



## Newsletter #2 – April 2026

In this newsletter, you will learn more about the eWAVE project's latest and upcoming activities.

Do you want to stay informed about the latest eWAVE news? Please stay tuned via our website [www.ewave-project.eu](http://www.ewave-project.eu), or [follow us on LinkedIn](#)

### WHAT IS NEW?

#### General Assembly meeting at DAMEN in Gorinchem-Netherlands

On 14–15 October 2025, the partners of the eWAVE project convened at [DAMEN Shipyards in the Netherlands](#) for the project's second General Assembly meeting, kindly hosted by DAMEN.

The two-day meeting brought together all consortium members to review the project's progress, share updates from each work package, and plan the next steps in the development of high-voltage, scalable, and modular battery and distribution systems for sustainable waterborne transport.



#### Progress and Key Achievements

During the meeting, partners celebrated the successful completion and submission of important deliverables, including the Market Needs & Regulation Report (D2.1) and the Requirements Architecture (D2.2). These achievements mark significant progress in identifying market demands, regulatory frameworks, and system-level requirements for next-generation electric vessels.

Discussions also focused on deliverables, such as the Specifications of Battery System (D3.1) report which was successfully submitted in the meantime, as well as ongoing work on battery design, system safety, and data management. Partners reviewed the alignment between technical work packages and outlined a coordinated path forward to ensure seamless integration across all project activities.



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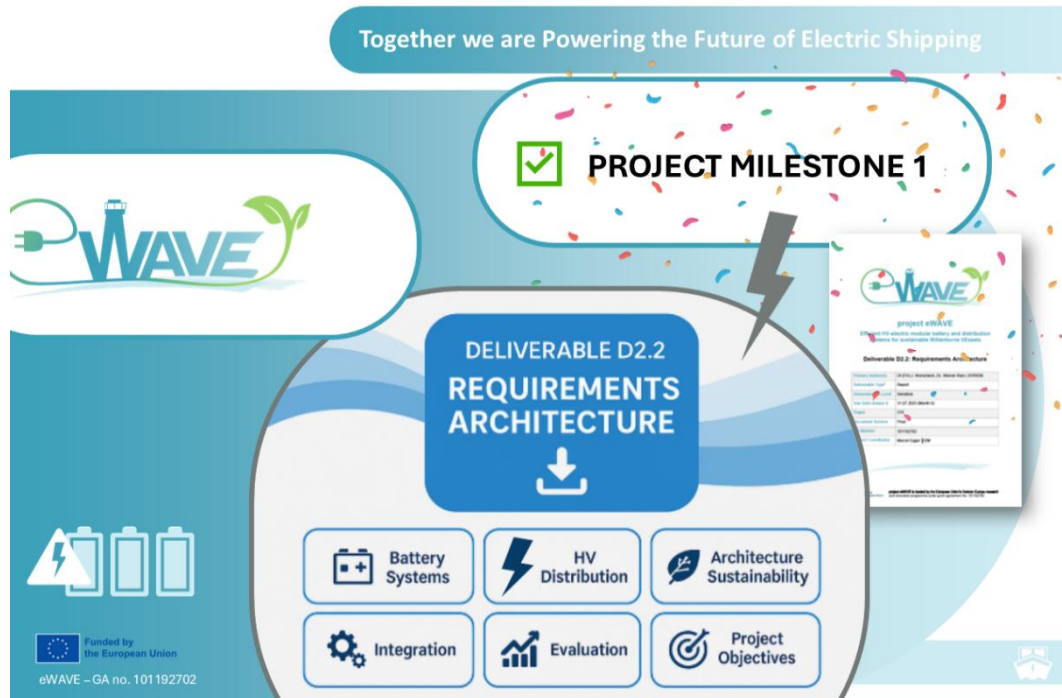


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### Milestone 1 Achieved! Deliverable D2.2 – Requirements Architecture

We are excited to announce that **eWAVE** has successfully delivered its first project milestone: **Deliverable D2.2 – Requirements Architecture**.

This foundational document captures the **collected, balanced, and structured requirements** that will guide the research, development, integration, demonstration, and evaluation phases of the project. It represents the collective work of all **18 eWAVE partners** and sets the stage for the innovation journey ahead.



The deliverable outlines:

- Methodology for requirements elicitation, structure, and change management.
- A comprehensive set of requirements across key areas such as:
  - **Battery Systems** (271 requirements)
  - **HV Distribution & System Control** (47 requirements)
  - **System Architecture, Sustainability & Circularity** (126 requirements)
  - **Implementation, Integration & Demonstration** (49 requirements)
  - **Techno-economic & Ecological Evaluation** (44 requirements)
  - Plus 35 requirements covering **overall project objectives**.

