



MAP OF PROJECTS INSIDE

# BRETAGNE<sup>BE</sup>

## OCEAN POWER

### A STRATEGIC LOCATION

In the heart of Offshore Wind  
& Marine Energies Market

A project of



## 190 COMPANIES

to find your right partner

Offshore renewable energy is a sector with more than **190 companies** working:

- in all offshore renewable technologies
- and at all stages of offshore renewable projects.

**Major players in French research**

- 32 laboratories
- France Energies Marines headquarters
- Campus Mondial de la Mer
- Pôle Mer Bretagne Atlantique



[www.bretagneoceanpower.fr/directory](http://www.bretagneoceanpower.fr/directory)

## TESTS SITES

to prove your concept

- Paimpol-Bréhat operated by Open-C Foundation, national offshore test centre for floating wind and marine renewable energy (MRE)
- Sainte Anne du Portzic operated by Open-C Foundation and IFREMER

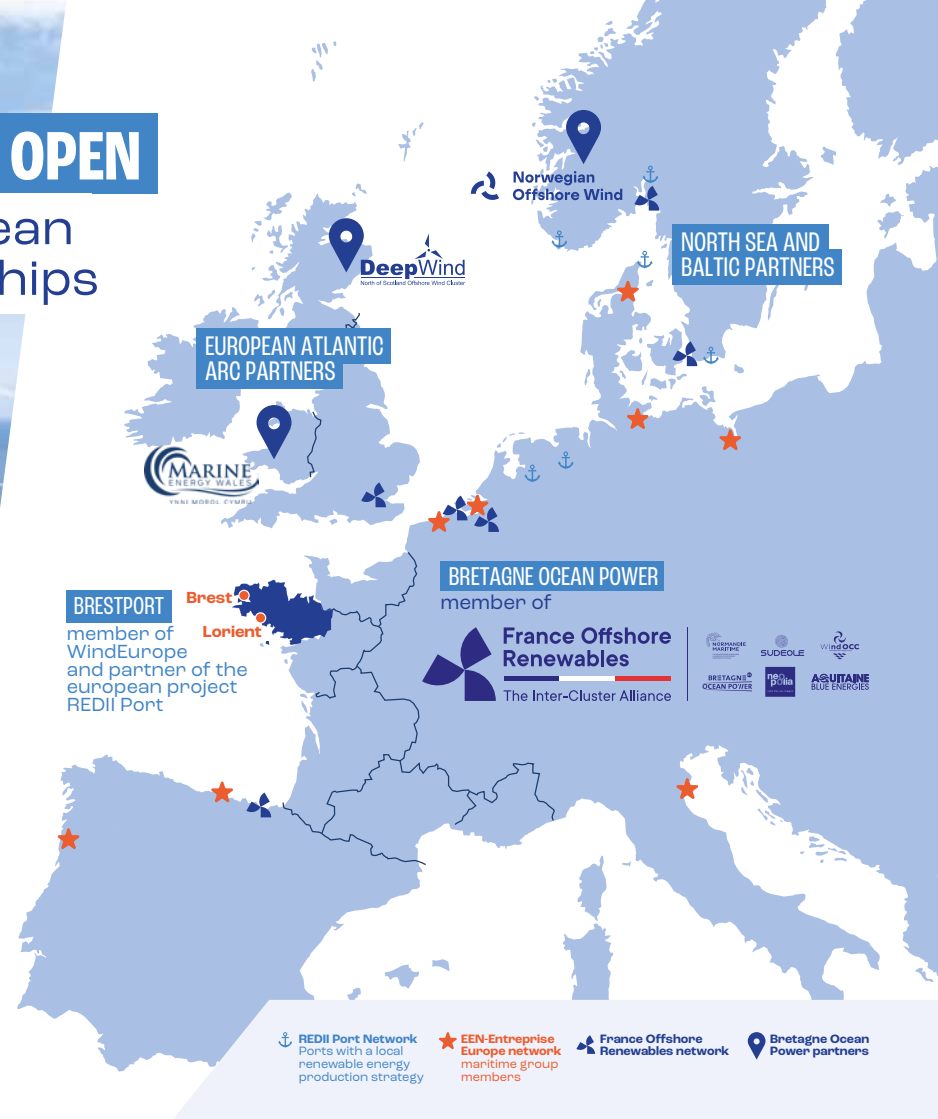


Crew boat near an Ailes Marines wind turbine  
Bay of Saint Brieuc



# A REGION OPEN to european partnerships

 Ailes Marines wind farm  
Bay of Saint Brieuc



# OFFSHORE WIND AND MARINE ENERGIES IN BRITTANY

**OFF-GRID ISLAND DEMONSTRATOR**

Model of a 100% autonomous island with 100% renewable energy including :

