

Black sea fLloating Offshore Wind (BLOW)

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

The 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 50m. 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 fLloating 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. BLOW targets an expected LCOE of 87€/MWh by 2028 (and 50€/MWh beyond 2030) and an environmental impact reduced by 40%.

Partners

1. IREC- The Catalonia Institute for Energy Research (IREC) is a public research center ascribed to the Department of Climate Action, Food and Rural Agenda of the *Generalitat de Catalunya*. Created in 2008, it aims to contribute to the sustainable development of society and to increase the competitiveness of industry in the energy sector.
2. ACCIONA ENERGIA - We are the biggest global operator exclusively dedicated to renewable energies, with no links or legacy related to fossil-fuel technologies.
3. EOLINK - The company is developing one of the most disruptive renewable energy sources. People at Eolink are gathered around the unique opportunity to produce massively, locally and affordably green energy.
4. PETROCELTIC - Petroceltic is a dynamic privately held oil and gas company led by expert senior management with operating assets in Europe.
5. GSP - GSP values the people, respects the environment, and shows reliability. Our employees capitalize more than 15 years of professional experience in the branch, having worked all over the world.

6. UMG - The University of Mining and Geology "St. Ivan Rilski" (UMG "St. Ivan Rilski") has been existing as an independent higher school since 10th June 1953 according to Decree №231 of 10th June 1953 of the Presidium of the National Assembly.
7. CONSTANTA MARITIME UNIVERSITY - Formerly established in 1972, the Merchant Maritime Institute became a civilian institution in 1990 and in 2000 changed its name into Constanta Maritime University.
8. BEIA CONSULT INTERNATIONAL - Beia Consult International is an SME with R&D department, founded in 1991, and it is one of the leading providers of telecommunications equipment and solutions in Romania for enterprise communications.
9. EMEC - The European Marine Energy Centre (EMEC) Ltd is the world's first and leading facility for demonstrating and testing wave and tidal energy converters - technologies that generate electricity by harnessing the power of waves and tidal streams - in the sea.
10. CEPS - Founded in Brussels in 1983, CEPS is a leading think tank and forum for debate on EU affairs, with an exceptionally strong in-house research capacity and an extensive network of partner institutes throughout the world.
11. BEXCO - At Bexco we are aware that our success and future depends upon how our customers experience our products and services.
12. MCE GmbH- MCE GmbH is a company of the HABAU GROUP and is represented at six locations in five different countries. Our range of services encompasses steel structures with the core competences of bridge and steel construction as well as structural steel plants.
13. BRUNEL UNIVERSITY LONDON - When Brunel was awarded its Royal Charter in 1966 we were given a distinct purpose and an incredible opportunity. The campus was to be the home of technological education, championing innovation and advancement, and giving the UK the knowledge base it needed to compete on the international stage.
14. SIVAS - Sivas, also known as Sebaste, Sipas, Megalopolis, Kabira, Diaspolis and Talauras at various time periods, is one of the oldest and most important centers of population in Anatolia.
15. DURED - The Offshore Wind Energy Association (DURED) was established on March 05, 2021 for the purpose of investing and developing offshore wind power plants in Turkey, bringing together the maritime and energy sectors, and coordinating collaborations.
16. FRAUNHOFER - Fraunhofer IWES secures investments in technological developments through validation, shortens innovation cycles, accelerates certification procedures, and increases planning accuracy by means of innovative measurement methods in the wind energy and hydrogen technology sectors.