Together, these requirements form the backbone of eWAVE, ensuring the reliable interaction of hardware, software, and innovative concepts in the future **demonstrator vessel**. [You can download the public summary of Deliverable D2.2 here](#)



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### Milestone 2 Achieved! Deliverable D3.1 – Specifications of Battery System

The eWAVE project has achieved its second Milestone with the delivery of our latest deliverable D3.1. The deliverable outlines the specifications for a cutting-edge battery system designed to revolutionize the maritime sector.

Key Highlights of the specifications are:

- Modular Architecture with 24-series modules, ensuring scalability and flexibility for various maritime applications.
- High Voltage Operation with a baseline targeting a string operated around 1.5 kV DC

Together we are Powering the Future of Electric Shipping

**PROJECT MILESTONE 2**

**Deliverable D3.1: Specifications of Battery system**

**Deliverable D3.1: Specifications of Battery system**

project eWAVE  
Efficient HV-electric modular battery and distribution systems for sustainable Waterborne VEssele

**Deliverable D3.1: Specifications of Battery system**

Primary Author(s): Dr. Murat Kurubacak | VIF  
Deliverable Type: Report  
Dissemination Level: Sensitive  
Due Date (Annex I): 30.09.2025 (Month II)  
Pages: 94  
Document Version: Final  
GA Number: 101192702  
Project Coordinator: Marcel Egger | ICM

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This deliverable sets the foundation for the development and procurement activities in the eWAVE project, paving the way for the next generation of sustainable, all-electric vessels. [You can download the public summary of Deliverable D3.1 here](#)



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### eWAVE launches two interview videos

eWAVE started launching its first interview videos with eWAVE team members. In these videos, the eWAVE team specialists give insight into the technology development in the eWAVE project and the impact this ambitious journey is expected to have.

The first interview video was launched last November, featuring recordings made during the project's kick-off meeting in Graz. In the video, members of the coordination team—**Anesa Begovic** and **Aldo Ofenheimer**—together with Scientific Coordinator **Olve Mo** and Technology Roadmapping Specialist **Nicky Athanassopoulou** share their vision for the eWAVE project.

The video also includes highlights from the kick-off meeting, capturing the energy, passion, and collaboration that define the eWAVE spirit: “Powering the Future for Electric Shipping”.

[Watch the video here](#)



The second interview video was recorded during the project's General Assembly meeting at DAMEN in Gorinchem, the Netherlands. In the video, Project Coordinator **Marcel Egger** (i2m), researcher **Vaidehi Gosala** (DLR Institute of Maritime Technologies and Propulsion Systems), and research engineer **Peter Rampen** from the R&D department of DAMEN share their perspectives on the technological developments within the eWAVE project, the first results achieved, and the impact this ambitious journey aims to deliver.

The video also features highlights from the General Assembly, including a tour of DAMEN's Lighthouse Experience Centre.

[Watch the video here](#)

### Clustering activities with our sister project HARPOONERS and other initiatives

eWAVE started the collaboration with project [HARPOONERS](#). HARPOONERS is the sister project of eWAVE, granted under the call topic “[HORIZON-CL5-2024-D5-01-11 – Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport \(ZEWT Partnership\)](#)”. The collaboration was officially launched through mutual project presentations during the General Assembly meeting of the sister project. As such, a key highlight of the eWAVE meeting was the presentation by the HARPOONERS team, providing valuable insights into their objectives, technological approach, and areas of synergy with the eWAVE project.



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### HARPOONERS

Project HARPOONERS develops a unique modular AC battery system that integrates key components into a compact configuration, eliminating the need for separate transformers and cooling systems. This approach will enable more reliable BESS solutions for all-electric and hybrid vessels, supporting the transition to a cleaner maritime industry. The HARPOONERS consortium consists of 13 partners and is led by [FUNDACION TECNALIA RESEARCH & INNOVATION](#)

Project eWAVE also initiated collaboration with several ecosystems and clusters of battery and shipping projects to ensure synergies and information exchange. These include the EUWT Synergies Ecosystem, the Solid4B cluster, and the HighBatt EU cluster.



