

SG 8.0-167 DD (Siemens-Gamesa)

Main data

Rated power: 8000 kW
Rotor diameter: 167 m
Available
Class: IEC S/IB
Offshore model: yes
Commissioning: 2019

Rotor

Number of blades: 3
Type: Pitch
Swept area: 21904 m²
Power density: 2.74 m²/kW

Tower

Minimum hub height: 92 m
Maximum hub height: 92 m

Weights

Gearbox

Direct drive

Wind speeds

Cut-in wind speed: 3 m/s
Rated wind speed: 12 m/s
Cut-off wind speed: 25 m/s

Generator

Type: SYNC PM
Number: 1
Voltage: 690 V

Siemens Gamesa conditionally awarded largest U.S. offshore wind power order to date: 1.7 GW from Ørsted and Eversource

- Conditional contract encompasses three offshore wind power projects in northeastern U.S.: the 880 MW Sunrise Wind project, the 704 MW Revolution Wind project and the 130 MW South Fork project
- Delivery includes SG 8.0-167 DD wind turbines and service agreements
- Largest U.S. offshore wind power contract conditionally awarded to date
- Projects expected to be online between 2022-2024 subject to final investment decision

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Siemens Gamesa Renewable Energy (SGRE) has conditionally received a record order for 1,714 MW from Ørsted and Eversource. Encompassing three offshore wind power projects, the signed conditional contract is the largest U.S. offshore wind power order to date. It encompasses the supply, delivery, and installation of SG 8.0-167 DD wind turbines including service agreements in federal waters off the northeastern coast of the U.S. All deliveries are subject to Ørsted and Eversource's final investment decision.

Siemens Gamesa has been conditionally awarded the contract to deliver offshore wind turbines totalling 880 MW for the Sunrise Wind project, which will be the company's largest offshore wind project in the U.S. Ørsted and Eversource were awarded this capacity by New York State

today, SG 8.0-167 DD offshore wind turbines will be utilized at the project in federal waters about 50 km / 30 miles off Montauk Point in New York. The contract is included. The Sunrise Wind project is expected to be operational by the end of 2022 and will deliver power to the Long Island Power Authority.

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“An order of this size is a testament to the confidence which Ørsted and Eversource place in Siemens Gamesa. Delivering clean energy for generations to come – now on a large-scale basis in the U.S. offshore market – is a goal we are proud to share with Ørsted and Eversource. We are committed to doing so safely and with a strong focus on reducing the Levelized Cost of Energy from offshore wind in this rapidly developing market,” said Andreas Nauen, CEO of the Siemens Gamesa Offshore Business Unit.

“We had already secured a US construction pipeline of almost one gigawatt before the end of 2018 and have been looking into further growth in the US offshore wind market. We saw an opportunity to secure a bigger turbine volume early in order to gain economies of scale, and Siemens Gamesa was able to provide an attractive offering for this large volume,” says Anders Lindberg, Executive Vice President, EPC, at Ørsted.

“Siemens Gamesa has long been the global market leader in offshore wind with 12.5 GW installed. This major order signals that we are well positioned to maintain this leadership role in the budding U.S. market,” says Steve Dayney, Head of Offshore North America at Siemens Gamesa Renewable Energy. “We have always believed in the potential of this market, and with the partnership of Ørsted and Eversource, we are excited to bring 1.7 GW of clean, reliable offshore wind electricity to American communities in the northeast.”

The SG 8.0-167 DD wind turbine has a rated capacity of 8.0 megawatts (MW), and a rotor with a 167-meter diameter. It has a swept area of 21,900 m², and uses the SGRE B81 blades, each measuring 81.4 meters. By 2020, more than 1,000 SGRE Direct Drive offshore wind turbines will be installed globally.

The U.S. variant of the SG 8.0-167 DD is designed for IEC class S, considering tropical storm conditions (T-Class for the Rotor Nacelle Assembly). The T-class type certification for the Rotor Nacelle Assembly will be achieved by December 2020, where the product will be certified to handle extreme wind speeds in hurricane conditions in accordance with IEC 61400-1 edition 4. Furthermore, electrical systems and components will be adapted to 60Hz operation.

About Siemens Gamesa Renewable Energy Offshore

As of December 2018, SGRE has over 3,100 offshore wind turbines in operation globally with a combined capacity of more than 12.5 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 Siemens Gamesa Renewable Energy

Siemens Gamesa is a global leader in the wind power industry, with a strong presence in all facets of the business: offshore, onshore and services. The company's advanced digital capabilities enable it to offer one of the broadest product portfolios in the sector as well as industry-leading service solutions, helping to make clean energy more affordable and reliable. With more than 90 GW installed worldwide, Siemens Gamesa manufactures, installs and maintains wind turbines, both onshore and offshore. The company's orders backlog stands at €23.6 billion. The company is headquartered in Spain and listed on the Spanish stock exchange (trading on the Ibex-35 index).

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**Company announcement
No. 21/2019**

Ørsted selected as preferred bidder for New York offshore wind farm

The New York State Energy Research and Development Authority (NYSERDA) has selected Sunrise Wind to negotiate a 25-year offshore wind renewable energy certificate (OREC) for an offshore wind farm with a capacity of 880MW.

Sunrise Wind is a 50-50 partnership between Ørsted, the world's leading offshore wind developer, and Eversource, New England's largest energy company.

