

RWE successful in National Grid Pathfinder 3 competition

RWE

Helping to regulate and stabilise the energy supply grid

Synchronous condenser

Located
Pembroke Net Zero Centre
to support decarbonisation

Operational
Summer 2025

- Building capacity**
Part of National Grid's requirement for new stability services
- Voltage stability**
Ensuring no grid overloads or blackouts, helping support renewable energy growth
- Sustainable**
No emissions or water use needed

Energy source → **Stability provider** (Synchronous condenser) → **Electricity grid**

PNZC
RWE's Pembroke Net Zero Centre
Innovating for decarbonisation
in South Wales

- **New asset to be built at RWE’s Pembroke site as part of the decarbonization hub “PNZC”**
- **This solution will be essential to support grid stability and a decarbonised grid**

Swindon, 14 December 2022

RWE, one of the UK’s leading electricity generators, has been successfully awarded a contract by the UK Electricity System Operator (ESO), through National Grid’s Pathfinder 3 competition.

The programme is designed to help ensure the stability of the electricity network in targeted regions across England and Wales, enabling greater volumes of renewable energy projects to be connected to the grid in the future, as the UK continues to decarbonise.

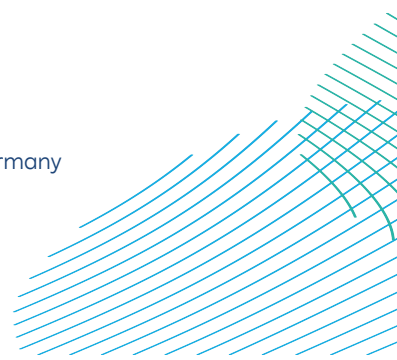
Under the contract, RWE will construct a specialist unit, called a Synchronous Condenser¹, which will be the first of its kind that the company has built in the UK. The unit will be located at RWE’s existing Pembroke power station site in South Wales, and is expected to start construction in 2023, becoming operational in the second half of 2025.

The investment is an important part of RWE’s ambitious decarbonisation plans for the Pembroke Net Zero Centre (PNZC). The PNZC is proactively bringing together knowledge and expertise from across RWE’s offshore wind, gas-fired generation and hydrogen businesses to develop and deliver new decarbonised energy solutions.

Richard Little, RWE Director of the PNZC said: “We are delighted to have been awarded this contract - our first major investment into Pembroke Net Zero Centre, which will complement and further enable other projects at the site. This Pathfinder project is a great example of finding the best available technology at the best value, in order to answer the technical challenges the grid is faced with when delivering a net zero energy sector.”

A synchronous condenser does not generate power and as a result there are no additional airborne emissions or requirements for water usage. Instead, it adds inertia to the network, which is critical for the stability of the grid.

RWE is at the forefront of green innovation and is aiming to invest £15 billion in the UK in green energy projects by 2030. The company has a wealth of knowledge and experience to draw on in the development of wind, hydrogen and carbon capture and storage projects across Europe, and at the same time creating skilled green jobs.





For further enquiries: Kelly Nye
T [+44 845 0787878](tel:+448450787878)
E communications@rwe.com

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, 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 is responsibly phasing out nuclear energy and coal. Government-mandated phaseout roadmaps have been defined for both of these energy sources. 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.

General Data Protection Regulation

The personal data processed in connection with the press releases will be processed in compliance with the legal data protection requirements. If you are not interested in continuing to receive the press release, please inform us at Datenschutz-kommunikation@rwe.com. Your data will then be deleted and you will not receive any further press releases from us in this regard. If you have any questions about our data protection policy or the exercise of your rights under the GDPR, please contact datenschutz@rwe.com.

