



**FLOATFARM**  
NEXT GENERATION FLOATING WIND FARMS

# FLOATFARM

## PROJECT FACTSHEET

### About the project

FLOATFARM is a Horizon Europe R&I Action (HORIZON-CL5-2023-D3-01-05) funded by the European Climate, Infrastructure and Environment Executive Agency (CINEA). FLOATFARM is closely linked to the FLOATECH project (2020-2023) and aims to bring the technologies developed within FLOATECH to the next level of technological readiness, complementing them with a significant number of new concepts, innovations and methods.

The consortium is coordinated by **TU Berlin** and is implemented by **17 partners** from 8 EU countries. The project runs from **January 2024 to December 2027** and has received a budget of 6 million EUR from the European Commission.

The overarching goal of FLOATFARM is to **significantly advance the maturity of FOW technology** by **increasing energy production** and achieving **important cost reductions** at all levels within the design and implementation phases. Ultimately, FLOATFARM aims to contribute to **decreasing the negative environmental impacts on marine life** and to **enhancing the public acceptability** of FOW farms. This will be achieved by 4 types of actions:

- **Action 1** focuses on developing innovative technologies for individual FOW turbines, aiming to address sustainability and economic challenges.
- **Action 2** aims to develop and demonstrate technologies applicable to multiple turbines within a FOW farm, emphasizing synergy between components and optimization to simplify practical implementation.
- **Action 3** assesses environmental and socioeconomic impacts of FOW farms through model development, data collection, and scenario analysis.
- A **cross-cutting action** involves integrating technologies from Actions 1 & 2 with environmental and socioeconomic impacts in Action 3 through a holistic MDAO framework.



### Project outcomes

- **Improved FOW turbines and farms efficiency:** Advanced control methods for aerodynamic interaction between sub-clusters, associated with synchronised turbine controllers.
- **Increase energy production of FOW farms:** Low specific power offshore rotor will enable FOW farms to be installed in deepwater areas with lower speed power at an increase AEP of 20%.
- **Adoption of cutting-edge technologies from EU SMEs:** Innovative generator designs up to 80% lighter and wave feedforward control and radar wave sensing technologies.
- **Better use of the marine space and less environmental impact:** Shared mooring and anchoring system reducing by 66% the footprint and contact with seabed by 33%.

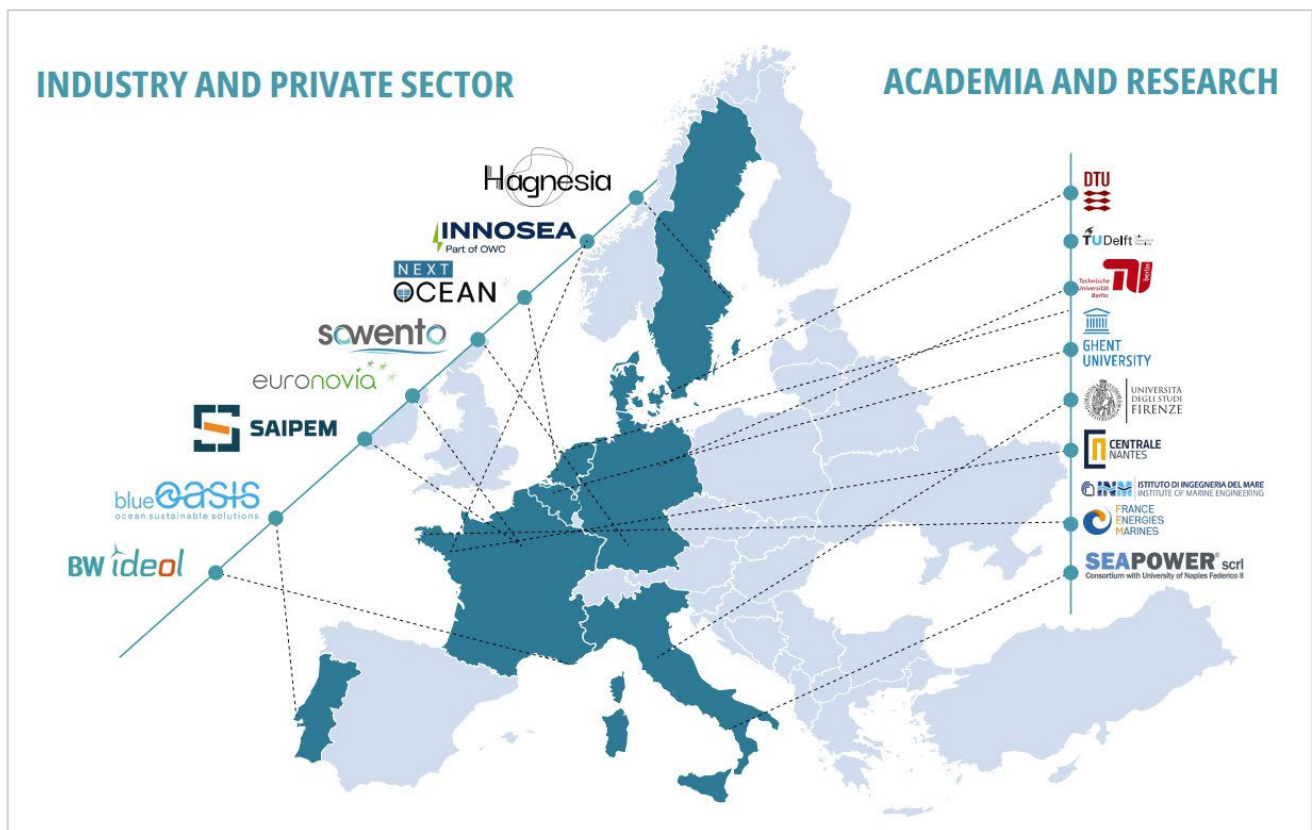


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## Expected impacts

- **Technological:** Wider available wind areas resulting in an increase of EU energy autonomy and security, and deployment of FOW across all sea basins by 2050.
- **Economical:** Reduction of the LCOE and the CAPEX enabling a rapid establishment and expansion of FOW farms in EU.
- **Environmental:** Improved design of FOW platforms for reduced environmental impact, enabled by a better understanding of their impacts on the marine biodiversity
- **Societal:** Improved acceptability of the necessity of FOW farms in the renewable energy mix.

## The consortium



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Website: <https://www.floatfarm-project.eu>

LinkedIn: <https://www.linkedin.com/company/floatfarm>

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## Contact

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