About FLOATFARM

FLOATFARM is an EU-funded project aiming to significantly advance the maturity and competitiveness of floating offshore wind (FOW) technology by increasing energy production, achieving significant cost reductions within the design and implementation phases, improving offshore wind value chain and supporting EU companies in this growing sector.

FLOATFARM aims to decrease negative environmental impacts on marine life and to enhance the public acceptability of FOW, thereby accelerating the EU energy transition.

Duration
4 years

Start-end date
1 January 2024
31 December 2027

Consortium
17 Partners
8 countries

Budget
6M€

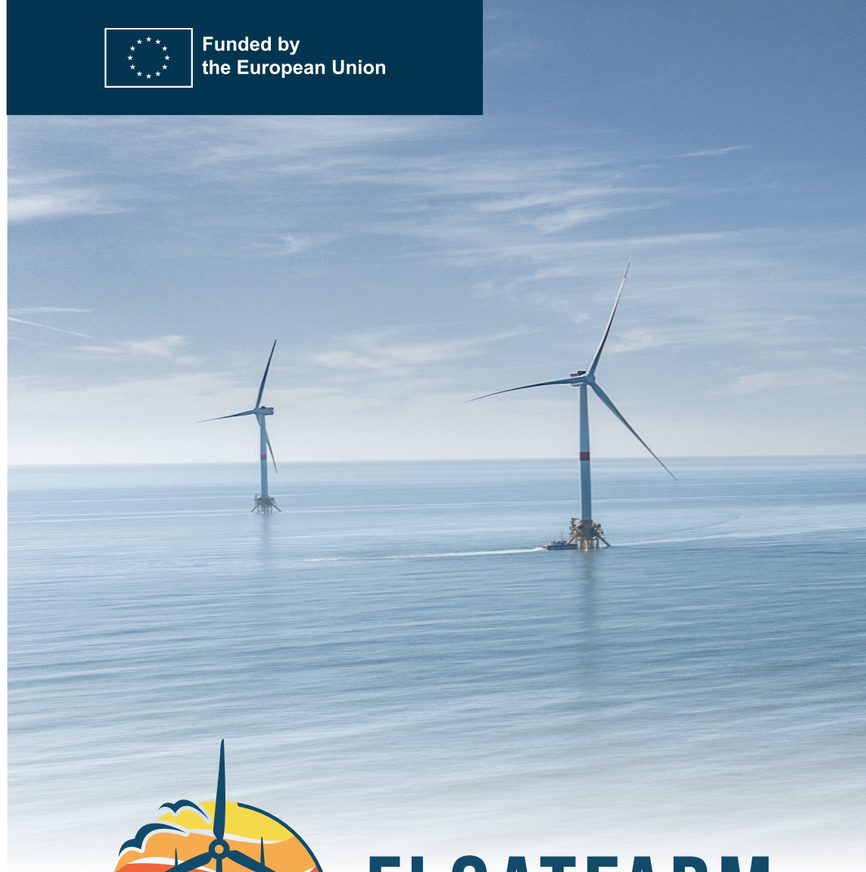
FLOATFARM
NEXT GENERATION FLOATING WIND FARMS

www.floatfarm-project.eu
contact@floatfarm-project.eu

Follow us! @FLOATFARM @floatfarm

FLOATFARM Coordinator
Joseph Saverin (TUB)
j.saverin@tu-berlin.de

Funded by
the European Union

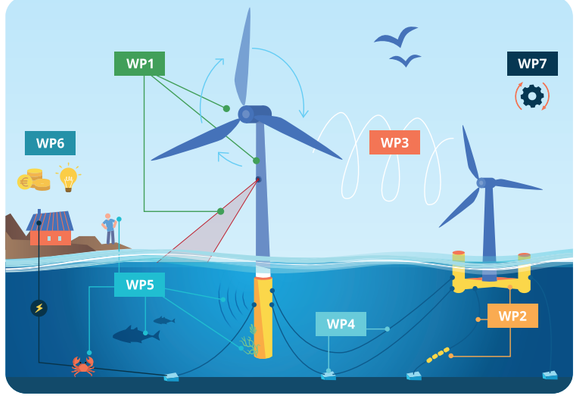


FLOATFARM
NEXT GENERATION FLOATING WIND FARMS

Project concept

FLOATFARM emerges as a promising solution to address the challenges facing offshore wind energy. In contrast to traditional fixed-bottom structures, FLOATFARM offers a more cost-effective alternative, particularly in deeper waters where conventional methods face limitations. To overcome the complexities inherent in FOW deployment, a collaborative, interdisciplinary approach is imperative, drawing on expertise from diverse fields to drive innovation and facilitate the successful integration of this pioneering technology into the offshore wind energy sector.

To achieve its objectives, FLOATFARM relies on 7 technical work packages divided into 3 main actions:



