GwyntGLAS
Floating Wind Energy

A joint venture partnership

DP ENERGY

EDF renewables

Developing green energy for a sustainable future

Information brochure

Gwynt GLAS
Floating Wind Energy

Welcome

introducing Gwynt Glas

100%

UK Government's target is for all electricity to be generated from low carbon sources by 2035

Net Zero

Welsh Government's target is to reach net zero by 2050

Offshore wind is central to the UK's strategy to reduce CO2 emissions, tackle climate change, and secure energy supplies.

The UK Government's offshore wind target is 50GW by 2030, 5GW will be delivered by floating wind farms.

Gwynt Glas has the potential to bring environmental, social and economic impacts, supporting coastal communities and creating long-term benefits for the region.

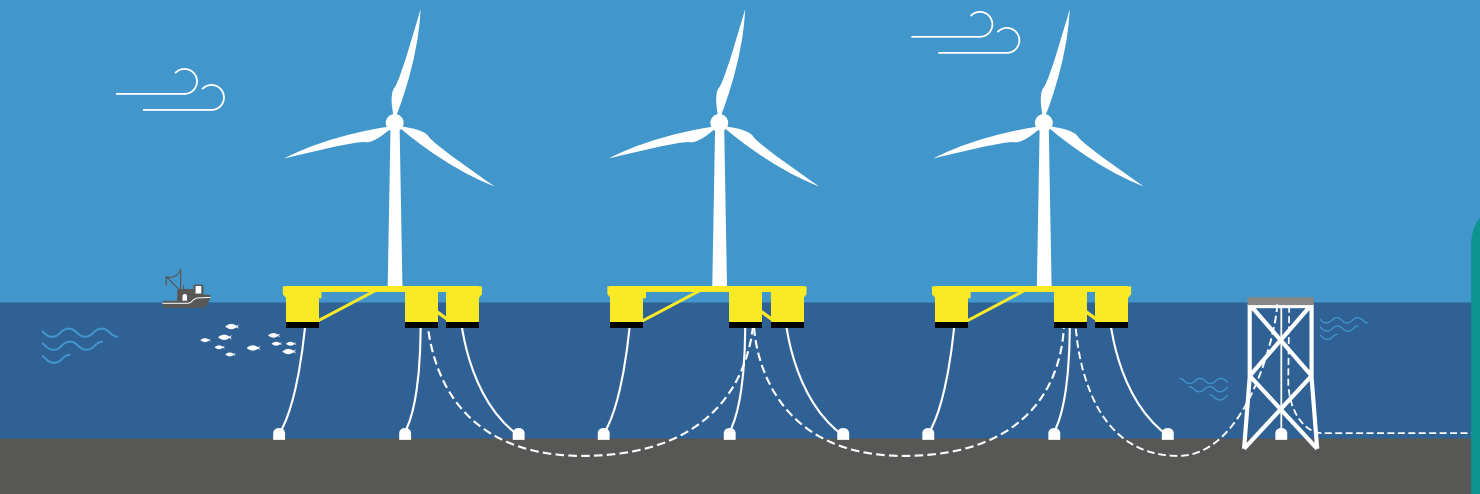
Technological innovation means that wind farms can now be located far offshore in much deeper waters such as those in the Celtic Sea off the coast of Wales and the South West of England. Floating offshore wind (FLOW) technology can harness the power of higher and more consistent wind speeds to create green energy. Floating foundations consist of a wind turbine installed on a balanced floating substructure moored to the seabed with anchors.

In 2021, The Crown Estate announced that it intended to award seabed rights to developers for floating offshore wind projects in the Celtic Sea, with an overall regional capacity of 4GW.

Our aim at Gwynt Glas is to develop a floating offshore wind farm in the Celtic Sea to generate 1GW of clean energy and boost regional economic prosperity, while minimising disruption to the natural environment, local communities and sea users.

Gwynt Glas – a joint venture between EDF Renewables UK and DP Energy - blends locally based expertise with a wealth of global industry know how. Two experienced and trusted renewable energy developers combining their talents and resources to deliver a project that can help meet ambitious renewable energy targets whilst securing the UK's energy supplies and reducing costs to the bill payer.

The team are passionate about supporting the growth of a new energy sector that can sustain skilled, well paid jobs for future generations.



This brochure provides an overview of Gwynt Glas. If you have any questions, please get in touch using the contact details provided.

Gwynt GLAS
Floating Wind Energy

Development began
2021

Construction and installation
late 2020s

Gwynt Glas operational
early 2030s

Location
Celtic Sea

The Gwynt Glas project could be located either in Welsh or English waters, or span both. The Crown Estate will determine the Celtic Sea Project Development Areas.