- Connection of a tidalturbine, photovoltaic powerplant electricity storage system
- Smart grids regulate and manage consumption and production using an energy management system
- D10 tidal turbine demo

**AREA FOR TIDAL COMMERCIAL DEVELOPMENT**

**FLOATING WIND & WAVE ENERGY TEST SITE**

Sainte-Anne-du-Portzic

- GEPS Techno, DIKWE and Seaturns WEC tested
- Eolink floating wind tested
- operated by IFREMER and Open-C Foundation

**OFFSHORE WAVE ENERGY PILOT SITE**

- Existing offshore site, preliminary studies already performed
- Further project to be studied

**750MW FLOATING WIND SOUTH BRITTANY**

250MW awarded to Pennavel  
500MW new tender in 2024

**FLOATING WIND PILOT SITE**

- Preliminary studies and consenting already performed
- Opportunity for H2 demonstration

**ONSHORE WAVE ENERGY PILOT SITE**

Roscoff

**BrestPort MRE TERMINAL**

dedicated infrastructure for floating wind

**MRE SERVICE PORT PORT OF LORIENT**

- Logistic hub
- O&M port for floating wind

**TIDAL TURBINE TEST SITE**

Paimpol Bréhat site

Oceanic test site for full-scale turbine,

- 2MW grid connection
- Operated by Open-C Foundation
- Open Hydro and CMN HydroQuest tests from 2010 to 2021

**TIDAL TURBINE TEST SITE**

Etel Ria site

Test site for small scale tidal turbines

- Operated by Chantier Bretagne Sud
- Guinand Energies devices already tested
- European project Element with Nova Innovation

**BOTTOM-FIXED OFFSHORE WIND FARM**

Bay of Saint-Brieuc

- 496 MW commissioning in May 2024
- Project developer: Ailes Marines
- 62 wind turbines Siemens Gamesa Renewable Energy SG 8.0-167 DD, assembled in Le Havre and Brest
- Jacket foundation Navantia Windar built in Brest (FR) and Fene (ES)

**SERVICE PORT**

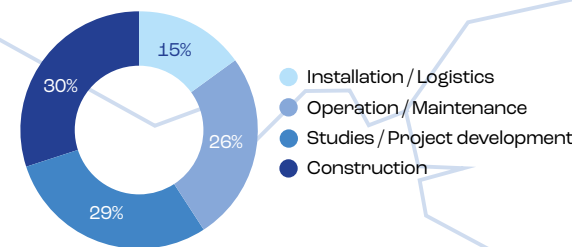
for St Brieuc offshore wind farm

**TIDAL POWER PLANT (EDF)**

**ST QUAY O&M PORT**

for St Brieuc offshore wind farm

**190 COMPANIES**  
on the whole value chain



**RESEARCH CENTRES**

- Ifremer Brest : tank test and openwater test site
- Campus Mondial de la Mer (Worldwide campus for blue growth)
- Brest - ENSTA Bretagne Brest
- ITE France Energies Marines – Brest

**BUSINESS AND INNOVATION CLUSTERS**

- Pôle Mer Bretagne-Atlantique
- Bretagne Pôle Naval
- Breizh EMR
- Pôle EMC2
- Technopole Brest Iroise

**PORTS DEDICATED TO MRES**

- Maintenance ports

**GEOGRAPHICAL SCALE**

0 10 20 30



**BRETAGNE**  
**OCEAN PO'IER**



# BRITTANY

## a strategic location

### Home of ocean Energy

- Support to the technology development in wave and tidal
- Defined areas for tidal commercial project

### Home of floating wind

- 1st commercial project awarded in Europe
- Dedicated port infrastructure

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OCEAN POWER



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INNOVATION

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COMMERCE  
INTERNATIONAL



**/ Have a project?  
Contact us!**

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