What is NeSSIE?

NeSSIE is an EU-funded project identifying three large-scale demonstration projects and investment sources in the field of corrosion and new materials.

NeSSIE draws on North Sea expertise in harsh, subsea environments to develop solutions for the marine renewables industries.

NeSSIE offers technology transfer opportunities for traditional maritime industries into new and emerging sectors.

NeSSIE will accelerate deployment and cost reductions in the wave, tidal and the offshore wind sectors.

NeSSIE will impact the North Sea Basin economy significantly – developing global solutions to deliver growth and high value-added jobs for the North Sea, Europe and beyond.

NeSSIE stems from cooperation established through the Vanguard Initiative ADMA Energy Pilot.
A coalition of European regions committed to boosting the growth of their companies, based on technological development, inter-regional cooperation, bottom-up entrepreneurial innovation and industrial leadership.
Smart Specialisation (S3)

Integrating European value chains

Improving knowledge exchange

Fostering industry-led, inter-regional collaboration

Generating competitive economies of scale

Co-funded by the European Maritime and Fisheries Fund

www.s3vanguardinitiative.eu
One Methodology, Five Pilots

Learn
Connect
Demonstrate
Commercialise

Bioeconomy
3D Printing
ADMA Energy
New nano-enabled Products
Efficient & Sustainable Manufacturing

North Sea Solutions for Innovation in Corrosion for Energy
The ADMA Energy Pilot

- EU becomes **global leader** in robust, high integrity equipment and components for blue growth
- 13 VI Regions – led by **Scotland** and the **Basque Country**
- Connecting supply chains across **all marine sectors**
- Offshore and unconventional **oil & gas, marine renewables** and **deep sea mining**
ADMA Energy Demonstration Cases

Corrosion Offshore operation & maintenance

Sensing & remote monitoring

Manufacturing large-scale components

Industry-led demonstration
New opportunities for SMEs
Opening Europe-wide value chains
Old challenges, new solutions

Co-funded by the European Maritime and Fisheries Fund

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NeSSIE: why corrosion?

A costly fact of life in marine renewables and offshore energy sectors

Surface deterioration of metal components can lead to sudden failure

Safety risk

Impact on operation, maintenance and performance
What NeSSIE will deliver

NeSSIE will scope three investment-ready demonstration projects led by key industry players, which will deliver high-value manufacturing opportunities to the North Sea and wider European supply chains

Demonstration roadmap
- Maps corrosion solutions in existing sectors
- Shows a pathway to address corrosion issues in wave, tidal and offshore wind
- Prioritises major challenges to commercialising the marine renewables sector
- Establishes a baseline for other sectors and technology challenges

Impact
- Greater collaboration within the supply chain – between developers and Original Equipment Manufacturers (OEMs)
- Genuinely market-focused demonstration projects
- New opportunities for SMEs to create jobs and grow in the Blue Economy
Project structure

**Work Package 1: Project Management**

WP2: Mapping current corrosion solutions and new materials in the offshore sector and investment opportunities

WP3: Development of Technology Roadmap and Investment Plan

WP4: Building the Value Chain

Work Package 5: Develop the bankable/ready to invest demonstration projects

Work Package 6: Communication, Dissemination and Exploitation
Delivery Structure

European Commission

Project Coordinator

Steering Committee (All Partners)

Project Delivery Team (All work package leads)

Communication and Dissemination

Industry Advisory Group

Demo Projects

Industry Working Group 1

Industry working group 2

Industry working group 3
Industry Groups

Key companies, project partners, academia and supply chain companies from across the regions

Engaged in the development of the roadmap

Active in the development of the three demonstration projects

Industry engagement will be overseen and managed by the project steering committee
Who gets involved?

Offshore renewables project developers
wave | tidal | offshore wind

Ambitious supply companies in corrosion and new materials solutions for the offshore environment

Supply chain companies from traditional marine sectors looking to develop new and global market opportunities
For further information...

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