



**VANGUARD INITIATIVE**  
New growth through smart specialisation

# Advanced Manufacturing for Energy-Related Applications in Harsh Environments

## A Vanguard Initiative pilot project

### **Vision**

The VI “Advanced Manufacturing (ADMA) for Energy-Related Applications in Harsh Environments” pilot project is an initiative to promote interregional cooperation in industrial and technology development among European firms making equipment and components for marine renewable energy, such as wave or offshore wind power, and energy extraction in harsh sub-sea and deep-underground environments, such as oil and gas drilling.

Our goal is to create new business opportunities and increased growth in marine renewables and offshore energy markets. The pilot project aims to help larger companies strengthen their supply chains by connecting them with innovative SMEs all over Europe, and to provide smaller companies with new customers to grow their businesses. Together, we will develop demonstration projects that reduce the risk and cost of developing new solutions to industrial challenges in the subsea market.

### **What’s in it for me?**

The pilot project is working with the commitment of 13 EU regions and an active network of 80 companies. The firms have jointly identified the main industrial challenges the offshore energy sector is currently facing and the key technologies to tackle them. The pilot project will give you access to this network and existing and potential value chains in subsea markets. It will also help you to collaborate and develop market-led demonstration projects with a wide range of companies and stakeholders.



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### Themes for development of democases

- Real condition testing of new materials for offshore: composites, steel, ductile iron and light metals
- Cost-effective power transfer
- Optimised corrosion management - including modelling, sensing and design



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### The Vanguard Initiative

The Vanguard Initiative is a European network of industrial regions seeking to speed up the market uptake of new technologies through the establishment of industry-led, cross-regional joint demonstration platforms. The network has initiated five thematic pilot projects to explore opportunities for developing interregional joint demonstration.

Besides the pilot on ADMA Energy, the other four pilot projects are:

- Bio-Economy - Interregional cooperation on innovative use of non-food biomass
- Efficient and Sustainable manufacturing
- High Performance Production through 3D-printing
- New Nano-enabled products

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