EUWT  
Synergies  
Ecosystem

[more about EUWT-SE](#)

SOLID4B

[more about SOLID4B](#)



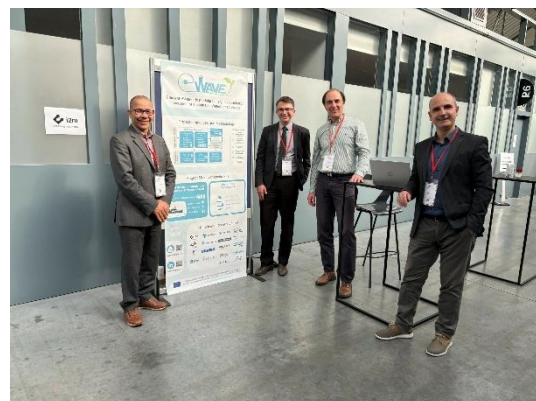
[more about HighBatt](#)

### eWAVE Showcased at EARPA FORM Forum 2025

eWAVE project was presented at the [FORM Forum 2025 in Brussels](#), which brought together more than 200 participants from academia, industry, and European institutions to discuss how Europe can safeguard its competitive edge during the transition to sustainable mobility.

Organised by the European Automotive Research Partners Association (EARPA), the biennial forum is a key meeting point for the mobility research community. This year's discussions focused on electrification, innovation, and cross-sector collaboration as drivers of Europe's future transport systems.

Although primarily focused on road mobility, the event highlighted important synergies between **automotive and maritime electrification**. During the poster session, eWAVE engaged with participants on topics such as high-voltage battery architectures, safety and performance standards, and the role of circular materials.



By presenting its work on **high-voltage modular battery and distribution systems for all-electric vessels**, eWAVE demonstrated how collaboration across transport sectors can accelerate the transition toward climate-neutral mobility.



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### Advancing battery safety: from automotive research to maritime applications

At a recent exchange event organised by eWAVE partner **SYRION**, **Dr Emanuele Michelini** from the Battery4Life competence centre presented cutting-edge research on the **State of Safety (SoS)** of lithium-ion batteries. SoS is an emerging concept that complements the well-established State of Health by assessing whether aged batteries still pose safety risks during operation or at the end of their first life.



#### eWAVE: State of Safety (SOS) of lithium-ion batteries

27.01.2026



The presentation focused on how battery degradation mechanisms can be translated into safety-relevant indicators using data already available in standard battery management systems, without requiring additional sensors. Test results showed that these indicators can reliably support safety classification of batteries for reuse, second-life applications, or recycling.

Building on these insights, **eWAVE is exploring the development of a State-of-Safety estimation approach tailored to maritime batteries**, addressing the specific operational conditions, safety requirements, and regulatory context of the maritime sector.

[Read the full article on the eWAVE website](#) to learn more about the State of Safety concept, recent research findings, and how eWAVE is advancing battery safety for maritime applications.



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### eWAVE advances work on the Digital Battery Passport for maritime applications

At a recent exchange event hosted by eWAVE partner **SYRION**, experts from **acatech** presented the latest developments of the **BatteryPass-Ready** project, which aims to deliver a test environment that will enable industry and SMEs to verify their battery passport systems before the regulatory deadline. The event, held on **10 February 2026**, attracted strong interest from the eWAVE consortium and sparked active discussion on data requirements, testing methodologies, and upcoming regulatory milestones.



#### BatteryPass-Ready: Delivering a test system to advance battery passport readiness

Dr. Johannes Simböck  
Project Lead

Sven Geppert  
Scientific Officer

acatech - National Academy of Science and Engineering

10.02.2026

With the Digital Battery Passport set to become mandatory from **February 2027**, eWAVE is building on these initiatives to develop the foundations of a **Digital Battery Passport tailored to maritime batteries**, addressing the specific needs of the shipping sector. This work is being carried out in close collaboration with the **Maritime Battery Forum (MBF)** and its working group on 'Battery Passports for Maritime Batteries', with SYRION acting as the central interface between the MBF and **eWAVE**.

[Read the full article on the eWAVE website](#) to learn more about the BatteryPass-Ready project, upcoming test environments, and eWAVE's role in advancing digital battery passports for maritime transport.



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### eWAVE presentation at Solid4B cluster workshop

On 17 September 2025, **Mohsen Akbarzadeh** of Flanders Make represented the eWAVE project in the [Solid4B Cluster](#) workshop on the future of solid-state batteries.

In the workshop, Mohsen participated in the round table discussion and presented “A Maritime perspective on application of Batteries to Power the Future of Electric Shipping”, revealing the highlights of our first result: deliverable 2.1 – Market Needs & Regulation Report.

