



# RWE



# RWE in the UK

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# RWE in the UK

RWE is one of the UK's largest power producers, supplying around 15 % of the country's electricity – enough to power over 10 million UK homes – with a diverse operational portfolio of onshore wind, offshore wind, hydro, biomass and gas, amounting to over 10 gigawatts (GW) pro rata<sup>1</sup> (12 GW installed capacity).

Over recent years, the company has transformed – closing its last UK coal plant in 2020 and becoming a leading operator of renewables, with a total combined installed capacity of over 4.8 GW (2.8 GW pro-rata). This is set to grow significantly as we bring forward future onshore, offshore and solar projects – located the length and breadth of the UK – delivering new investment, jobs and economic opportunities.

In addition to its growing renewables portfolio, RWE operates around 7 GW of modern and efficient gas-fired capacity in the UK, making us one of the largest providers of firm flexible generation. This is crucial for ensuring continued security of supply as the UK transitions towards a net zero carbon energy system.

RWE is a key partner in the decarbonisation of the UK's power sector and the transition towards a secure, clean and affordable energy system. Between 2012 and 2021, RWE delivered a 43 % reduction in carbon intensity for the electricity produced in the UK. Looking forward, the business is committed to being carbon neutral by 2040 and will achieve this through responsibly phasing out fossil fuels at the same time as investing in low-carbon technologies. In the UK, RWE expects to invest up to £15 billion in new green technologies and infrastructure by 2030.


RWE is actively exploring new technological opportunities such as hydrogen, carbon capture and floating offshore wind, which will help drive progress towards the UK's decarbonisation objectives.

We are deeply embedded into the communities where our projects are located. Across the UK, RWE's projects have contributed £25 million over the last 20 years to community benefit funds in surrounding local areas, helping to fund valued community resources and activities.

 **~15 %**  
of UK electricity generated

 **~2,600**  
direct UK employees

 **over 10m**  
UK homes powered

 **-43 %**  
reduction in carbon intensity of electricity produced by RWE in the UK since 2012

 **£15bn**  
expected RWE investment in green infrastructure in the UK by 2030

 **£25m**  
contribution to UK community benefit funds from RWE projects over the last 20 years

<sup>1</sup> Pro rata, based on equity share. Capacity as of 30 June 2022.

Site placing is approximate. Some locations have multiple assets. Numbers may not sum due to rounding.

## UK



In operation	MW <sup>1</sup>
9 Gas	6,929
33 Onshore wind	738
10 Offshore wind	1,914
1 Biomass	55
21 Hydro	78
3 Oil	253

Sites in operation **77** Total installed capacity<sup>1</sup> **9,968 MW**

Under construction Offshore wind **1,400** MW<sup>1</sup>

### Scotland



Installed sites	MW <sup>1</sup>
10 Onshore wind	213
1 Offshore wind	174
1 Biomass	55
15 Hydro	33

Sites **27** Total installed capacity<sup>1</sup> **475 MW**

### England



Installed sites	MW <sup>1</sup>
8 Gas	4,748
20 Onshore wind	339
7 Offshore wind	1,407
1 Hydro	1
3 Oil	253

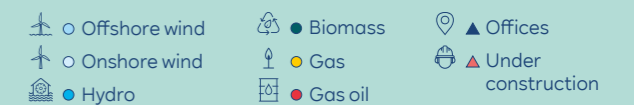
Sites **39** Total installed capacity<sup>1</sup> **6,748 MW**

### Wales



Installed sites	MW <sup>1</sup>
1 Gas	2,181
3 Onshore wind	186
2 Offshore wind	333
5 Hydro	45

Sites **11** Total installed capacity<sup>1</sup> **2,745 MW**





# RWE's projects

## Onshore wind

In the UK, RWE has pioneered onshore wind energy over more than two decades, building and operating some of the country's earliest projects. With partners, RWE continues to grow its onshore portfolio in the UK.

The company is looking to scale-up from its current portfolio of 33 operational wind farms with a total installed capacity of 803 megawatts (MW) (RWE pro rata share 738 MW) exploring a significant onshore development pipeline of up to 22 projects, with a combined potential total installed capacity of around 1,700 MW across Scotland and Wales.



Earlier in 2022, RWE opened its largest onshore wind farm to date - the 96 MW Clocaenog Forest Wind Farm, in North Wales and is set to begin construction of its latest onshore wind farm, the 70 MW Enoch Hill project, in Scotland.

