



ADMA Energy Pilot

2025 Results and 2026 Outlook

February 24th, 2025

Co-leading regions: Emilia-Romagna | Lombardy

Speakers: Stefano Valentini, Desiree Scalia

Contributors: Andrea Díaz Barredo, Bart Teerlinck, Roberta Padovan, Fabrizio Guarrasi

ADMA in a nutshell

THE SECTOR

The global offshore wind market will increase from 39.97 billion USD in 2024 to 65.04 billion USD by 2030
Offshore wind energy is becoming an essential component of Europe's strategy for decarbonization
The marine renewables sector offers substantial economic benefits, fostering energy self-sufficiency and creating job opportunities in manufacturing and maintenance.

ADMA Community and Industrial Ecosystem (February 2026)

7 core member regions
1 observer regions (Cantabria)
40 stakeholders engaged
Clusters, SMEs, RTOs, regional authorities

Regions and key Actors (February 2026)

Emilia-Romagna – ART-ER + Regione Emilia Romagna
Lombardy – LE2C
Flanders – Sirris
Asturias – FAEN
Friuli Venezia Giulia – Mare FVG + Regione FVG
Malopolska – Polish Composite Cluster + Malopolska Region
Wales – Government of Wales

Annual specific objectives 2025

- **Expand and strengthen the ADMA partnership:** new members (regular/associated), stronger governance (Governance Structure of the Partnership - Support Service S3 COP)
- **Strengthen synergies with S3 partnerships and pilots:** new collaborations/joint initiatives within the S3 Blue Economy platform
- **Develop and submit interregional proposals and strengthen Vinnovate:** at least 2 aligned proposals; stronger Vinnovate integration on Blue Economy topics
- **Develop and revise demo-cases:** structured portfolio and development of investment-ready subprojects
- **Enhance communication and external visibility:** increased visibility, engagement, success stories
- **Manage the pilot budget:** efficient allocation and timely reporting

Key activities 2024 and 2025

| In-Person Activities | Online Activities |
|---|---|
| Offshore Energy Exhibition 2025 (Amsterdam) Cross-Pilot Matchmaking Event 2024 (Key Energy) S3 Conferences: Brussels and Rimini | S3CoP thematic sessions and conferences Cross-pilot exchanges Funding mapping Demo-case portfolio survey and assessment ADMA Partnership Meetings |



Offshore Energy Amsterdam Nov 2025

Hosted companies

Sirris (Flanders), Navalprogetti S.r.l. (FVG),
ART-ER (Emilia-Romagna), Agnes (Emilia
Romagna) (Lombardy)

Main objective

to facilitate matchmaking with European and international operators involved in offshore wind development, installation, geosurvey, subsea infrastructure and technology standardisation.



Matchmaking events in the last years

Study visit in Scotland

June 2023 (Aberdeen)
Matchmaking Event with 100 participants
Technical presentations
Visit to Kincardine Offshore wind farm



Study visit in Poland

October 2023 (Krakow)
Cross-pilot study visit
Visit to Lukaszewicz - Institute of
Ceramics and Building Materials and
Municipal Transport Company



Key outputs and results 2025

Status on current active demo-cases (leadership, involved entities, progress towards commercialisation, ...): survey among ADMA members to assess demo-case and scout on new emerging areas

Additional info of interest: New areas include offshore decommissioning, mooring and anchoring.

Status on concrete projects developed within democases (type of projects, which regions involved, ..): Companies in FVG are working on concrete projects. Some examples: ESTECO developed optimisation and digital twin tools, Navalprogetti worked on structural design and anchoring, and Nablawave explored wave energy integration.

Status on funding of projects (projects submitted for funding, positive/negative funding decisions): MARIS3-NET (EMFAF) – reserve list and H2-IVC on hydrogen value chains (I3) submitted but not funded. Support to VINNOVATE proposals ongoing. Support to I3Float – funded. 2

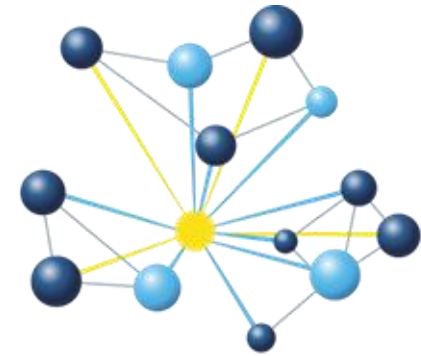
Vinnovate projects funded in synergies with ADMA: BLATEM 2.0 – Advanced control and monitoring systems for tidal turbine blades, improving efficiency and durability in offshore environments and FOSCWA – Subsea connection systems for floating offshore renewable energy arrays, aligned with power transfer and offshore manufacturing (Wales, Galicia).

