FLOATECH

The future of floating wind turbines

INCREASING THE TECHNICAL MATURITY AND THE COST COMPETITIVENESS OF FLOATING OFFSHORE WIND ENERGY

CONSORTIUM	DURATION	START-END DATE	BUDGET	TECHNOLOGY
9 PARTNERS 4 COUNTRIES	3 YEARS	01.01.2021 31.12.2023	4M€	FLOATING OFFSHORE WIND (FOW)

OBJECTIVES

- **Get a better insight** on the physical phenomena taking place in a floating turbine, both in terms of aerodynamics and hydrodynamics,
- **Model and reduce the uncertainties** in the design process by means of proposed simulation approach,
- **Facilitate the assessment** of new technological concepts, techniques and systems by high-computing resources and dedicated experiments,
- **Increase the future market value** of offshore wind energy,
- **Reduce the Levelized cost of energy** (LCOE) by 15% in comparison to present average values.

INNOVATION

The development, implementation, and validation of QBlade-Ocean, a user-friendly and efficient design engineering tool performing simulations of floating offshore wind turbines with unseen aerodynamic and hydrodynamic fidelity.

The development of two innovative control techniques (i.e., Active Wave-based feed-forward Control and the Active Wake Mixing) for Floating Wind Turbines and floaters, combining wave prediction and anticipation of induced platform motions.

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FLOATECH

Credits : BW Ideol –
Floatgen floating wind turbine

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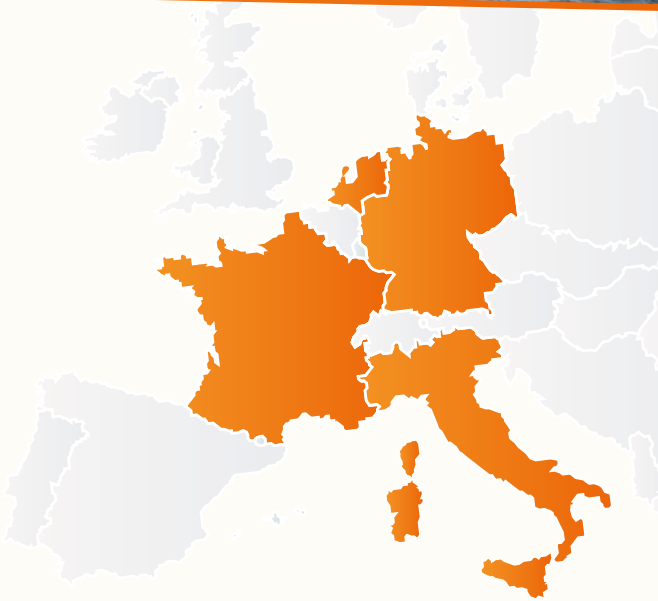

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