

17 September 2020

Press Release >

EnBW-aerodyn research project:

Nezzy² wind turbine learns to swim in the Baltic Sea

Stuttgart/Hamburg/Greifswald. The Nezzy² floating wind turbine is being tested at sea for the first time in Greifswald Bay. EnBW and aerodyn engineering, a north German engineering company, have joined forces to trial this new offshore technology. The 18 metre tall, 1:10-scale prototype consists of two wind turbines on a floating platform made of precast concrete elements.

Until now, offshore wind turbines have been anchored to fixed foundations in the seabed at maximum depths of 50 metres. Floating turbines have the advantage that they can be deployed in deeper waters. "The potential is huge. Looking ahead, the new technology will open up new countries and marine areas with greater water depths for offshore wind power," explains Hannah König, head of wind and marine technology at EnBW. As well as supporting their development, EnBW also plans to deploy the floating turbines itself. "France especially is an attractive market for us," says König.

"We are confident that Nezzy² will enable the international offshore wind industry to generate wind power at sea even more cost-effectively in future. In EnBW, we have gained a partner for our test with ten years of experience in the construction and operation of offshore wind farms," says aerodyn Managing Director Sönke Siegfriedsen.

Three months, Nezzy² has been successfully tested in a flooded gravel pit near Bremerhaven. Now, the turbine is floating 650 metres off Vierow port, where it is anchored with lines to the sea floor. After the approval by the responsible authority the two companies will examine how the floating turbine performs in wind and wave conditions. If the Baltic Sea trials are successful, a full-scale version of Nezzy² will be put through its paces in China in late 2021 or early 2022.



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About EnBW

EnBW plans that half of its generation portfolio will consist of renewables by the end of 2025. In wind power, the company provides design, construction, operation, maintenance and repair from a single source. It aims to operate onshore and offshore wind turbines with a total output of at least 4,500 megawatts by 2025.

EnBW is one of the largest energy supply companies in Germany and Europe, with a workforce of 23,000 employees. It supplies electricity, gas and water together with infrastructure and energy-related products and services to around 5.5 million customers.

About aerodyn

aerodyn engineering gmbh was established in 1997 to develop innovative wind turbine concepts. Over the past decade, it has developed the SCD wind turbine technology and the Nezy/Nezy² floating foundation technology. Due to this diverse development pipeline and longstanding market experience, aerodyn has wide-ranging expertise spanning all stages from development to type approval to production. Aerodyn's business activities include licensing and supporting licensees in order to ensure full transfer of knowhow to implement the Nezy floating foundation technology on local markets.

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