

What technologies are being proposed for Pembroke Net Zero Centre?

Currently, RWE has ambitions to develop several new technologies at its Pembroke site. Each of these projects will be part of, and contribute to, the overall vision for Pembroke Net Zero Centre – a new hub of low-carbon innovation and clean energy generation that can help to secure the future of Pembroke’s energy heritage.

RWE Pembroke Green Hydrogen.

This facility will generate green hydrogen from water, using energy obtained from renewable sources, meaning it is produced with no carbon emissions. This green hydrogen will then be used to decarbonise local industry in South Wales by replacing their fossil fuel usage.

RWE Pembroke Battery.

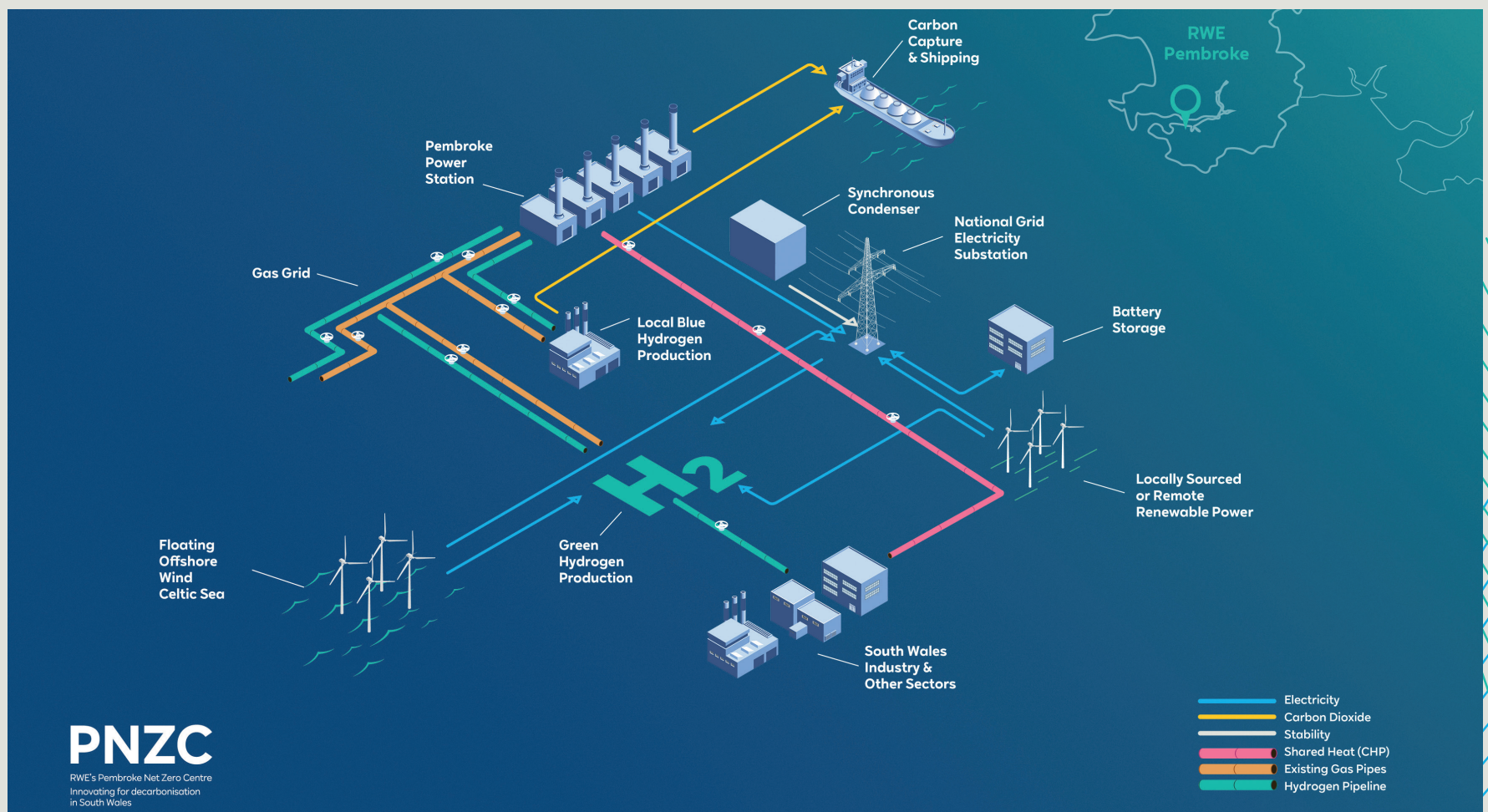
This system will enable us to flexibly store energy locally, releasing it to the electricity grid in response to fluctuations in both production and demand. This will reduce the need to use power stations for short peaks in energy demand, enhancing grid stability, while strengthening the UK’s energy security.

RWE Pembroke Power Station Decarbonisation.

This project will use Carbon Capture technology to decarbonise the existing energy generation at Pembroke Power Station, maintaining its energy supply while reducing carbon emissions.

Milford Haven CO₂ Project.

This project would connect RWE’s Pembroke Net Zero Centre to Dragon LNG’s site, under the Milford Haven Waterway. This would support CO₂ captured at the power station to be transported to a CO₂ liquefaction solution at Dragon LNG, before being shipped for storage at UK stores in the North Sea.



December 2024 update

It has been an exciting year at Pembroke Power Station. During 2024, we have consulted with the local community and submitted planning applications for both a green hydrogen facility and a battery energy storage system. These are not just new technologies at Pembroke Net Zero Centre, but also some of the first new projects at the site since the power station became operational in 2012.

RWE Pembroke Green Hydrogen: We are delighted that Pembrokeshire County Council has granted planning permission to our plans for a green hydrogen facility.

RWE Pembroke Battery: The Planning Application was submitted to Pembrokeshire County Council in mid-September 2024, and we expect it to be determined by the council in early 2025.

We look forward to sharing further news with you on Pembroke Net Zero Centre projects in 2025.