

RWE is driving hydrogen plans forward in Wales

- **Hydrogen specialists Jacobs contracted to deliver green hydrogen feasibility study**
- **First contract awarded as part of ambitious plans towards a 100MW green hydrogen project, part of RWE's Pembroke Net Zero Centre**

Pembroke, 17 December 2021

Sopna Sury, COO Hydrogen RWE Generation: "RWE is a driver of the energy transition and partner for the decarbonisation of industry. This feasibility contract is a major step forward in delivering a green hydrogen project at Pembroke to supply hydrogen to industrial off-takers in South Wales. Pembroke is the ideal location for RWE's Net Zero Centre: with floating offshore wind accessibility, land for development of large-scale electrolysers, electricity and gas grid connections and one of Europe's most modern and efficient gas fired power stations, with opportunities to decarbonise through hydrogen or carbon capture, providing firm flexible power.

RWE, one of the world's leading global renewable companies, has announced the signing of a contract with professional services firm Jacobs to investigate the production and supply of green hydrogen at the Pembroke Power Station site.

The study will take four months, completing in March 2022, and include investigations into the feasibility of initially installing a 100 megawatt (MW) electrolyser to produce green hydrogen from local and grid connected renewable energy. The project has the potential to grow to several gigawatts (GW) in scale, linked to floating offshore wind in the Celtic Sea, and would become one of the UK's largest green hydrogen plants in development.

Tom Glover, RWE UK Country Chair, said: "As a UK leader in power generation, RWE is perfectly positioned to support the development of the UK hydrogen economy. We are already working with other companies and businesses to help them meet their decarbonisation targets, while supporting Welsh Government achieve its ambitions for Net Zero. Hydrogen will be a game changer in the decarbonisation of heavy industry in South Wales and RWE will be a key partner in helping achieve that."



The feasibility study will also look at the possibility of supplying green hydrogen for various transport and decarbonisation uses in Pembrokeshire.

CLl Phil Baker, Cabinet Member for Infrastructure at Pembrokeshire Council said: “Pembrokeshire County Council is pleased to support RWE’s green hydrogen project. The project offers some excellent potential synergies regarding the decarbonisation of transport including buses, and fleet vehicles. The Council is already leading the Milford Haven: Energy Kingdom (MH:EK) project where we are trialling hydrogen cars fuelled from our electrolyser in Milford Waterfront. The MH:EK project also proposes to assess and predict transport hydrogen demand in Pembrokeshire which could be supplied by RWE’s project.”

The knowledge and experience gained from this study will enable a better understanding of the practicalities and economics of the entire RWE project, and will be an important precursor to a funding application under the UK Government’s Net Zero Hydrogen Fund next Spring.

The feasibility study has been partly funded by South Wales Industrial Cluster; a consortium of Wales’ 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.

The project is the first to come out of RWE’s Pembroke Net Zero Centre (PNZC), that was launched earlier this year. The PNZC brings together knowledge and expertise from across RWE’s offshore wind, gas-fired generation and hydrogen businesses to develop solutions in Pembrokeshire that support decarbonisation.

RWE is at the forefront of green innovation and is committing to investing £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, including involvement in GET H2 , NorthH2 and AquaVentus. RWE is committed to playing a full part in the delivery of this emerging technology and at the same time creating skilled green jobs.

Further information on RWE’s hydrogen activities can be found at the RWE hydrogen website.

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Pictures for the Pembroke Net Zero Centre are available at the [RWE Media Centre](#).



RWE

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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.

SWIC

In the UK, RWE has partnered with industry to move towards the use of hydrogen in industrial processes in the South Wales Industrial Cluster (SWIC). Through RWE's Pembroke Net Zero Centre (PNZC) initiative, the company is investigating the feasibility of green hydrogen production located at the Pembroke Power Station site, in addition to the potential for consuming hydrogen in the power station. In the longer term, there is also the opportunity to produce gigawatts of green hydrogen connected to offshore floating wind in the Celtic Sea.

Jacobs

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