

Press release

Wind power with vision: World's first turbine with CO₂-reduced steel tower and recyclable rotor blades installed at Denmark's largest offshore wind farm

- **Delivery of 1.1-gigawatt Thor project on track, with turbine installation underway**
- **36 CO₂-reduced steel towers and 120 recyclable rotor blades from Siemens Gamesa to be installed**
- **When completed in 2027, Thor capable to power equivalent of more than one million Danish homes**

Essen, 9 April 2026

RWE has installed the world's first offshore wind turbine featuring a CO₂-reduced steel tower and recyclable rotor blades. This marks a major milestone in the construction of the 1.1-gigawatt [Thor offshore wind farm](#) off Denmark's west coast and represents a pioneering step towards further improving the sustainability performance of offshore wind. In total, 72 wind turbines, each with a capacity of up to 15 megawatts, will be installed by the end of 2026. Half of them will be equipped with steel towers produced with a lower carbon footprint, while 40 turbines will feature a total of 120 recyclable rotor blades.

Sven Utermöhlen, Chief Executive Officer RWE Offshore Wind: "Offshore wind already has one of the lowest life-cycle carbon footprints of power generation technologies. At RWE, our ambition is to go even further. By using towers produced with greener steel and recyclable rotor blades, we are further reducing the carbon footprint and taking a significant step towards fully circular offshore wind."

Marc Becker, Senior Vice President of Siemens Gamesa Offshore: "This world-first is about moving circularity from promise to practice. RecyclableBlade is designed to enable composite materials to be recovered and recycled, addressing a growing end of life challenge. Together with GreenerTower, which lowers the carbon footprint of steel and reduces overall turbine emissions by around 20 percent, we are proving that sustainability can be delivered at scale in offshore wind, with safety, quality and certainty."

Sustainable features: CO₂-reduced steel towers and recyclable blades

RWE is the first company worldwide to use Siemens Gamesa's GreenerTower. The tower plates are made from steel that produces at least 63 percent lower CO₂ emissions than conventional steel. The certified production process limits emissions by using renewable-powered furnaces and scrap steel, for example. In addition, Thor will feature Siemens Gamesa's recyclable rotor blades. Thanks to an innovative resin, the composite materials in these blades can be separated and reused, for instance in new casting applications in the automotive or

consumer goods industries. RWE is already using recyclable rotor blades at its offshore wind farms [Kaskasi](#) in Germany and [Sofia](#) in the UK.

Thor progressing according to plan

RWE is on track with the construction of Denmark's largest offshore wind farm. Last year, the offshore substation and all the foundations were successfully installed. Turbine installation is well underway, and [Thor recently delivered electricity to the Danish grid for the first time](#).

When fully operational in 2027, Thor will be capable of producing enough green electricity to supply the equivalent of more than one million Danish households. The wind farm's operations and maintenance plan envisages creating 50 to 60 local jobs at a [new RWE service building](#) which was officially opened in March at the Port of Thorsminde.

Thor offshore wind farm is a joint project between RWE (51%) and Norges Bank Investment Management (49%). RWE is in charge of construction and operations throughout the lifecycle of Thor.

Leading global player in offshore wind

RWE already has 18 offshore wind farms in operation globally, including Rødsand 2, located south of the Danish island of Lolland. In addition to Thor in Denmark, the company is currently building three major offshore wind farms: the [Sofia](#) offshore wind farm (1.4 GW) in the UK, the [Nordseecluster](#) (1.6 GW, RWE share: 51%) off the German coast and [OranjeWind](#) (795 MW, RWE share: 50%) in the Netherlands.

For more information about RWE's Thor offshore project, please visit thor.rwe.com.

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(Credit: RWE / photographer: Niklas Marc Heinecke)

RWE

RWE is leading the way to a modern energy world. With its investment and growth strategy, RWE is contributing significantly to the success of the energy transition and the decarbonisation of the energy system. Around 20,000 employees work for the company in almost 30 countries worldwide. RWE is one of the leading companies in the field of renewable energy. RWE is investing billions of euros in expanding its generation portfolio, in particular in offshore and onshore wind, solar energy and batteries. This is perfectly complemented by its global energy trading business. Thanks to its integrated portfolio of renewables, battery storage and flexible generation, as well as its broad project pipeline of possible new builds, RWE is well positioned to address the growing global demand for electricity, particularly driven by further electrification and artificial intelligence. RWE is decarbonising its business in line with the 1.5-degree reduction pathway and will phase out coal by 2030. RWE will be net zero by 2040. Fully in line with the company's purpose - Our energy for a sustainable life.

Forward-looking statements

This press release contains forward-looking statements. These statements reflect the current views, expectations, and assumptions of management, and are based on information currently available to management. Forward-looking statements do not guarantee the occurrence of future results and developments and are subject to known and unknown risks and uncertainties. Actual future results and developments may deviate materially from the expectations and assumptions expressed in this document due to various factors. These factors primarily include changes in the general economic and competitive environment. Furthermore, developments on financial markets and changes in currency exchange rates as well as changes in national and international laws, in particular in respect of fiscal regulation, and other factors influence the company's future results and developments. Neither the company nor any of its affiliates undertakes to update the statements contained in this press release.

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