Democases

| Power Transfer in the Sea | Next Generation Materials | Joining of Large-Scale Components |
|--|---|--|
| <p><u>Focus</u> Integrated offshore renewable systems Wind + hydrogen + storage Digital twins and offshore infrastructures</p> <p><u>2025 Achievements</u> Confirmed as most active demo-case Linked to hydrogen cross-pilot Linked to I3Float Companies developing optimisation tools, structural design, anchoring solutions</p> <p><u>Industrial Direction</u> Test hubs under development Hydrogen-enabled offshore hubs</p> | <p><u>Focus</u> Lightweight and corrosion-resistant materials Coatings and composites (SME-driven niches)</p> <p><u>2025 Achievements</u> Portfolio repositioning Alignment with hydrogen storage & simulation Identification of new application areas</p> <p><u>Industrial Direction</u> Focus on advanced materials and components for hydrogen storage system</p> | <p><u>Focus</u> Hybrid joining for offshore structures Corrosion and fatigue resistance Reliability and standardisation</p> <p><u>2025 Achievements</u> SME knowledge exchange Composite hybrid joints development Identified as niche but strategically relevant</p> <p><u>Industrial Direction</u> Long-term structural integrity for harsh environments</p> |

Key outcomes VS challenges

| Beyond activities: real outcomes | Key challenges and lesson learned |
|--|--|
| <p>New interregional industrial relationships Hydrogen–offshore integration strengthened Structured demo-case governance model Stronger positioning within S3 Sustainable Blue Economy Funding alignment</p> | <p>Niche market Proposal success rate (learning from reserve lists) Importance of portfolio-based prioritisation Focused offshore positioning instead of thematic dispersion</p> |



VANGUARD INITIATIVE
New growth through smart specialisation

Results 2025

Q&A

Annual specific objectives 2026

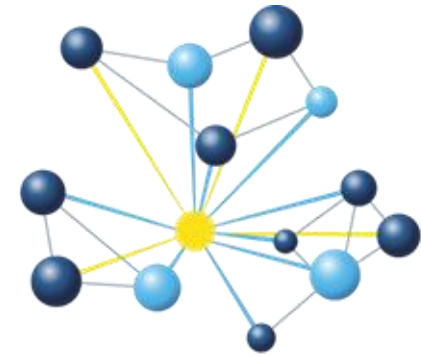
- **Consolidate and selectively expand ADMA:** operate with 7 committed full member regions (incl. Wales) + attract 1–2 new strategic regions
- **Contribute to EU strategic initiatives on floating offshore wind:** formal contribution to the i3Float Innovation Roadmap (possible joint initiative in June 2026 Italy)
- **Support demo-case development and repositioning:** updated overview of demo-cases and analyse regional capabilities aligned to industrial needs
- **Strengthen interregional funding opportunities:** alignment between i3 cascade funding and Vinnovate + at least 1 interregional proposal prepared/submitted
- **Enhance communication and external visibility:** higher engagement and visibility in S3 Blue Economy ecosystem
- **Manage the pilot budget:** efficient allocation and timely reporting

Expected results and outcomes 2026

| Expected results and outcomes | Key activities |
|--|---|
| <p data-bbox="774 429 924 468">Targets</p> <ul data-bbox="471 486 1230 676" style="list-style-type: none"><li data-bbox="588 486 1110 525">9 committed member regions<li data-bbox="542 536 1156 575">1 interregional proposals submitted<li data-bbox="672 586 1026 625">4 active demo-cases<li data-bbox="471 636 1230 675">8 organisations connected via matchmaking <p data-bbox="652 743 1049 782">Expected Outcomes</p> <ul data-bbox="471 793 1225 983" style="list-style-type: none"><li data-bbox="616 793 1085 832">Higher industrial validation<li data-bbox="629 843 1072 882">Stronger SME integration<li data-bbox="616 893 1085 932">Increased funding leverage<li data-bbox="471 943 1225 982">Clear offshore manufacturing specialisation | <ul data-bbox="1294 429 2102 901" style="list-style-type: none"><li data-bbox="1493 429 1905 468">Selective enlargement<li data-bbox="1294 479 2102 518">Contribution to I3Float Innovation Roadmap<li data-bbox="1327 529 2068 629">Interregional “state of the art” industrial mapping<li data-bbox="1319 641 2076 741">Alignment between I3 cascade funding & Vinnovate<li data-bbox="1416 752 1982 791">Collaboration with other pilots<li data-bbox="1352 802 2046 841">Participation in Offshore Energy 2026<li data-bbox="1340 852 2058 891">Consortium building for new proposals |

New areas of intervention

| OFFSHORE DECOMMISSIONING | MOORING AND ANCHORING |
|--|--|
| <p>Status: Emerging</p> <p>Focus: Remove or repurpose old oil & gas platforms in a sustainable, circular way.</p> <p>Challenges: High costs, technical barriers (asbestos removal, access to structures), lack of standard procedures.</p> <p>Next Steps: Develop guidelines & standards, map best practices, explore reuse for aquaculture or research.</p> | <p>Status: Emerging</p> <p>Focus: Ensure floating offshore platforms (wind, wave) are stable, reliable, and affordable.</p> <p>Challenges: Limited innovation, high costs of anchors, need for scalable solutions.</p> <p>Next Steps: Promote shared anchors, lighter synthetic materials, collaborative R&D, and integration with floating demos.</p> |



VANGUARD INITIATIVE
New growth through smart specialisation

Action Plan 2026

Q&A



Thank you!!!

ADMA Energy Pilot contacts

Stefano Valentini (ART-ER): stefano.valentini@art-er.it

Fabrizio Guarrasi (LE2C): f.guarrasi@energycluster.it

Desiree Scalia (ADMA Secretariat): desiree.scalia@gmail.com