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EnBW - aerodyn research project: Floating wind turbine “Nezzy²” passes its second test in the Baltic Sea

Stuttgart/Hamburg/Greifswald. The floating wind turbine Nezzy² has successfully passed its two-month test in the Bay of Greifswald. The 18-metre-tall prototype built on a 1:10 scale consists of two wind turbines on a floating platform and is being tested jointly by the north German company aerodyn engineering and EnBW.

In the Bay of Greifswald, 180 sensors were used in 30 different measurements to establish how Nezzy² behaves when exposed to different wind directions and speeds as well as wave heights and directions. Nezzy² even withstood a storm tide in mid-October. Scaled up to the later true size of Nezzy², the wave and wind conditions were equivalent to a category four to five hurricane with waves reaching heights of up to 30 metres. “For one and a half days, we were able to observe how Nezzy² remained stable in the water in extreme weather conditions. Our tests have shown that our model is now ready to be tested in the sea on a full-size scale,” says aerodyn managing director Sönke Siegfriedsen. Prior to the test in the Baltic Sea, Nezzy² was tested in a flooded gravel pit in Bremerhaven.

Until now, offshore wind turbines have been anchored to the seabed with solid foundations at a maximum water depth of 50 metres. With floating wind turbines, new countries and sea regions at greater depths can now be considered. “We want to use the floating wind turbines ourselves for our international offshore projects. That is why we are really delighted that this technology can now be further developed with our support,” explains Hannah König, head of wind and maritime technology at EnBW.

The 1:10 scale model has now been dismantled. Over the coming weeks, the recorded data will be evaluated. The findings will then be incorporated in the design of the 1:1 scale model, which is set to be tested in China at the end of 2021 or start of 2022.



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About EnBW

EnBW Energie Baden-Württemberg AG is one of the largest energy supply companies in Germany and supplies electricity, gas, water and energy solutions and energy industry services to around 5.5 million customers with a workforce of more than 23,000 employees. In the area of wind energy, the company offers planning, construction, operation, maintenance and servicing from one source. The goal is to be operating onshore and offshore wind power plants with a total output of 4,500 megawatts by 2025.

About aerodyn

aerodyn engineering gmbh was established in 1997 to produce innovative wind turbine concepts. Over the past decade, the company has developed the SCD wind turbine technology and the Nezy/Nezy² floating foundation technology. As a result of such diverse developments and the company's long-standing market experience, aerodyn possesses extensive expertise ranging from development to licensing and production. aerodyn grants licences and supports licensees in order to guarantee complete knowledge transfer when implementing the nezy floating foundation technology on local markets.

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