

## SUNFIRE AND RWE CELEBRATE THE LAUNCH OF GREEN HYDROGEN PRODUCTION IN LINGEN

Federal Minister for Economic Affairs Robert Habeck and Lower Saxony's Minister President Stephan Weil attended the inauguration of RWE's pilot electrolysis plant in Lingen. A key component of the plant is Sunfire's 10 MW pressurized alkaline electrolyzer.

**Lingen, August 12, 2024** – Lingen has become RWE's first hydrogen site, with Sunfire's 10 MW pressurized alkaline electrolyzer playing a crucial role. In the presence of Federal Minister for Economic Affairs Robert Habeck, Lower Saxony's Minister President Stephan Weil, Lower Saxony's Minister for Environment, Energy, and Climate Protection Christian Meyer and Sunfire CEO Nils Aldag, RWE officially commissioned its pilot electrolyzer plant. By 2027, Lingen is set to become one of the largest hydrogen production sites in Germany.

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### *RWE Realizes Project with German Electrolysis Specialist Sunfire*

RWE has installed a total of 14 MW of electrolysis capacity at the Emsland gas-fired power plant, making it one of the largest operational electrolyzer plants in Germany. For the pressurized alkaline electrolyzer, RWE has chosen the German electrolysis specialist Sunfire. In Lingen, Sunfire's 10 MW plant produces green hydrogen on an industrial scale. Powered by renewable energy, it can produce up to 200 kilograms of green hydrogen per hour. Through this project, both parties are gaining groundbreaking insights into industrial-scale green hydrogen production.

**Sopna Sury, COO Hydrogen of RWE Generation:** "In Sunfire, we've partnered with a strong German electrolyzer manufacturer. Sunfire's pressurized alkaline electrolyzers are a key component of the plant where RWE is laying the groundwork for industrial-scale green hydrogen production in Lingen. The plant will provide us with valuable insights for deploying this technology in future large-scale hydrogen production projects."

**Nils Aldag, Sunfire CEO:** "Our partners are facing enormous decarbonization challenges – fast solutions and long-term planning security are crucial. Sunfire's pressurized alkaline electrolyzers provide the right answer. With our 10 MW plant, we are making an important contribution to the Lingen hydrogen site and are collaborating closely with RWE, a renowned industrial partner. Together we are gaining valuable experiences for the realization of future large-scale projects."

### *Lingen to Become a Major Hydrogen Site*

The commissioning of the pilot plant marks the starting point of RWE's expansion of the Lingen site into one of the most important hydrogen hubs in Germany. In just a few years, one of the largest electrolysis plants in Europe is expected to go into operation in Lingen. A 100 MW electrolysis plant is scheduled to begin operations by 2025, with an expansion to 300 MW planned by 2027.



### *Sunfire Offers a Powerful Technology Combination*

The Dresden-based electrolysis company Sunfire offers a unique and powerful combination of two highly complementary and differentiated technologies: Pressurized Alkaline electrolysis and high-temperature SOEC electrolysis. Both of Sunfire's technologies are being utilized in Lingen. In addition to the 10 MW alkaline plant, Sunfire's SOEC electrolyzer has been producing hydrogen at the RWE Emsland gas-fired power plant site since 2023. With an output of 250 kW, it is part of the TransHyDE project "GET H2 Nukleus," where nine project partners are investigating how hydrogen can be safely and reliably transported and stored through pipelines.

### About Sunfire

Sunfire is a global leader in the production of industrial electrolyzers based on pressurized alkaline and solid oxide (SOEC) technologies. With its electrolysis solutions, Sunfire is addressing a key challenge of today's energy system: Providing renewable hydrogen and syngas as climate-neutral substitutes for fossil energy. Sunfire's innovative and proven electrolysis technology enables the transformation of carbon-intensive industries that are currently dependent on fossil-based oil, gas, or coal. The company employs more than 650 people located in Germany and Switzerland.

For more information visit <http://www.sunfire.de/>