

# Advancing Offshore Renewable Energy in the Celtic Sea

## Wave Hub

### Pembrokeshire Demonstration Zone

- 90sq km area
- 50m water depth
- 400kV transmission line
- Multiple arrays generating up to 30MW each
- Haven Waterway Enterprise Zone

Pembroke Dock

Swansea

Cardiff

Barnstaple

Exeter

Padstow

Plymouth  
COAST Laboratory

Hayle

■ FaB Test  
Falmouth Bay  
Test Site

### Wave Hub

- 8sq km area
- Fully installed, grid connected & consented
- Multiple arrays generating up to 48MW
- Marine Hub Cornwall Enterprise Zone

[www.wavehub.co.uk](http://www.wavehub.co.uk)  
[enquiries@wavehub.co.uk](mailto:enquiries@wavehub.co.uk)

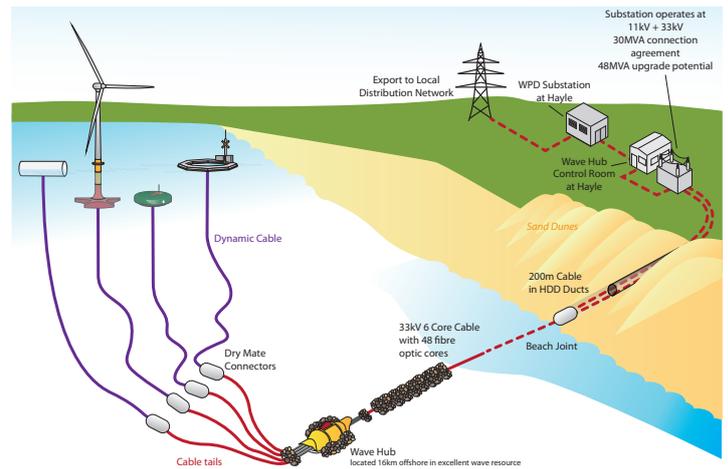
# Wave Hub, Cornwall

Wave Hub is the world's largest and most technologically advanced site for the testing and development of offshore renewable energy technology.

Located 16km offshore from Hayle on the north coast of Cornwall, Wave Hub offers:

- A fully consented site for testing arrays of wave energy devices
- Purpose built and pre-installed grid infrastructure with 48MW export capacity
- Water depths ranging from 51m to 57m
- Wave climate monitoring and a full range of baseline data
- Full fibre optic remote monitoring and metering
- Support from Marine Hub Cornwall ([www.marinehubcornwall.co.uk](http://www.marinehubcornwall.co.uk))

Wave Hub has been funded by the Cornwall ERDF Programme and the Department for Business, Energy and Industrial Strategy. It is managed by Wave Hub Limited which has a dedicated operations team to support developers' deployment plans. Existing customers include Carnegie Clean Energy, GWave and Seatricity.



Department for  
Business, Energy  
& Industrial Strategy

# Pembrokeshire Demonstration Zone, Wales

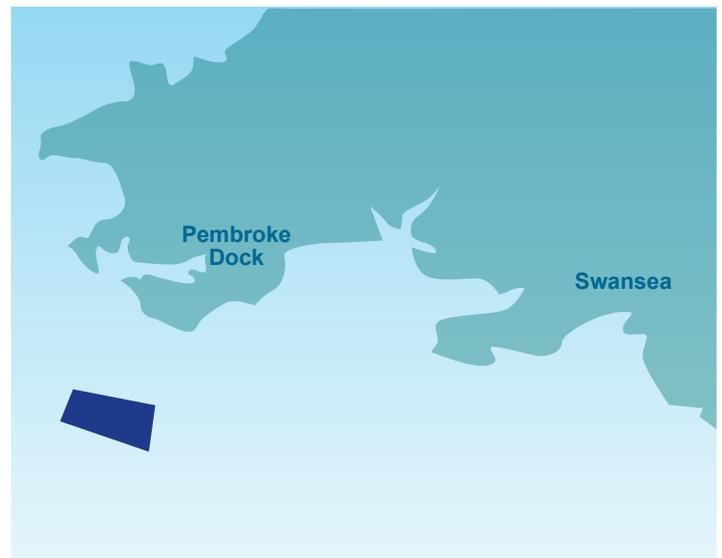
The Pembrokeshire Demonstration Zone is a new wave energy site located off the South Pembrokeshire coastline. Wave Hub Limited is the seabed leaseholder.

The zone comprises a 90 sq km area of seabed with water depths of approximately 50 metres and a wave resource of 19 kW/m. It is located between 13-21kms offshore and has the potential to support the demonstration of wave arrays with a generating capacity of up to 30MW for each project.

Wave Hub Limited has secured support from the Welsh Government, including the European Regional Development Fund to undertake the following work in 2017.

- Gain a full understanding of the industry requirements for the demonstration zone
- Complete a technical feasibility study and identify an appropriate delivery model
- Prepare a strong business case for securing funding to enable the zone to be developed
- Actively engage with key stakeholders

The Pembrokeshire Demonstration Zone could be built by 2020, with the first devices installed in 2021.



**Cronfa Datblygu  
Rhanbarthol Ewrop  
European Regional  
Development Fund**