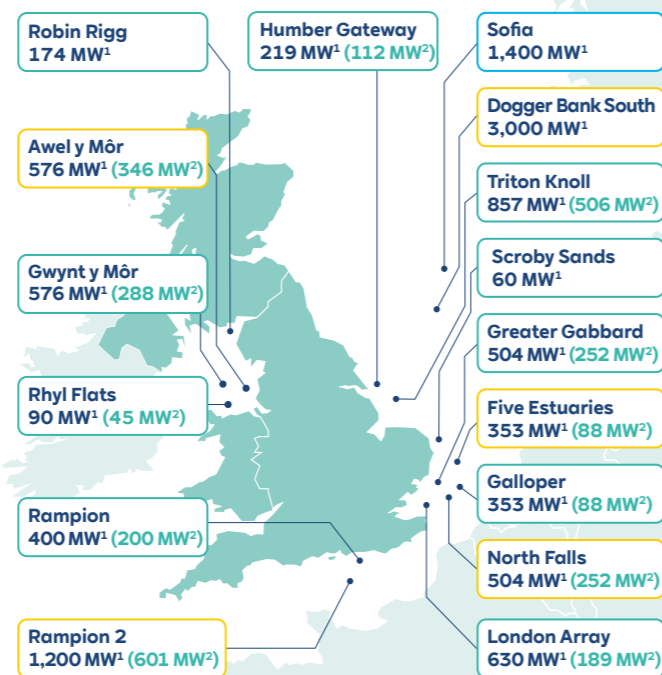
In 2021, onshore wind farms operated by RWE contributed over £2.9 million to local community funds, including over 350 different grants, and helped secure an additional £22 million in match funding.

## Offshore wind

RWE has been involved in UK offshore wind from the very start, installing the first offshore turbines at Blyth in 2000, and commissioning North Hoyle, the UK's first commercial-scale offshore wind farm, in 2004. With 10 operational wind farms, RWE continues to grow its offshore portfolio in the UK.

Taking into account our existing projects alongside those in construction and planning, RWE has one of the largest offshore wind portfolios in the UK (10.9 GW installed capacity/7.6 GW pro-rata share), and as such is a key partner in helping the Government achieve its offshore wind target of 50 GW by 2030.

### Our offshore assets



  in operation  
  under construction  
  in development

<sup>1</sup> Total installed capacity  
<sup>2</sup> Owned renewables capacity as of 30 June 2022.  
 Pro rata capacity



Our offshore projects are constructed, operated and maintained via a range of ports and offices around the UK coastline, including in the North East, Lincolnshire, East Anglia, Sussex, as well as Wales and the North West of England. Through our construction and operations activities, we have unlocked multi-million pound investments at many of the ports where we are active, establishing legacy infrastructure that has helped these facilities compete for further opportunities, and so contributing towards their future growth. We also employ locally, and are responsible for bringing jobs and training opportunities to each of the neighbouring workforces.

Our Triton Knoll and Sofia offshore projects in the North Sea represent a collective investment of £5 billion in the UK's green energy sector and are supporting a significant number of direct and indirect jobs in the Humber, North East and wider UK throughout construction and longer-term operation. The commissioning of Triton Knoll (857 MW) in 2022, which is maintained from our state-of-the-art Operations and Maintenance base in Grimsby, contributed to the UK reaching the major milestone of 25 GW total installed wind capacity.

RWE is also involved in four of the seven offshore extension projects, linked to our Gwynt y Môr (Awel y Môr), Galloper (Five Estuaries), Greater Gabbard (North Falls) and Rampion (Rampion 2) wind farms. We are also developing two 1.5 GW sites at Dogger Bank South, 110 km offshore in the North Sea.



RWE's experience in offshore wind, combined with its in-house engineering expertise and global approach, positions the business well to also become a leader in developing emerging floating wind opportunities, including in the Celtic Sea. The company has developed enviable know-how of the technology through pioneering demonstration projects in the US, Spain and Norway, and aims to apply this knowledge to deploying up to gigawatt-size commercial floating wind projects in deeper UK waters.



Scan the QR code to visit our virtual classroom to learn more about floating offshore wind.





## Firm, flexible generation

Since the closure of its last coal-fired power station in the UK in March 2020, RWE has continued to provide firm, flexible gas-fired generation with around 7 GW of modern and efficient operational capacity.



RWE's gas-fired power stations currently represent a logical partner for renewable energy, acting as a bridge technology in order to ensure the transition to a zero carbon economy is maintained whilst ensuring security of electricity supply. In the future we expect that gas will also be decarbonised through technologies such as carbon capture and storage (CCS) and/or hydrogen.

The company also operates 21 hydroelectric sites across the UK and a highly efficient 55 MW combined heat and power biomass plant in Markinch, Scotland.

RWE is one of the few companies that can play a role in all stages of the emerging hydrogen value chain, including green hydrogen production from its renewables projects, as an off-taker through its gas fired power stations, right through to distribution to industrial customers.

