

EVOLVE

Place, Time and Value study
for Blue Energy across Europe

EVOLVE: Partner Capabilities



WavEC

Offshore Renewables

www.wavec.org

Supported by:



THE UNIVERSITY of EDINBURGH
School of Engineering

Policy and Innovation Group

Who we are

Facts


Founded in 2003



Located in Portugal
Operating **worldwide**


Ownership structure:
7 Associates




International **partnerships**
Collaboration with
universities, authorities
and industry

60% R&D (80% EU)
40% Services (65% foreign)
Over € 11M R&D Funding To Date

Multidisciplinary team
23 permanent staff; 7 PhDs

Our Services



Complex Systems'
Engineering



Environmental Monitoring
& Impact Assessment



Instrumentation
& Data Acquisition



Logistics
& Infrastructure



Site & Project
Development



Strategy
& Policy Advice



Training

Our Business Areas



MARINE RENEWABLE ENERGIES

Promoting the development of marine renewable energy based on R&D, innovation and knowledge transfer.



OFFSHORE AQUACULTURE

Providing technical expertise in Offshore Aquaculture, a sector with growing interest.



OCEAN ENGINEERING SOLUTIONS

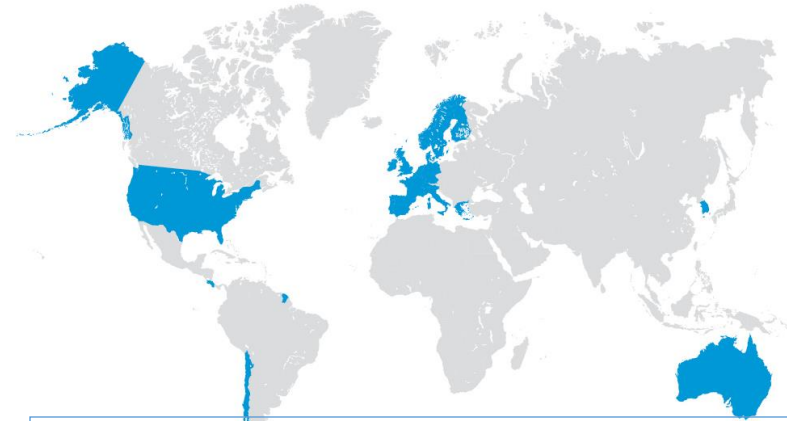
Providing a wide range of specialized technical and engineering solutions for the ocean economy.

