A solution to ensure high output and reliability as well as the lowest possible risk. The SG 11.0-200 DD: power for generations.



SG 11.0-200 DD	
IEC class	I, S
Nominal power	11 MW
Rotor diameter	200 m
Blade length	97 m
Swept area	31,400 m <sup>2</sup>
Hub height	Site specific
Power regulation	Pitch-regulated, variable speed

Siemens Gamesa Renewable Energy, S.A.  
Parque Tecnológico de Bizkaia, edificio 222  
48170, Zamudio, Vizcaya, Spain

Registered in the Mercantile Registry of Vizcaya,  
Book 5139, Volume 60, Sheet BI-56858,  
with Tax Identification Number (NIF) A-01011253.

All rights reserved.

Trademarks mentioned in this document are the property of Siemens Gamesa Renewable Energy, S.A., its affiliates, or their respective owners.

Subject to changes and errors.

The information given in this document only contains general descriptions and/or performance features, which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.