Potential capacity
1GW

Number of turbines
Approximately **66** floating platforms

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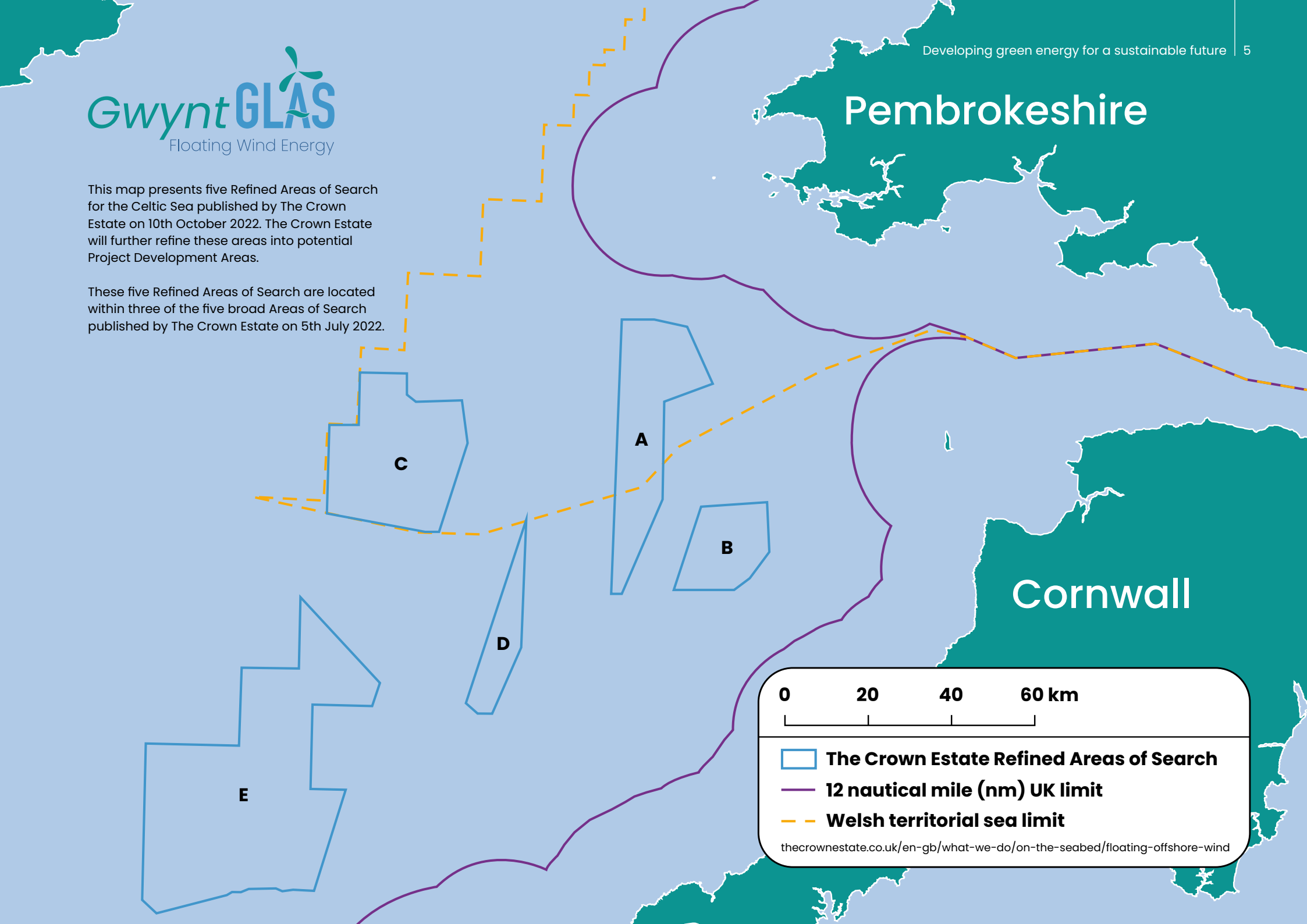
This map presents five Refined Areas of Search for the Celtic Sea published by The Crown Estate on 10th October 2022. The Crown Estate will further refine these areas into potential Project Development Areas.

These five Refined Areas of Search are located within three of the five broad Areas of Search published by The Crown Estate on 5th July 2022.



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Gwynt Glas at a glance

A joint venture partnership between EDF Renewables UK and DP Energy combining several decades of success in developing and delivering cutting edge energy projects.

