

Press release

Wind power with vision: RWE to install recyclable rotor blades at Thor offshore wind farm to drive sustainability

- **40 out of 72 turbines to be equipped with worldwide-first recyclable rotor blades from Siemens Gamesa, offshore installation expected in 2026**
- **First wind farm globally to install CO₂-reduced steel towers from Siemens Gamesa**
- **Thor to supply green electricity to more than one million Danish households**

Copenhagen, 14 June 2023

RWE is once again driving forward sustainability in wind power by using the worldwide-first recyclable rotor blades at its Danish offshore wind farm Thor. 40 of the 72 (SG 14-236 DD) wind turbines will be equipped with recyclable rotor blades manufactured by Siemens Gamesa. Installation at sea is expected in 2026. In addition, RWE is piloting CO₂-reduced steel towers at half of the project's turbines. The GreenerTower from Siemens Gamesa will ensure a CO₂ reduction of at least 63 percent in the tower steel plates compared to conventional steel.

Sven Utermöhlen, CEO RWE Offshore Wind: "At RWE we are fully committed to working towards circularity and net-zero emissions. We are already testing the world's first recyclable wind turbine blades under real-life conditions at our German offshore wind farm Kaskasi and we have decided to install them at Sofia. By using these rotor blades at our Thor offshore wind farm, too, RWE continues lead the way towards a circular offshore sector. And we are doing even more. We are the first developer in the world to pilot Siemens Gamesa's CO₂-reduced steel towers, which significantly reduce the carbon footprint of wind turbines. This is the right direction for the future of our sector, which has sustainability at its core."

Rotor blades can be recycled at the end of their life cycle

While many components of a wind turbine already have established recycling practices, recycling the composite materials used in wind turbine blades has been more challenging. Now, for the first time, thanks to a new type of resin with a special chemical structure the composite materials used in Siemens Gamesa's recyclable blades can be separated again. This process ensures that the properties of the individual materials remain intact so that they can be reused in new casting applications, for example in the automotive industry or in consumer goods.

Maximilian Schnippering, Head of Sustainability at Siemens Gamesa: "More than one million tons of blade material are expected to be installed globally every year. Our recyclable blades can avoid those materials ending their life in a landfill and give them a second use."

Thor to supply green electricity to more than one million Danish households

RWE will build the Thor wind farm in the Danish North Sea, approximately 22 kilometres from Thorsminde on the west coast of Jutland. With a planned capacity of more than 1,000 MW, Thor is Denmark's largest offshore wind farm to date. Once fully operational, which is planned no later than the end of 2027, the wind farm will be capable of producing enough green electricity to supply the equivalent of more than a million, or one in three Danish households. In 2010, RWE has already completed and now operates the Danish Rødsand 2 offshore wind farm, which is located south of the Danish island of Lolland.

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

For further inquiries:

Sarah Knauber
Spokesperson
RWE Offshore Wind
T +49 201 5179 5404
E sarah.knauber@rwe.com

Picture material for media use is available at the [RWE Media Centre](#).

Note to editors:

Three turbines at RWE's [Kaskasi](#) wind farm off the German coast are equipped with Siemens Gamesa RecyclableBlades. The wind farm has been in operation since the end of 2022. The recyclable rotor blades will also be installed on 44 of the 100 turbines at [Sofia](#) wind farm, which RWE is currently constructing off the northeast coast of the UK.

RWE

RWE is leading the way to a green energy world. With an extensive investment and growth strategy, the company will expand its powerful, green generation capacity to 50 gigawatts internationally by 2030. RWE is investing more than €50 billion gross for this purpose in this decade. The portfolio is based on offshore and onshore wind, solar, hydrogen, batteries, biomass, and gas. RWE Supply & Trading provides tailored energy solutions for large customers. RWE has locations in the attractive markets of Europe, North America, and the Asia-Pacific region. The company wants to phase out coal by 2030. RWE employs around 19,000 people worldwide and has a clear target: to get to net zero by 2040. On its way there, the company has set itself ambitious targets for all activities that cause greenhouse gas emissions. The Science Based Targets initiative has confirmed that these emission reduction targets are in line with the Paris Agreement. Very much in the spirit of 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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