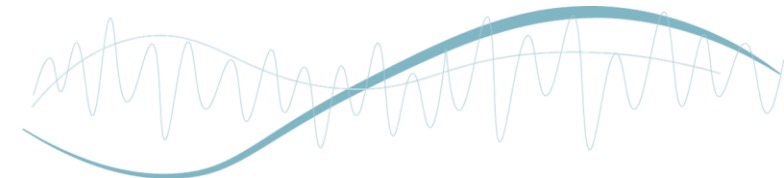
EVOLVE

Our clients



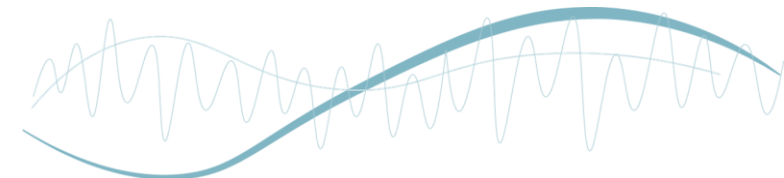






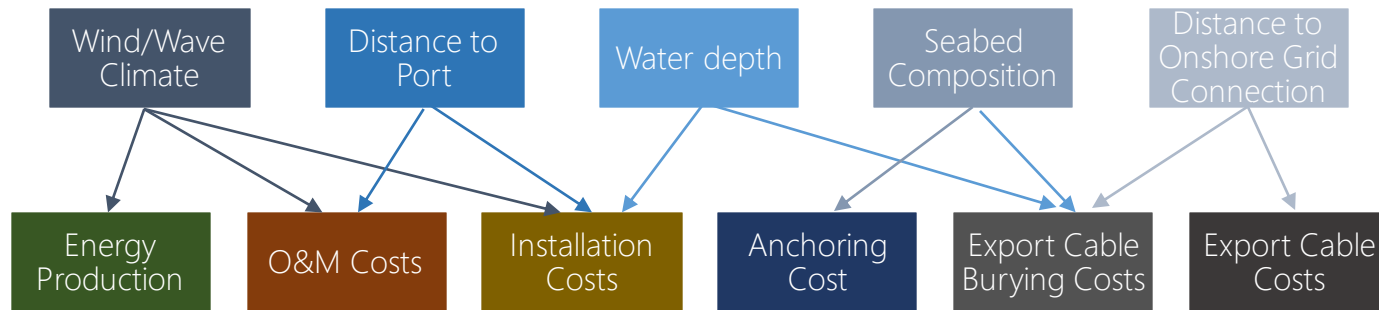
WavEC – Role in EVOLVE

- Leading WP3 on metocean data collection, characterization of wave, tidal and wind energy resources in pilot regions, definition of technology baseline specifications and identification of current and estimation of forecasted electricity demand and supply profiles
- Modelling of strategic energy scenarios (WP4) and microgrid case studies (WP5)
- Dissemination activities

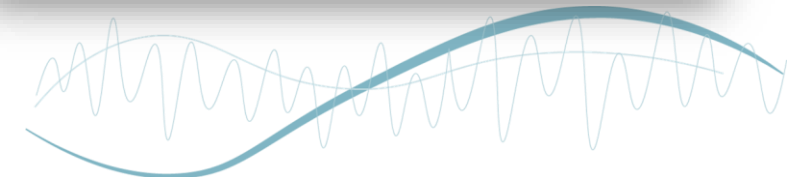
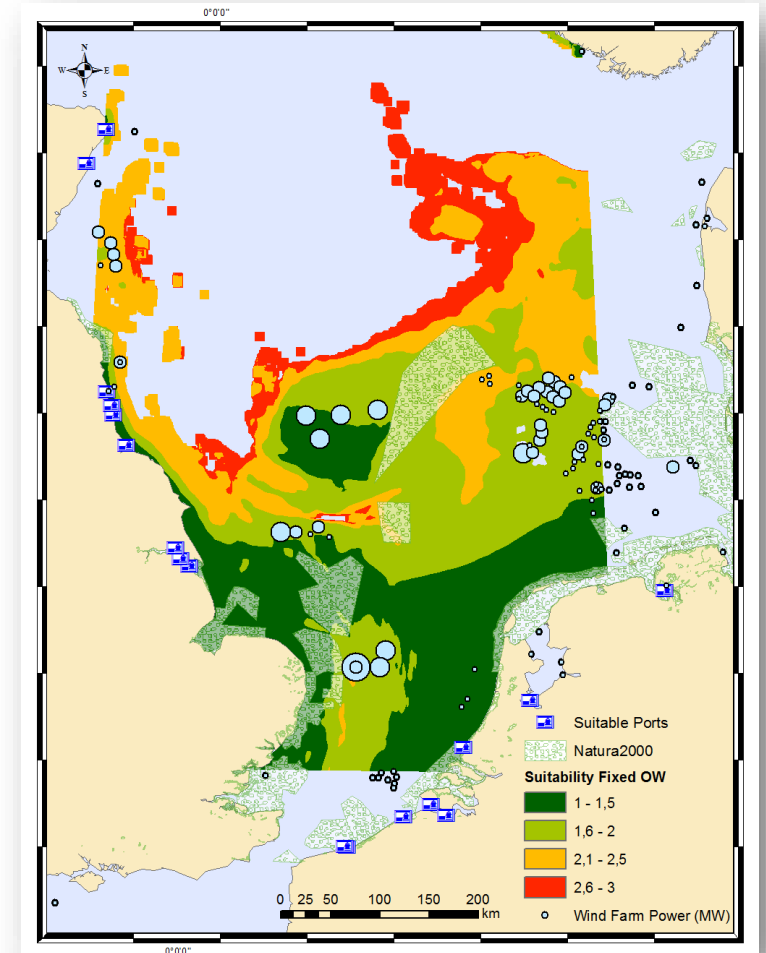


EVOLVE WP3 modelling - OASIS

- GIS-based Multi-Criteria Decision Analysis Ocean Site Selection tool (using scripts in Python) for the prioritization of areas for ORE project development
- Criteria and weight distribution based on objective cost assumptions – reducing subjectivity



- Validation for the North Sea considering existing fixed offshore wind farms



EVOLVE WP5 modelling - OSSES