Are you curious about more details about this workshop, feel free to have a look at [this article](#)

### eWAVE Media Kit launched

To support communication and outreach activities, the eWAVE project has launched its **official Media Kit**, providing partners and stakeholders with a set of ready-to-use communication materials. The Media Kit includes key project visuals, the project flyer, presentation materials, and other dissemination resources that help explain the project’s objectives and innovations.

These materials are designed to ensure a **consistent and recognisable project identity**, while making it easier for consortium partners, media representatives, and stakeholders to share information about eWAVE and its progress.

The graphic is divided into three main sections:

- Consortium:** A map of Europe with lines connecting to logos of consortium partners: SINTEF, Fraunhofer STAB, DAMEN, TOCH Concepts, IM Engage, MULTI, MAKE, SIEMENS, farplas, siro, SYRION, i2m, and Virtual Vehicle.
- Facts and Figures:** 48 months Started 1-2-2025, EU contribution € 7.494.184,50, 18 Partners from 9 countries.
- Contact Information:** contact our eWAVE coordination team: ewave@i2m.at

At the bottom, there are icons for a battery, a globe, and LinkedIn, with the website ewave-project.eu and the LinkedIn profile eWAVE project.

**Powering the Future for Electric Shipping**

**Efficient HV-electric modular battery and distribution systems for sustainable WAterborne VEssels**

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The Media Kit is **available through the project website** and will be regularly updated as new communication materials and project results become available. Stakeholders are encouraged to use these resources when presenting or promoting eWAVE and its mission of **Powering the Future for Electric Shipping**.



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### WHAT IS NEXT?

#### Coming soon!! The eWAVE concept video

The eWAVE project will soon release its concept video, presenting the project's vision, technological approach, and expected impact on the future of electric shipping. The video will provide a clear overview of how eWAVE is advancing high-voltage battery and power distribution systems for sustainable maritime transport.



#### General Assembly meeting at Infineon Technologies in Neubiberg (near München) – Germany

Our next General Assembly is scheduled on 29 and 30 April 2026. We will be kindly hosted by Infineon Technologies AG in Neubiberg near Munich. Infineon is a global leader in semiconductor solutions for power systems and the Internet of Things (IoT).

Infineon plays a key role in advancing the next generation of battery management technology in eWAVE by developing a wireless battery management system (BMS) based on Bluetooth Low Energy technology. Curious about Infineon? [Have a look at their website.](#)





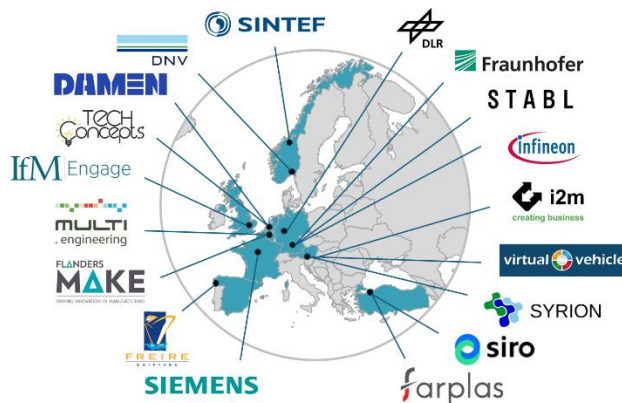
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### ABOUT THE eWAVE PROJECT

#### Our goal? > Powering the Future of Electric Shipping <

eWAVE (Efficient HV-electric modular battery and distribution systems for sustainable WATERborne VESsels) is a groundbreaking EU-funded project focused on high-voltage (HV) technology for battery powered vessels.

The maritime sector faces challenges in transitioning to sustainable, all-electric vessels. Key obstacles include low energy density in current battery systems, safety concerns, and the need for durable, sustainable materials. Economic viability also remains a significant barrier for widespread adoption.



To address these issues, the EU-funded research project eWAVE brings together 18 experts from research, technology, and shipbuilding to advance high-voltage (HV) technology for battery powered vessels. By developing high-energy-density batteries, scalable modular systems, and an integrated safety concept, eWAVE aims to enhance the sustainability, safety, and efficiency of maritime transport. The project will also explore circularity through bio-based materials and recycling, supporting the EU's goal of reducing the environmental footprint of shipping.

Funded through the European Union's Horizon Europe Framework Programme for Research and Innovation, the project will receive EUR 7,5 million over the next four years.

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