



Black sea fLoating Offshore Wind

Let's harness the floating offshore wind energy potential of the Black Sea, let the wind BLOW.

About project

Offshore wind is currently one of the most cost-efficient, clean and scalable power sources. As of today, offshore wind farms rest on bottom-fixed foundations and are mainly deployed in shallow water areas with depths less than 60m. Floating offshore wind energy is expected to play a key role to materialise the vast potential of deep-sea areas.

Project BLOW aims at unlocking the Black Sea floating Offshore Wind potential, by demonstrating a disruptive cost-efficient floating integrative unit design optimised for low and medium wind speed areas. BLOW will implement a 5 MW demonstrator in the Black Sea and will pave the way to industrial mass production and to the deployment of floating offshore wind farms. In order to accelerate the energy transition in the region, the project will couple synergies with the Oil & Gas sector and foster societal acceptance and crossborder policy development.



EU Budget: 15,986,236 €
Duration: 60 months
Coordinator: The Catalonia Institute for Energy Research (IREC)

Objectives

- 1 Unlock the floating offshore wind potential in the Black Sea
- 2 Demonstrate a cost-effective disruptive floating unit pyramidal design optimised for low and medium speed areas
- 3 Advanced operation, control and maintenance through Digitalization
- 4 Prove the industrial feasibility of 15-20 MW floating wind turbines with rotor diameters larger than 250 m for mass industrialisation compatible with local manufacturing capabilities
- 5 Decrease environmental impact by 40% compared to other FOWT (GHG emissions)
- 6 Support cross-border policy development and societal acceptance to foster future mass industrialisation and replication of FOWT in the Black Sea

Consortium



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