



Press release

RWE announces development proposals for three new carbon capture projects across the UK

- **Carbon capture projects could secure up to 4.7 GW of generation and capture 11 million tonnes of CO₂ per year**
- **Decarbonised gas is an important part of the UK generation mix and ensuring security of supply**
- **RWE is developing decarbonisation technical solutions for its European conventional fleet of plants**

Swindon, 23 May 2023

RWE, the UK's leading electricity generator, has today announced plans to progress three new carbon capture projects as it leads the way towards helping decarbonise UK power.

The company is testing the feasibility of options to retrofit carbon capture technology at its existing combined cycle gas power stations at Pembroke and Staythorpe. It is also developing proposals for a new carbon-capture, gas-fired power station at Stallingborough, close to the Humber Estuary. The proposed development would be up to 800 megawatts, enough to power one million homes.

As operators of the largest fleet of gas fired power stations in the UK and a leading renewables generator, RWE considers carbon capture and storage (CCS) to be a viable solution for delivering decarbonised, reliable, and dispatchable power generation, whilst supporting the UK's target of decarbonising its power system by 2035. As well as being key to the UK's long term energy security, the three proposed CCS projects will play a key part in helping RWE achieve its own global ambition to be carbon neutral by 2040 – targets aligned with the Paris Agreement.

Tom Glover, UK Country Chair for RWE, commented: “In order to decarbonise the power sector, support security of supply and enable large scale industrial decarbonisation, it is important that clean gas generation projects are developed. Carbon capture can support the expansion of the other renewable and low carbon technologies that RWE is a leader in deploying, by providing energy security through firm and flexible provision of electricity that is not reliant on weather. I am pleased to announce our plans for three UK carbon capture projects, representing an important step in our progression towards decarbonising our existing gas fleet.”



The development of these projects would form an important part of a robust and comprehensive energy network that ensures the UK has stable and secure generation whenever it is needed. If all three projects are progressed, they would collectively be capable of securing up to 4.7 gigawatts (GW) of flexible, decarbonised generation capacity – enough to produce electricity to power the equivalent of 8.1 million typical UK homes, while capturing 1.1 million tonnes of CO₂ per year – equal to removing 2.2 million petrol cars from the road. The projects would also represent a significant investment into UK energy infrastructure, and would play a key role in helping decarbonise neighbouring industrial clusters.

All three projects are close to proposed CO₂ networks or will have access to shipping facilities, which would enable the CO₂ to be safely transported and stored by third parties. RWE has developed partnerships with industrial clusters [South Wales Industrial Cluster \(SWIC\)](#) and [Viking CCS](#) in order to develop these transportation and storage options. Where possible, utilisation options for the captured CO₂ will be targeted.

The projects are now preparing to apply to the Department for Energy Security and Net Zero's Track 2 Phase 2 cluster sequencing funding application process, which is dedicated to carbon capture projects in close proximity to carbon capture storage or transport facilities. The application will ensure that RWE can demonstrate that carbon capture is a viable solution and an essential tool in the race to net zero.

Further information about RWE's UK decarbonisation projects is available [here](#).

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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 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 wants to phase out coal by 2030. 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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