



Blue Economy sYnergies fOr
sustainable Development

OFFSHORE WIND FARMS SUMMER SCHOOL

PART 1 - TECHNICAL ASPECTS

- Lectures and panel discussions
- Computer simulations of wind turbines
- Wind tunnel demonstrations
- 3D print and scaled offshore wind farm model
- A field visit to the Vrataruša wind farm
- Study materials and food provided



DURATION

June 1 - 3, 2026



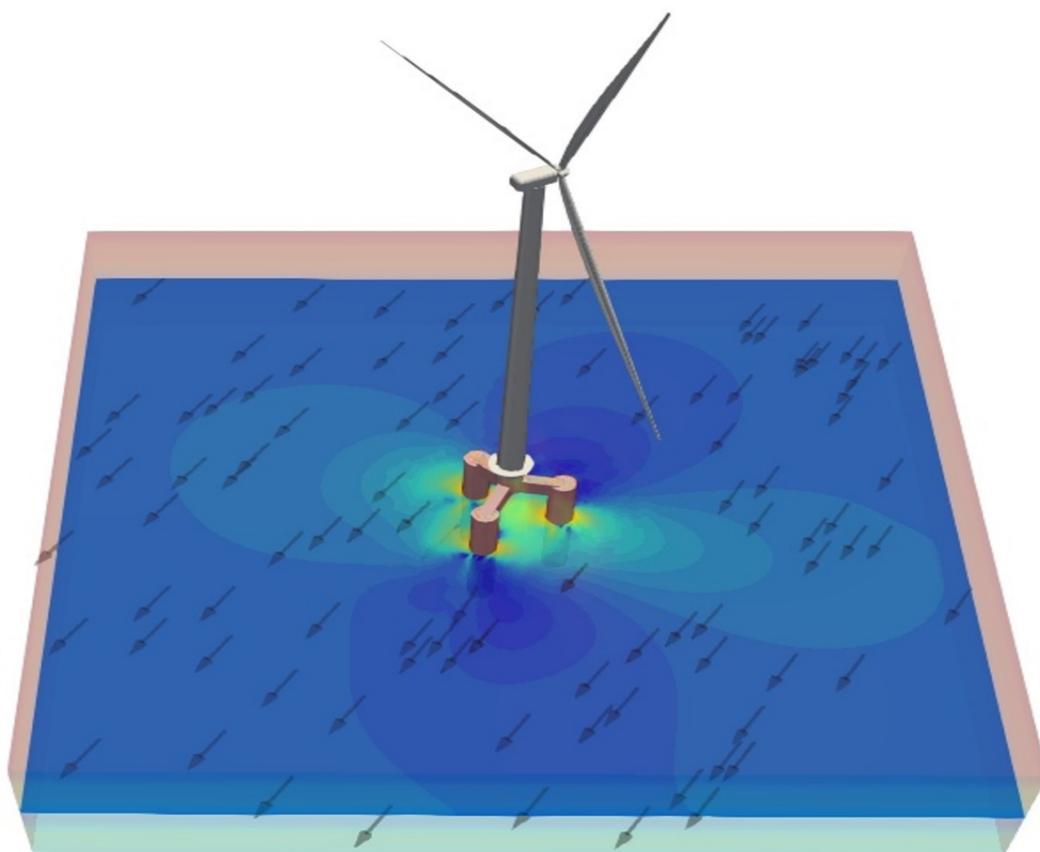
LOCATION

Faculty of Engineering,
Rijeka, Croatia



FEES

Free of charge



ORGANIZERS:



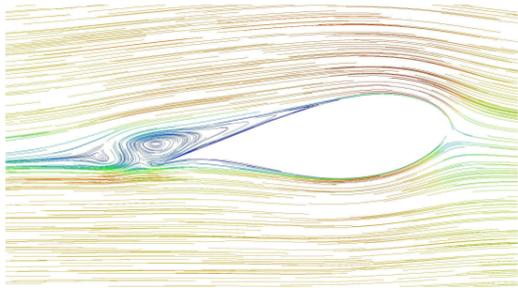
DAY 1 - June 1

- *Fluid mechanics of wind turbines*
- *Offshore wind farms*
- *Physical conditions and wind potential for OWF in the Adriatic*
- *Electric grid and infrastructure for OWF*
- *OWF layout optimization*
- *Air and sea flow around offshore wind turbines*
- *Impact of OWF on wildlife and habitat (OGS)*
- *Mathematical model of ocean species dynamics (OGS)*
- *Industry perspective on OWF (Aventa)*
- *Panel discussion*



DAY 2 - June 2

- *Turbines and airfoils*
- *Wind turbine airfoils: computational fluid dynamics and simulations*
- *Airfoil in a wind tunnel: experiment design and preparation*
- *Airfoil in a wind tunnel: showcase demonstration*
- *Offshore wind farm model foundation types*
- *Making OWF scaled model*
- *Demonstration - 3D printing showcase*
- *Demonstration of OWF scaled model*



DAY 3 - June 3

An organized **visit** to the **Vratruša** onshore wind farm near Senj, including organized transportation, provided meals, and a guided tour of the facility.

PART 2 - ECOLOGICAL ASPECT

- National Institute of Oceanography and Applied Geophysics, Trieste
- From June 15 to 19, 2026
- Transport for participants from Rijeka to Trieste, as well as meals, will be provided
- More details at the registration link



PROJECT PARTNERS:



OGS

ITEH



REGIONE PUGLIA



SINLOC



REPUBLIC OF CROATIA
Ministry of Regional
Development and EU Funds