

## Press release

### GET H2 Nukleus: Authorities approve construction and operation of large electrolyser plant in Lingen

- **First hydrogen generation plant of this size in Germany**
- **Reference for future H<sub>2</sub> projects: Approval procedure took only seven months**
- **Wait for IPCEI funding to be granted continues**

Essen, 06 September 2023

The GET H2 Nukleus hydrogen project has passed an important milestone. The relevant authority in Oldenburg has granted permission for the construction and operation of the first two 100-Megawatt (MW) electrolysers on the site of the RWE gas-fired power plant in Lingen to the operating company “Nukleus Green H2”, a subsidiary of RWE.

The 200-MW plant will be able to produce up to 35,000 tonnes of green hydrogen per year. The hydrogen is intended to enable industrial companies to significantly reduce their carbon emissions. The electrolyser project in Lingen is the first production plant for hydrogen in Germany of this size.

Seven months after the Oldenburg Trade Inspectorate confirmed the completeness of the submitted 2,250-page application document, it now issued the certificate of approval.

**Sopna Sury, COO Hydrogen at RWE Generation SE:** “The approval for our plant is the result of constructive and intensive work, not least on the part of the authorities involved, who never had to examine a hydrogen project of this size before. Seven months from submitting the complete application to approval is a reference value that gives rise to optimism for the ramp-up of the hydrogen economy in Germany.”

In Germany, approval on the basis of the Federal Emission Control Act is a prerequisite for such large-scale plants being built and operated. All relevant potential effects, e.g. emissions, must be examined thoroughly in the process. The 78-page approval document issued by the authority specifies exactly which technical, organisational and environmental requirements must be met during construction and operation.

The Lingen site plays a key part in RWE’s hydrogen strategy. There, the company wants to install hydrogen generating capacities of 300 megawatts in 100-megawatt increments by 2027 as

# RWE

part of the GET H2 project. At the end of 2023, RWE will already commission a 14-megawatt pilot plant in Lingen to test the use of two electrolyser technologies (PEM and pressurised alkali) that are being considered for future hydrogen projects.

GET H2 Nukleus is among the large-scale hydrogen projects that were nominated in 2021 by the German government and the federal states for funding under the “Important Projects of Common European Interest” (IPCEI) programme. However, as of yet, a binding commitment for funding has not been made. In January, the operating company nonetheless ordered the first two 100-megawatt electrolysers to ensure that the planned commissioning dates can still be achieved should funding be granted.

RWE is a one-stop shop for delivering hydrogen solutions: from the generation of green electricity and the expertise for producing and storing green hydrogen to energy trading, which ensures that the fuel is provided to industrial customers as required. Currently, RWE is active in more than 30 hydrogen projects in collaboration with strong partners.

You can find an overview of the largest hydrogen projects with RWE involvement at <https://www.rwe.com/en/research-and-development/hydrogen-projects/>

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## RWE

RWE is leading the way to a green energy world. With an extensive investment and growth strategy, the company will expand its powerful, green generation capacity to 50 gigawatts internationally by 2030. RWE is investing more than €50 billion gross for this purpose in this decade. The portfolio is based on offshore and onshore wind, solar, hydropower, hydrogen, batteries, biomass, and gas. RWE Supply & Trading provides tailored energy solutions for large customers. RWE has locations in the attractive markets of Europe, North America, and the Asia-Pacific region. The company wants to phase out coal by 2030. RWE employs around 19,000 people worldwide and has a clear target: to get to net zero by 2040. On its way there, the company has set itself ambitious targets for all activities that cause greenhouse gas emissions. The Science Based Targets initiative has confirmed that these emission reduction targets are in line with the Paris Agreement. Very much in the spirit of the company's purpose: Our energy for a sustainable life.

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