



European Commission



# INNOVATION FUND

Deployment of net-zero and innovative technologies

## NEXTFLOAT PLUS: Next Generation Integrated Floating Wind Optimized for Deep Waters

The Innovation Fund is 100% funded by the EU Emissions Trading System

### | Project Factsheet

The NEXTFLOAT+ project will deploy a breakthrough Floating Offshore Wind (FOW) technology that will revolutionise the offshore energy industry by reducing costs and facilitating technology scale up. The project will bring together a disruptive and structurally efficient floating wind platform, a two-bladed downwind turbine, an innovative Single-Point-Mooring system, and marine environment regeneration technology. This combination of technologies will supply green electricity to approximately 4 400 households in France (considering a yearly average electricity consumption per household is around 4 679 kilowatt hours (kWh)). The expected relative greenhouse gas emission reduction is 99.59% compared to the reference scenario.

The project goes beyond the state of the art through its multi-faceted approach to innovation. By combining a tripod-like structure with a Tension

#### COORDINATOR

EXPONENTIAL RENEWABLES SL

#### LOCATION

France

#### CATEGORY

Renewable Energy (RES)

#### SECTOR

Wind energy

#### AMOUNT OF INNOVATION FUND GRANT

EUR 13,360,700

#### EXPECTED GHG EMISSIONS AVOIDANCE

35,675 tonnes CO2 equivalent

#### STARTING DATE

01 April, 2023

#### ENTRY INTO OPERATION DATE

30 April, 2026

#### FINANCIAL CLOSE DATE

31 October, 2024

Leg Platform (TLP) mooring and a downwind turbine, the PivotBuoy® technology creates a structure that passively weathervanes with the wind direction and reduces the steel weight up to 49% when compared to traditional technologies. The design significantly brings down capital and operational expenditure, and creates a reliable and efficient system that is easier to install and maintain. In addition, the Single Point TLP reduces the seabed occupation, while the Bio-Boosting systems recovers the affected natural environment, ensuring coexistence with fisheries and natural habitats. These technologies will reduce the Levelized Cost of Energy (LCOE) to €62-106/megawatt hour (MWh) by 2030 and will avoid over 35 600 tons of CO2 equivalent emissions over the first ten years of operation.

## | Beneficiaries

EXPONENTIAL RENEWABLES SL

Spain

TECHNIP ENERGIES FRANCE

France

NEXTFLOAT PLUS

France

The initiative aligns with key European policy areas, notably in achieving climate neutrality through scaling up the use of renewable energy. The NEXTFLOAT+ project is aligned with the European Union's Strategy on offshore renewable energy and with the European Green Deal aiming at climate neutrality by 2050.

The NEXTFLOAT+ project will also have significant implications for local and regional economies. The project represents the next step towards the industrialization of offshore wind, which is key for the ramp up of local supply chains. The scalability of the project's design also allows for both efficiency gains and cost reductions, providing a foundation for further deployment and broad economic benefits.