1GW

Generating capacity of the project

927,400*

Number of homes that could be supplied with renewable electricity

Approx. Up to

66

turbines

1.5 million

Approximate number of tonnes of CO_2 that could be saved each year

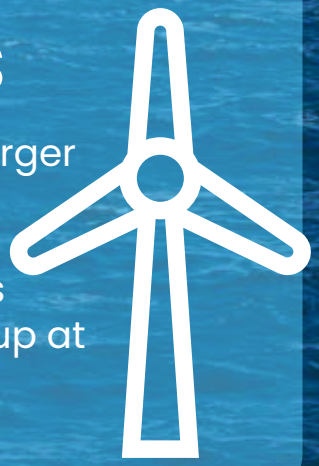
30 years

Likely operating life of the floating offshore wind farm

Turbine heights

Likely to be far larger in scale than existing fixed offshore turbines which measure up at

320m



Skills

Providing education opportunities in local communities to develop a skilled local workforce

Net Zero

Helping Wales and the UK meet net zero by 2050

Local

Teams recruited locally with offices in Pembroke Dock and Cornwall.

Contributes to the 'Prosperous' Goal in Wales' **Well-being of Future Generations Act** - an innovative, productive and low carbon society

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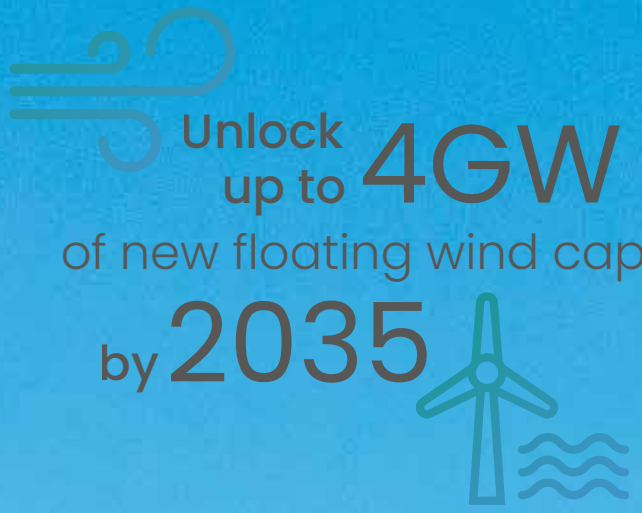
The benefits of floating offshore wind in the Celtic Sea...

Unlock up to 4GW of new floating wind capacity by 2035



Will deliver over 3,000 jobs* by 2030

- Take advantage of consistent and stronger wind
- Reduces reliance on harmful fossil fuels
- Support coastal communities and create long-term benefits for the region

Contribute £682 million* in local **supply chain** opportunities by 2030

Contribute to **security of energy supply**

* Benefits of floating offshore wind to Wales and the south west, ORE Catapult, January 2020.

...and how Gwynt Glas is inspiring the next generation of renewable workers.

Destination Renewables

Delivering a 2 year programme in partnership with **Pembrokeshire College** to help develop a skilled local labour force.

Lead partners:

DP ENERGY

EDF renewables

COLEG Sir Benfro Pembrokeshire COLLEGE

90 Students

16-18 year olds participating in the first year for this unique real-world industry programme.

Destination Renewables is underpinned by the Skills and Talent programme of the **Swansea Bay City Deal**, jointly funded by the Welsh and UK Governments, alongside private sector investment.

Arwyn Williams
Pembrokeshire College - Head of Engineering:

"The College is delighted to be working so closely with industry to develop the talents needed for future careers in a sector that is so important to all our lives."

Joshua Thomas
L3 Mechanical Engineering at Pembrokeshire College enrolled onto Destination Renewables said:

"I have signed up to Destination Renewables as I am concerned about climate change. I would love to work in the renewable energy sector following my studies."

Gwynt GLAS
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Gwynt Glas Timeline

Two experienced and trusted renewable energy developers combining their talents and resources to deliver a project that can help meet ambitious renewable energy targets whilst securing the UK's energy supplies and reducing costs to the bill payer.

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2021 – 2023

- Stakeholder engagement and consultation
- Site selection
- Ecological surveys
- Grid connection agreement
- Supply chain planning
- Application for Agreement for Lease to The Crown Estate

2023 – 2025

- Baseline data collection and Environmental Impact Assessment scoping
- Stakeholder engagement and site selection continues
- Statutory public consultation
- Refinement of technology
- Application for planning consent

Late 2020s

- Construction and installation phase

Early 2030s

- Gwynt Glas operational

To see more information, visit our website, which is regularly updated.
www.gwyntglas.co.uk

Get in touch

As our team continues to work on Gwynt Glas, we value your input. If you are a member of a group or organisation, a potential partner, a local business, or simply an interested person, we would really like to hear your feedback.
Email us on: **info@gwyntglas.com** or visit **www.gwyntglas.co.uk**

On our website you will find more information about Gwynt Glas, including the background to the project, our joint venture partnership and values, the planning process, industry partners and the supply chain.

The Gwynt Glas team is committed to the concept of being a 'good neighbour' and promoting our core project values in the way that we do business. We will always strive to be:

responsible credible approachable trusted inclusive

Please pass this brochure on or recycle in your household recycling.