RWE

Press release

RWE commissions Sunfire and Bilfinger to build third electrolyser plant for GET H2 Nukleus in Lingen

- **Sunfire to supply 100-megawatt alkaline electrolyser for 3rd Nukleus construction phase**
- **As engineering service provider, Bilfinger is constructing the auxiliary and ancillary systems**
- **Plant to increase capacity of Nukleus to 300 megawatts / commissioning planned for 2027**

Essen, 11 September 2024

As part of the GET H2 Nukleus project, RWE is building a 300-megawatt plant for producing green hydrogen on the site of its gas-fired power plant in Lingen. Two of the three electrolysers with a capacity of 100 megawatts (MW) each which are due to be installed there had already been ordered by RWE from Linde Engineering and the electrolyser manufacturer ITM Power in 2022. Now RWE has commissioned Sunfire and Bilfinger to build the third construction phase. The contract amount is in the low hundred-million-euro range.

Sunfire is to supply a 100-MW alkaline electrolyser. The company is already a contract partner of RWE. A 10-MW alkaline electrolyser by the Dresden company is part of a pilot plant on the site of the Emsland gas-fired power plant, where RWE is currently testing two electrolysis technologies (PEM and alkaline).

Bilfinger will be the solution partner for the integration of electrolysis. To this end, Bilfinger is taking on extensive planning tasks as well as the delivery and installation of the ancillary process technology systems such as water and hydrogen treatment, compression and control technology.

The contracts were signed just days after the final investment decision on RWE's largest hydrogen project to date was made. The green light to build the plant was given after funding had been granted by the German government and the State of Lower Saxony.

Dr Sopna Sury, COO Hydrogen at RWE Generation SE: "The construction work for the first 200 megawatts of electrolyser capacity is progressing well. We have now contracted Sunfire and Bilfinger to deliver the elements for the next phase of the project, which is to be commissioned in 2027. This is sending out a strong signal to companies that are planning to switch their processes to green hydrogen. With the pipeline and storage infrastructure of other GET H2 partners being built in parallel, we will soon be able to supply green hydrogen in line with market requirements and in a structured manner."

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Nils Aldag, CEO Sunfire: "RWE relies on Sunfire as an established electrolysis specialist for the realisation of large-scale industrial projects. We are delighted about this renewed vote of confidence and look forward to further expanding our proven partnership with RWE. Sunfire is one of the few companies in the world already realising electrolysers on an industrial scale. With an order backlog of over 800 megawatts, we are a favoured partner for large-scale projects."

Dr Thomas Schulz, Bilfinger Group CEO: "The additional electrolysis plant in Lingen is another key building block in the transformation of our energy system towards efficient and sustainable technologies. We are very pleased about the cooperation with RWE and the opportunity to make a decisive contribution to the successful implementation of this forward-looking plant with our expertise in the field of hydrogen."

As part of the GET H2 Nukleus project, RWE collaborates primarily with the grid operators Nowega and OGE to connect its production facilities for green hydrogen to industrial consumers in Lower Saxony and North Rhine-Westphalia. In 2025, the energy company is to commission its first 100-MW electrolyser. The capacity of the plants is to be expanded in 100-MW increments to 300 MW by 2027.

From 2027, hydrogen from Lingen will also be able to be fed into a hydrogen cavern storage facility being built by RWE Gas Storage West in Gronau-Epe. In this way, green hydrogen can be supplied flexibly in line with demand from industrial consumers.

Companies can find more information on how to procure green hydrogen at Buying green hydrogen | RWE.

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An illustration of the GET H2 Nukleus electrolyser plant for media use (credit: RWE) is available at the RWE Media Centre. The left part of the building will house the Sunfire electrolyser and the ancillary systems by Bilfinger.

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RWE
RWE is leading the way to a green energy world. With its investment and growth strategy Growing Green, RWE is contributing significantly to the success of the energy transition and the decarbonisation of the energy system. Around 20,000 employees work for the company in almost 30 countries worldwide. RWE is already one of the leading companies in the field of renewable energy. Between 2024 and 2030, RWE will invest 55 billion euros worldwide in offshore and onshore wind, solar energy, batteries, flexible generation, and hydrogen projects. By the end of the decade, the company's green portfolio will grow to more than 65 gigawatts of generation capacity, which will be perfectly complemented by global energy trading. RWE is decarbonising its business in line with the 1.5-degree reduction pathway and will phase out coal by 2030. RWE will be net-zero by 2040. Fully in line with the company's purpose - Our energy for a sustainable life.

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