Action 1		Action 2		Action 3	
WP1 Turbine Technology	**WP2** Substructure Technology	**WP3** Farm Flow Control	**WP4** Farm Marine Connectivity	**WP5** Environmental & Sociological Impact	**WP6** Economic Impact

Cross-cutting Action **WP7** MDAO framework

Technology Readiness Level advancements within FLOATFARM

- A number of turbine technologies to enable the transition to deeper waters including radar sensing of local wave fields for control and maintenance, innovative taut mooring line configurations and dynamic cabling solutions will be advance to TRL 5.
- For farm-level optimisations, two exciting new technologies - shared mooring and shared anchoring - will be advanced to TRL 5 through testing in a representative marine environment.
- Development of highly-accurate marine acoustic noise models of operational turbines will raise the technology readiness of modelling tools. Ecosystem impact modelling will advance to TRL5 through the collection of acoustic data of a scaled operational turbine in a marine environment.

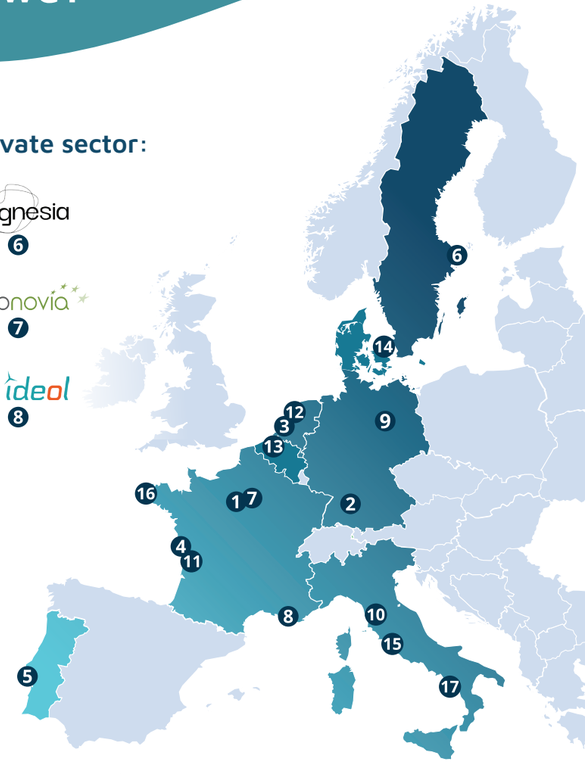
Planned experiments

Experiments will be performed at both laboratory scale and at medium scale in a marine environment: Design load wave and pioneering shared-mooring experiments will be conducted in the state-of-the-art wave basin at LHEEA in Nantes, France. A fully operational and instrumented scaled 15MW FOWT will be constructed, commissioned, and operated in the MaRELab experimental facility in the port of Naples, Italy.

Who are we?

Industry and private sector:

SAIPEM 1
Hagnesia 6
sowento 2
euronovia 7
NEXT OCEAN 3
BW ideol 8
INNOSEA Part of OWC 4
blue oasis 5



Academia and research:

9
10
11
12
13
14
15
16
17