



LLYR

Llŷr 1

**Floating Offshore Wind
Harnessing Welsh Energy**

**Frequently Asked
Questions (FAQs)**



FLOVENTIS
ENERGY



Frequently Asked Questions (FAQs)

Following engagement with stakeholders to date, we have compiled a list of Frequently Asked Questions (FAQs) to cover the most common queries that have been raised in relation to our plans to develop a floating offshore wind farm in the Celtic Sea.

Who are Floventis Energy?

SBM is a leading global offshore energy business with a 60 year track record in offshore innovation. As a joint venture with project development company Cierco Energy, we are Floventis. With a portfolio of projects in the UK and USA, Floventis is at the forefront of the global transition to large scale green power generation from floating offshore wind.

What is floating offshore wind?

Floating offshore wind is the use of turbines based on floating structures that allow the turbine to generate power in water depths not feasible for fixed bottom turbines. The floating structures are similar to floating platforms that have been used for decades in the oil and gas industry, as such, they are designed to keep the structure stable while at sea. The floating turbines are connected to the seabed with anchors and mooring lines enabling floating wind farms to be installed in much deeper waters and further out to sea. This has several benefits, from taking advantage of stronger and more consistent winds, to reduced visual and environmental impacts. Floating offshore wind technologies also unlock major economic benefits and supply chain opportunities for the local area.

Why do we need floating offshore wind?

The development of floating offshore wind is essential to decarbonising the UK's energy supply and tackling climate change. The UK and Welsh governments have each set legally binding commitments to become net-zero by 2050. Offshore wind can play an important part in this, with the UK government identifying a target of 50 gigawatts of wind energy by 2030, enough to power every home in the UK.

Floating wind technology has the potential to unlock new areas – including the deep waters off the Welsh coast - and provide a significant contribution to an increase in offshore wind power.

Why have you chosen this site?

The Celtic Sea offers excellent wind resource potential for the implementation of floating offshore wind technology. This is a significant low carbon resource that has previously been unattainable because of the water depth. In addition, reports suggest that the Celtic Sea has different weather patterns to the North Sea meaning that there will be system benefits to the UK grid.

We identified the potential sites for the Llyr Floating Offshore Wind Farms at an early stage prior to The Crown Estate coming out to consultation about a commercial leasing programme. We were in consultation with The Crown Estate for eighteen months investigating the feasibility of the site.



Where will Llŷr 1 be located?

Llŷr 1 will be located in the Celtic Sea. At its closest point, the project will be approximately 36 km from the Welsh coastline, 55km from Lundy Island and 72km from the Devon coastline.

How many homes will you power?

The output of Llŷr 1 is expected to power just over 100,000 homes with clean, green energy.¹

Where will you connect to the grid?

The closest connection point is adjacent to Pembroke Power Station and we have applied to National Grid Electricity System Operator (NGESO), the organisation responsible for connections to the National Grid, to connect here.

Where will you bring the cables onshore?

To connect into the connection point, we needed to identify where we can bring the cables onshore (known as landfall). Following technical assessment work, we have selected Freshwater West as the most suitable point for the landfall. Further detail on this is available in our Consultation Brochure.

Who are your technology partners?

We are considering several technologies for the turbines and floaters. Our choice of technology is expected to be confirmed in late 2024.

How long is the operational life of the project?

The project life cycle will be up to 30 years.

How are you planning to decommission the project?

It is anticipated that the project will be operational for a period of up to 30 years from final commissioning, followed by a decommissioning process which is expected to be completed within 12 months. The decommissioning process will largely mirror the installation process, in reverse, with platforms and moorings removed and returned to local ports for disassembly and disposal.

Final details of the proposed decommissioning will be agreed towards the end of the 30 year operational life of the project, in line with the applicable legislation and guidelines at that time. It is assumed that all buried infrastructure will be left in situ to minimise disruption and disturbance, however the details of decommissioning process will be determined in a Decommissioning Plan, which will be subject to consultation.

¹Based on R-UK statistics

<https://www.renewableuk.com/page/UKWEExplained/Statistics-Explained.htm>

How will the project benefit the local economy and local communities?

Llŷr 1 represents a major investment opportunity for the local area, Pembrokeshire and Wales and we want the local community to benefit from our investment. Independent reports suggest that the first GW of floating wind power in the Celtic Sea would create as many as 3,000 jobs and almost £700m in supply chain opportunities for Wales and Cornwall in the coming decade alone.

Unlike bottom-fixed constructions (which are assembled at sea) floating turbines need to be completely assembled onshore (at quayside) before being towed to sea to be installed. This means major economic opportunities for the local economies around ports and local supply chains that need to service the construction and maintenance of floating wind farms. We are therefore actively engaging with the supply chain in Wales and the South West.

How will the project impact the natural environment?

We're currently undertaking an environmental Impact Assessment (EIA) to understand the potential effects of the project on the environment and local communities and to identify ways in which any impacts could be avoided or mitigated. To help inform this consultation, we have undertaken a preliminary assessment of the likely significant effects, and these can be found in our consultation brochure.

When will the applications be submitted?

We expect to submit our applications for consent for Llŷr 1 in Spring 2024.

How can I receive regular updates on the project's progress?

Please register for project updates by emailing info@llyrwind.com

How can I sign up for supply chain opportunities?

If you are interested in being a potential supplier and supplying services to the Llŷr Projects please register your details on our Supply Chain Register:

www.llyrwind.com/our-supply-chain



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