

Stepping into the hydrogen age

RWE is involved in numerous hydrogen projects in Germany, the Netherlands and the UK.

"Hydrogen is a key component of the energy transition. We aim to play a leading role in this developing future market as a partner to industry."

Dr. Sopna Sury, COO Hydrogen,
RWE Generation SE



© André Looks, RWE

Strong expertise along the entire value chain



More information about hydrogen at RWE is available on our website!
www.rwe.com/hydrogen

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RWE

Everyone is talking about green hydrogen. We make it.

Green hydrogen helps companies lower their carbon emissions. That's why we're working on numerous projects to drive transformation in Europe.



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Green hydrogen - a key to the energy transition

From steel production to refineries to mobility – the demand for clean energy continues to grow. We are already forging ahead with the future technology of hydrogen at full speed. RWE has the necessary knowledge and extensive experience to develop hydrogen projects in many countries.

Our mission

RWE's goal is clear: to be carbon-neutral by 2040. And green hydrogen is a key to this – for industry and transport, electricity.

Advantages of green hydrogen through electrolysis:

01 Clean energy

Nearly no harmful emissions are produced during production and use – good for the climate.

02 Safe storage and transportation

Hydrogen contributes to energy supply security by enabling continuous, reliable supply and long-term storage.

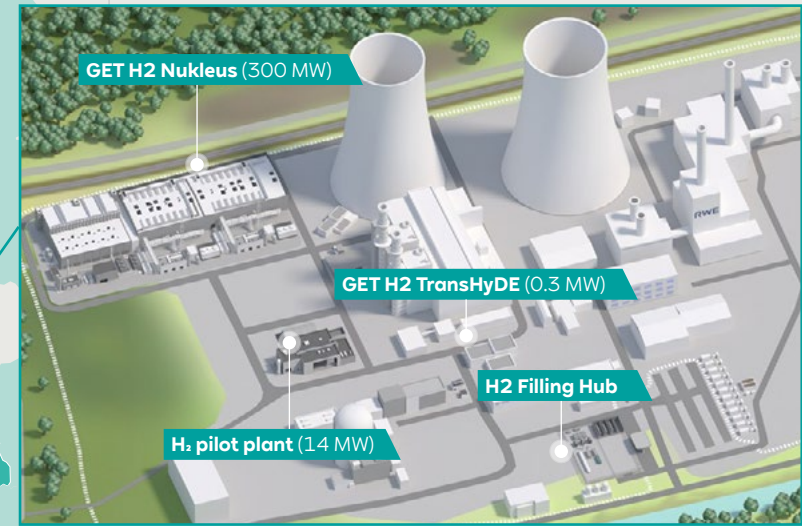
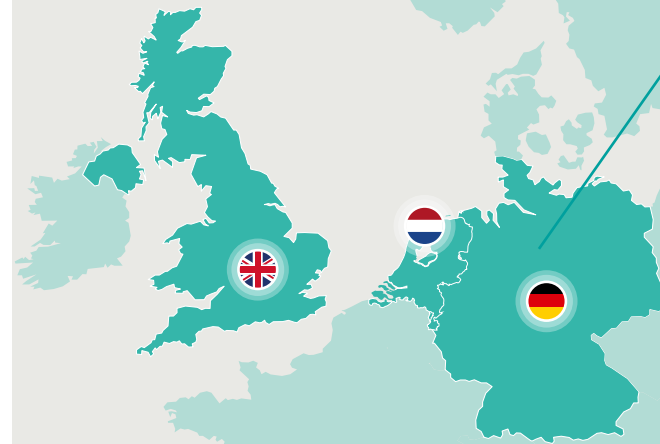
03 Flexible use

It can be used as an energy source as well as a raw material in industry.

04 Use of existing infrastructure

Parts of the current gas network can continue to be used.

Selected hydrogen development projects



H₂ pilot plant (14 MW) Test production since 2024		GET H2 TransHyDE (0.3 MW) First H ₂ production successful end of 2023	
GET H2 Nukleus (300 MW) IPCEI funding granted; licences for construction and operation received; Step-by-step commissioning between 2025 and 2027		H2 Filling Hub H ₂ refuelling facility and filling station to go into operation in 2025	
Pembroke Green Hydrogen (105 MW)		Grangemouth Green Hydrogen (105 MW)	
Eemshydrogen (50 MW)		OranjeWind (100 MW)	

For 50 years, RWE in the Emsland region has been known for energy and innovation



Emsland in Lower Saxony

- RWE's pioneering hydrogen site
- Supporting development and operation throughout the entire value chain



Hydrogen infrastructure and technology

- Electrolysis plants for industrial-scale hydrogen production
- Use of hydrogen storage to supplement security of supply



Contributing to climate goals

- Goal: Green hydrogen throughout the value chain
- Supporting industry and mobility with their climate targets



RWE supplies green hydrogen