## PNZC

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

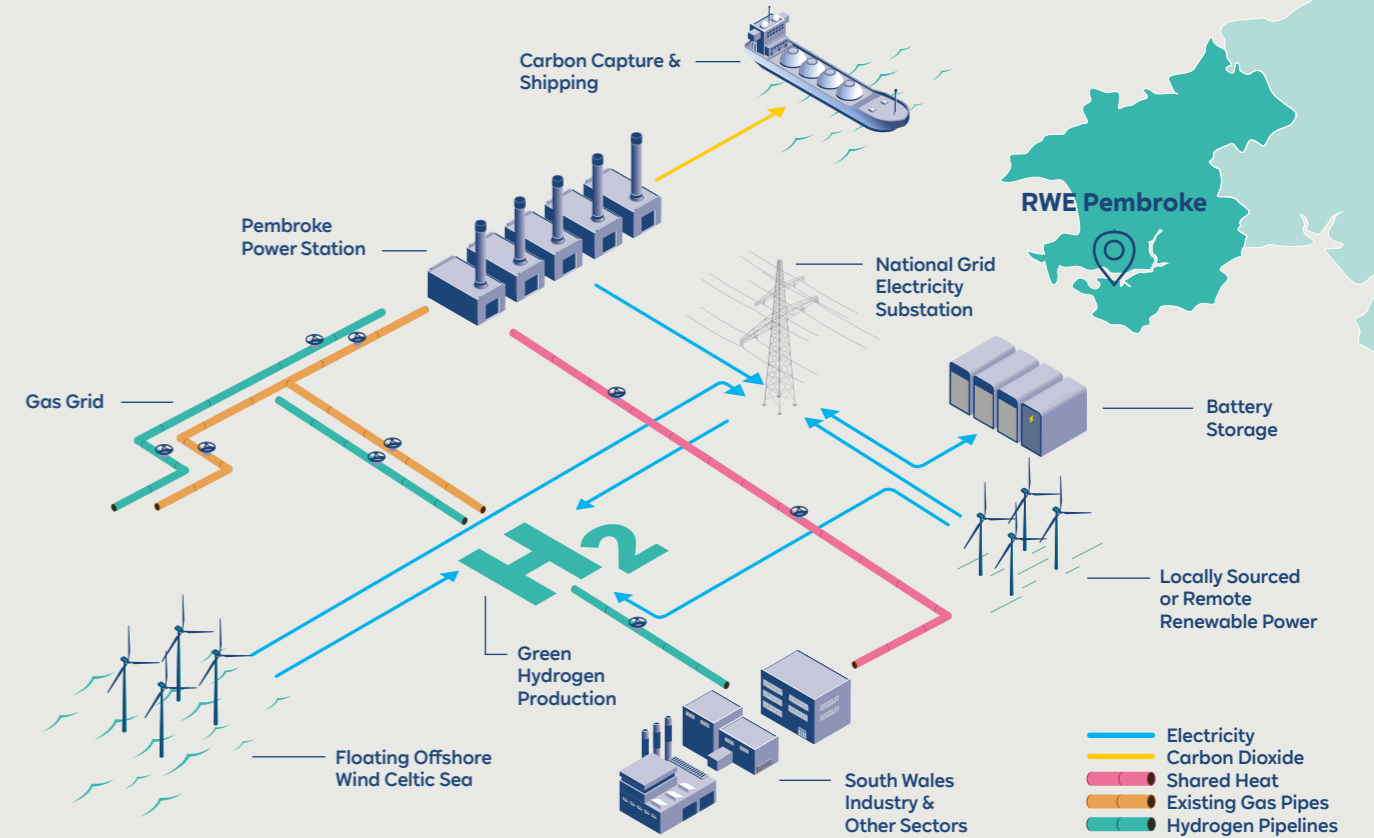
RWE's Pembroke Net Zero Centre (PNZC), based around our 2 GW Pembroke Power Station in south west Wales, is linking-up innovative technologies in support of a low carbon future, including hydrogen production, CCS, floating offshore wind and battery storage. The site represents an early test-case for how the integration of these technologies can work to provide decarbonisation for not only a major power station, but also local industry and transport networks in the surrounding region, through the South Wales Industrial Cluster.



For further information on RWE's Pembroke Net Zero Centre (PNZC) please scan the QR code.



## Pembroke Net Zero Centre



## Supporting communities: Building new green skills

The development of new green industries provides new career and training opportunities. RWE has embarked on skills and education initiatives with primary and secondary schools, colleges and universities around the UK. These range from development of curriculum materials and delivery of masterclasses, to teacher training, student internships and careers programmes.

RWE's UK wide turbine apprenticeship hub is based at Coleg Llandrillo Menai, North Wales where we have partnered to establish an award-winning training programme. So far, the college has trained over 40 apprentices from across the UK, who are actively supporting the needs of the growing industry both now and in the future. In addition, we are supporting the college in its plans to establish a state-of-the-art engineering centre to further support the offshore wind industry.

