

# Interregional partnership for Smart Specialisation on ADVANCED MANUFACTURING FOR ENERGY APPLICATIONS



## Leaders

Led by **Scotland (UK)** and the **Basque Country (ES)**.

The objective of the ADMA Energy partnership is to make the EU a global leader in manufacturing robust high integrity components for marine renewables and offshore energy applications. To this extent, the ADMA Energy Pilot is designing the tools and services that will enable SMEs, big market players, R&D centres, testing facilities, certification bodies and other relevant stakeholders to overcome the barriers that hinder collaboration opportunities leading the way to new solutions, innovations, products for the development of a competitive cross-regional ADMA for energy value chain.



Scotland  
(UK)

Basque Country  
(ES)



## Reference topics

The ADMA Energy Pilot is focusing around the following broad market areas:

1

Offshore  
Oil and Gas

2

Ocean energy  
especially wave and tidal.

3

Offshore  
wind



## Key factors

The main goal is to create new business opportunities and increased growth for the sector by facilitating to European companies address and solve specific challenges at the technological level in the different markets and segments:

For **offshore oil & gas** the challenges include operation in deeper seas, higher pressures and temperatures and with increased levels of corrosive and erosive materials in the flow, whilst maintaining integrity, reducing operation and maintenance costs and meeting more stringent leakage prevention requirements.

For **ocean energy** (mainly wave and tidal energies), the current biggest challenge is the survivability of the marine devices.

For **offshore wind energy** the challenges include increased water depths, more remote and distant site locations, corrosion of towers and foundations and larger size of components, with a resultant increase in logistical challenges for installation, operation and maintenance.

