

## Press Release

# Iberdrola and 50Hertz sign construction agreement for Baltic Eagle offshore substation

*Contracts were signed last year with the consortium Iemants-Fabricom for the fabrication of all structural elements of the substation and with Heerema Marine Contractors for the installation works*

**Berlin, 18 May 2021.** Iberdrola and 50Hertz, the transmission system operator responsible for connecting the Offshore Windfarm to the grid, have signed an agreement to cooperate with regard to the construction, installation and commissioning of the offshore substation (OSS) for Baltic Eagle wind farm being developed in German waters of the [Baltic Sea](#).

The jointly used offshore substation will house the technical equipment collecting the electricity produced by the wind turbines and will connect to the onshore transmission grid in Lubmin.

Iberdrola has further awarded contracts to the joint venture Iemants-Fabricom, responsible for the manufacturing of all structural elements of the substation, and to marine contractor Heerema, who will transport and install the substation on the Baltic Eagle site. Siemens Gas and Power is responsible for the delivery of all main electrical equipment for Iberdrola's low-voltage part of the OSS.

The substation is made up of a foundation and a topside housing the transformers as well as electrical equipment. The four-legged steel jacket foundation weighs approximately 2,900 tonnes and will be fastened with two hammered piles at each leg. The topside consists of a closed multi-storey module of 5 decks with a total estimated net weight of around 4,250 tonnes.

Fabrication is already progressing at different locations in Europe and platform manufacturing has already started at Belgian yards. Sail out to the site is planned for 2022, while completion of the offshore installation and commissioning is expected to take place in 2023.

When the Baltic Eagle wind farm is connected to the grid, the wind turbines will deliver electricity via the inter-array cables to the offshore substation where it is then transformed from 66 kV to 220 kV and transmitted via two high voltage subsea cables across the 90 km distance to the landing point at Lubmin.

The substation is one of the key elements of the windfarm, tasked with collecting and exporting the entire electricity produced by 50 wind turbines –estimated to account for ca. 1.9 TWh per year. With this energy production it will be possible to sustainably meet the demand of 460,000 homes and to avoid the emission of 800,000 tonnes of CO<sub>2</sub> into the atmosphere each year.

The Baltic Eagle offshore wind farm is located northeast of the Rügen island off the Pomeranian coast in the Baltic Sea in a water depth of 40-45 meters. Iberdrola was awarded 476 MW of capacity during the transitional auction held in 2018.



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The wind farm will comprise 50 wind turbines of 9.525 MW capacity to be installed on monopile foundations and will cover an area of 40 km<sup>2</sup>. Commissioning is expected in 2024.

### A European project fostering industrialization and job creation

Iberdrola and 50Hertz once again confirm their commitment to the energy transition and to sustainable growth in the European Union with the creation of important jobs across the whole value chain while helping to reindustrialize and modernize shipyard facilities.

The combined capacity of 826 MW from Wikinger and Baltic Eagle offshore windfarms underline that investments in renewable energy help to establish sustainable industry with significant growth potential, coupled with the creation of high-quality jobs for German and European companies.

#### **About Iberdrola**

[Iberdrola](#) is one of the world's biggest energy companies, a leader in renewables, which is spearheading the energy transition to a low carbon economy. The group supplies energy to almost 100 million people in dozens of countries. It carries out renewables, networks and commercial activities in Europe (Spain, the United Kingdom, Portugal, France, Germany, Italy and Greece), the United States, Brazil, Mexico and Australia, and, as growth platforms, it is present in markets such as Japan, Ireland, Sweden and Poland, among others. With a workforce of more than 37,000 and assets in excess of €122.5 billion, in 2020, it achieved a turnover of €33 billion and a net profit of over €3.6 billion. The company contributes to sustain 400,000 jobs along its supply chain, with annual procurement of €14 billion. A benchmark in the fight against climate change, it has allocated more than €120 billion over the last two decades to building a sustainable energy model, based on sound environmental, social and governance (ESG) principles.

#### **About 50Hertz**

50Hertz operates the electricity transmission system in the north and east of Germany, which it expands as needed for the energy transition. Our extra high voltage grid has an electrical circuit length of about 10,490 kilometres, or the distance between Berlin and Rio de Janeiro. The 50Hertz control area covers the Länder of Brandenburg, Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt, and Thuringia, as well as the city states of Berlin and Hamburg. Within these regions, 50Hertz and its 1,300 employees ensure that 18 million people are supplied with electricity around the clock. 50Hertz is a forerunner in the field of secure integration of renewable energy: in our grid area, more than 60 percent of the consumed electricity is generated from renewable sources; by 2032, it is our goal to securely integrate 100 percent renewable energy into the grid and system over the course of a year. The shareholders of 50Hertz are the Belgian holding Elia Group (80 percent), which is listed on the stock exchange, and the KfW bank group with 20 percent. As a European TSO, 50Hertz is a member of the European Network of Transmission System Operators for Electricity (ENTSO-E).

More information: Live data from our network is available in the 50Hertz app for Apple, Android and Windows. Information and download links can be found under [50hertz.com/app](https://www.50hertz.com/app).

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