



**VANGUARD INITIATIVE**  
New growth through smart specialisation

# Advanced Manufacturing for Energy Applications in harsh environments

## A Vanguard Initiative Pilot Project

### Vision

The Vanguard Initiative (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 demo cases that reduce the risk and cost of developing new solutions to industrial challenges in the subsea market.

### Pilot project added value

The Pilot project is working with the commitment of 13 EU regions and an active network of 80 companies. The companies have jointly identified the main industrial challenges that 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 support 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 demo cases

- Corrosion
- Manufacturing and handling of large-scale components
- Sensing, instrumentation and remote monitoring
- Reducing the operational and maintenance costs of offshore energy

### Achievements

The NeSSIE project, which is being developed within the framework of the Demonstration Case on corrosion, aims to help companies develop business and investment plans for new solutions in the field of offshore corrosion. The project was approved to receive €860 000 in funding from the European Maritime and Fisheries fund in early 2017 under the theme of blue technologies.

In addition, the Energy Pilot has also been accepted as a recognised partnership under both the European Commission's Thematic Smart Specialisation Platforms in Energy and Industrial Modernisation.

### The Vanguard Initiative

Vanguard Initiative is a European network of industrial regions which seeks to accelerate 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 project on ADMA Energy, the other four pilot projects are:

- Bioeconomy - 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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