
# Leading the way towards competitive floating wind

## RWE's experience in deploying offshore wind, combined with its in-house engineering expertise and global approach means it is particularly well placed to become a leader in floating wind.

**How does floating wind work?**
Floating wind uses the same turbines as conventional 'seabed-fixed' offshore wind but they are deployed on top of floating structures that are secured to the seabed with mooring lines and anchors. Electricity is transmitted to shore via subsea cables. As a less mature technology than seabed-fixed, floating wind is currently more expensive but costs are expected to fall rapidly so that it should be cost competitive by 2030.

**Our ambition**
RWE's ambition is to safely develop, build and operate cost-competitive, commercial-scale projects around the world. To achieve this, we are implementing a world-class capability development programme, including extensive supply chain engagement, participation in leading joint industry projects and active involvement in three high-profile demonstration projects.

**We have competences at all stages of the offshore wind value chain**
We have extensive experience in developing, building and operating offshore wind farms – both independently and together with partners. We have been involved in the deployment of more than 5 GW (total installed capacity, 2.5 GW pro rata capacity) of offshore wind capacity in Europe and have further offshore development projects worldwide.

**Supply chain engagement**
As one of the world's leading renewable energy companies, RWE has particular strong relationships with companies throughout the global supply chain. We are able to leverage these relationships through detailed engagement programmes to understand specialist skills, identify capability gaps and explore opportunities for closer collaboration.

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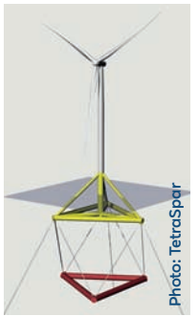
## Our demonstrator portfolio

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**TetraSpar Demonstrator (Norway)**
**COD 2021: working in partnership with Stiesdal Offshore Technologies, Shell and TEPCO to deploy a tubular steel structure with a suspended keel**


2

**DemoSATH (Spain)**
**COD 2022: working with Saitec to deploy a concrete twin-hull barge structure with a single point of mooring**


3

**New England Aqua Ventus (USA)**
**COD 2024: working with Diamond Offshore Wind and the University of Maine to deploy a concrete semi-submersible structure**


The projects are already giving us unique insights into the particular challenges and opportunities of different structure types, materials, mooring systems and installation methodologies. The lessons we are learning from these activities will help us reduce the cost and risk of our commercial-scale projects in the future.

**Joint industry projects**

RWE is actively collaborating with other developers in joint industry projects to address shared issues and overcome industry-level barriers.

- **Carbon Trust Floating Wind Joint Industry Project:** RWE was a founding member of this pioneering project, which was set up in 2016 and now involves 17 leading developers working together to investigate the challenges and opportunities for the deployment of large-scale commercial floating wind farms
- **Offshore Renewable Energy Catapult's Floating Wind Centre of Excellence:** RWE is an active member of this project, which was set up in 2020 to accelerate the build-out of floating projects, create opportunities for the UK supply chain, and drive innovations in manufacturing, installation and O&M

RWE is also involved in more focused research projects addressing specific technical issues. This includes the WINDMOOR research project, led by SINTEF Ocean and the Norwegian University of Science and Technology, which is focused on improving the design and monitoring of mooring systems.

**About RWE Renewables**

RWE Renewables, the new subsidiary of the RWE group, has been one of the world's leading players since its launch. The company has onshore and offshore wind farms, photovoltaic plants and battery storage facilities with a combined capacity of approximately 9 gigawatts. RWE Renewables is driving the expansion of renewable energy in more than 15 countries on four continents. In the period from 2020 until the end of 2022, the company aims to expand its renewables portfolio to a net capacity of more than 13 gigawatts, involving an investment of €5 billion net. Beyond this, the company plans to further grow in wind and solar power. The focus is on the Americas, the core markets in Europe and the Asia-Pacific region.

## Let's talk about floating wind

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