

Press release

RWE investigates carbon capture options for Pembroke Power Station driving decarbonisation ambitions in South Wales

- **CCS specialists Fluor Corporation contracted to deliver carbon capture feasibility study**
- **Second contract awarded as part of RWE's Pembroke Net Zero Centre (PNZC)**
- **Results will pave the way for submission in Government's CCUS cluster sequencing process**

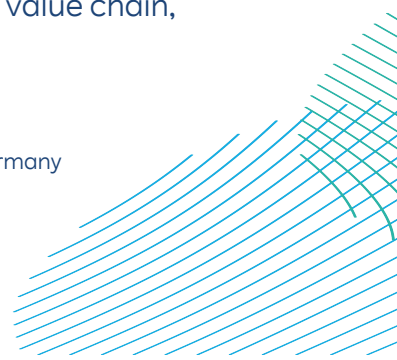
Pembroke, 5 October 2022

RWE, one of the UK's leading electricity generators, has signed a contract with Fluor – a global engineering and construction firm that specialises in carbon capture projects. The project will investigate the feasibility of retrofitting post-combustion capture of carbon at Pembroke Power Station. The study is expected to take six months, completing in early 2023.

This feasibility study is part of RWE's ambitious decarbonisation plans centred around the [Pembroke Net Zero Centre](#) (PNZC), which brings together knowledge and expertise from across RWE's offshore wind, gas-fired generation and hydrogen businesses to develop green energy solutions for both Pembrokeshire and the South Wales region. This is the second project to come out of RWE's Pembroke Net Zero Centre (PNZC), which launched earlier this year.

This report will form part of the analysis required for RWE to participate in the UK Government's carbon capture, usage and storage (CCUS) cluster sequencing process. This was a commitment to deploy CCUS in a minimum of two industrial clusters by the mid-2020s, and four by 2030 at the latest in support of the UK's transition to net zero.

RWE is developing options for the decarbonisation of its 2.2 gigawatt gas-fired Power Station in Pembroke, among them post-combustion carbon capture and the introduction of hydrogen as a clean fuel. Pembroke's South Wales location provides it with the unique advantages of being within an industrial hub and creating collaboration opportunities with partners from within the South Wales Industrial Cluster (SWIC) who together cover the full low carbon value chain,





including – from the necessary ship transport and storage of CO₂ to the supply of clean hydrogen.

Richard Little, Director of the Pembroke Net Zero Centre, said: “RWE is committed to decarbonising its business by 2040, a date that in the UK fits nicely alongside the Government’s ambition for a net zero power sector by 2035. Through our PNZC we will create a hub for our green energy projects, including the development of floating wind in the Celtic Sea, the development of a hydrogen electrolyser and decarbonisation of Pembroke Power station through a mixture of carbon capture and hydrogen fuel. We are already working with South Wales businesses to help them meet their decarbonisation targets, while supporting Welsh Government achieve its ambitions for Net Zero.”

Julian Marschewski from RWE Generation’s Strategic Development department, said: “Kicking off this technical feasibility study with Fluor is an important step towards creating tangible options for our lighthouse decarbonisation project at Pembroke. The experience gained will also give us a better understanding on how to decarbonise RWE’s wider fleet of gas-fired assets.” 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 in the development of hydrogen projects across Europe, and at the same time creating skilled green jobs.

The feasibility study has been partly funded by South Wales Industrial Cluster; a consortium of Wales’s major industry, energy, infrastructure, law, academic and engineering organisations of which RWE is a key member. The cluster was successful in securing support from the public and private sector to develop a range of partner decarbonisation deployment projects for the region.





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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 €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.

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