As part of its winning proposal for New York, Sunrise Wind will bring economic development by constructing an operations and maintenance hub in Port Jefferson, Long Island, investing in additional port infrastructure upgrades and establishing offshore wind training programs in the state of New York. Furthermore, Sunrise Wind is exploring transmission partnerships with the New York Power Authority (NYPA) and the leading New York utility Con Edison.

Subject to contract signing and Ørsted's and Eversource's final investment decision, the wind farm is expected to be operational in 2024.

Martin Neubert, Executive Vice President and CEO of Ørsted Offshore, says:

"New York State has set an ambitious goal to be 100% powered by clean energy by 2040. We fully share that vision, and we're proud to bring more than two decades of offshore wind expertise to the state and to be fronting the offshore wind build-out in New York with a combined 1,000MW capacity via our South Fork and Sunrise Wind projects."

"Less than a year ago, we created the leading US offshore wind platform by merging the asset portfolios and competences of Deepwater Wind and Ørsted US. Our recent significant project wins in New Jersey and New York are proof of the strengths and quality of the combined organization."

Thomas Brostrøm, CEO of Ørsted US Offshore Wind and President of Ørsted North America, says:

"Sunrise Wind will contribute significantly to achieving governor Cuomo's bold and ambitious goal for New York's transition to renewable energy by supplying more than half a million New York homes with wind power. The offshore wind industry offers great opportunities for long-term industrial

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Company registration no.
(CVR no.) 36 21 37 28

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development, and Sunrise Wind will bring skilled jobs to the state during construction and throughout its operational lifetime.”

Sunrise Wind will be located 30 miles east of Montauk Point, Long Island, adjacent to Ørsted’s South Fork and Revolution Wind projects.

By taking a portfolio approach to their Northeast projects, comprising South Fork, Sunrise Wind and Revolution Wind with a total capacity of approx. 1.7GW to be built in 2022-2024, Ørsted and Eversource will be able to leverage significant procurement synergies and optimize the construction and operation of the project portfolio.

Ørsted and Eversource have signed a wind turbine contract with Siemens Gamesa for the joint venture’s Northeast project portfolio. Subject to Ørsted’s and Eversource’s final investment decision, all three offshore wind farms will be installing Siemens Gamesa’s 8.0MW turbines.

Ørsted has set up offices in New York City and Long Island and is currently developing New York State’s first offshore wind project, the South Fork Wind Farm off Long Island. Construction is planned to start in 2021, and the wind farm will be operational in 2022.

The information provided in this announcement does not change Ørsted’s previous financial guidance for the financial year of 2019 or the announced expected investment level for 2019.

About Ørsted US Offshore Wind

Ørsted has the largest offshore wind development capacity in the US and can deliver clean energy to the seven states on the US East Coast that have already committed to building a total of more than 20GW offshore wind capacity by 2035.

Ørsted owns and operates America’s first offshore wind farm, the 30MW Block Island Wind Farm, and is currently developing the following offshore wind projects with a total capacity of approx. 2.9GW:

Northeast cluster (owned 50-50 with Eversource)

- Sunrise Wind (880MW) will deliver power to New York. Expected commissioning: 2024.
- Revolution Wind (704MW) will deliver power to Rhode Island (400MW) and Connecticut (304MW). Expected commissioning: 2023.
- South Fork (130MW) will deliver power to Long Island, New York. Expected commissioning: 2022.

Mid-Atlantic cluster

- Ocean Wind (1,100MW) will deliver power to New Jersey. Expected commissioning: 2024.
- Skipjack (120MW) will deliver power to Maryland. Expected commissioning: 2022.

Ørsted sites which can be developed for future offshore wind projects:

Northeast cluster (owned 50-50 with Eversource)

- Bay State Wind: Approx. 2GW offshore wind site off the coast of Massachusetts.
- Two lease areas off the coast of New England which contain the potential for a further 0.5GW.

Mid-Atlantic cluster

- Ocean Wind: Approx. 1.4GW offshore wind site off the coast of New Jersey.
- Garden State Offshore Energy: An up to 1.2GW offshore wind site off the coasts of Delaware and New Jersey. Owned in a 50-50 joint venture with PSEG.

In addition, Ørsted is constructing two 6MW wind turbines for Dominion Energy's Coastal Virginia Offshore Wind Project with a potential for a further 2GW offshore wind development.

As the world leader in offshore wind, Ørsted operates more than 1,150 offshore wind turbines. Ørsted has installed approx. 5.6GW offshore wind capacity and has a further 4.3GW under construction. In addition, Ørsted has secured the rights to build approx. 2.9GW offshore wind in the US by 2024 including the 880MW announced today, approx. 1.1GW in Germany by 2025, and approx. 0.9GW in Taiwan by 2025. It is Ørsted's ambition to have installed a total of 15GW offshore wind capacity world-wide by 2025.

The Ørsted vision is a world that runs entirely on green energy. Ørsted develops, constructs and operates offshore and onshore wind farms, bioenergy plants and innovative waste-to-energy solutions and provides smart energy products to its customers. Headquartered in Denmark, Ørsted employs 6,200 people. Ørsted's shares are listed on Nasdaq Copenhagen (Orsted). In 2018, the group's revenue was DKK 76.9 billion (EUR 10.7 billion). For more information on Ørsted, visit orsted.com or follow us on Facebook, LinkedIn, Instagram and Twitter.

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