



EPISODE will establish an European-based, globally competitive battery supply- and value chain that supports economic prosperity and net-zero energy transition.

Dear reader,

Welcome to our first EPISODE newsletter!

In this 42 months project, the EPISODE consortium will pave the way for a European-made, sustainable sodium-ion battery (SIB) technology, bringing together innovation, safety, and circular design.

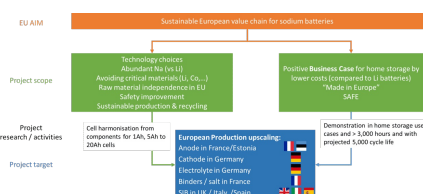
EPISODE aims to develop sodium battery technology based on abundant available low-cost materials, with attractive energy density and power metrics. EPISODE's battery will be durable non-toxic, non-critical, intrinsically safe and recyclable. Furthermore, the production processes for the anode, cathode, electrolyte solutions, binders and cell will be sustainable, energy-efficient and demonstrated at industrial mass manufacturing scale. The products developed in EPISODE create a stronger, more resilient and competitive energy storage systems. As such, "made-in-Europe" sodium modular battery systems with favourable CAPEX, OPEX and carbon footprint are produced as novel energy storage application technologies. The application of these modular batteries will be demonstrated for domestic installations and will be projected towards large utility installations of multiple MWh. Thus, EPISODE will establish an European-based, globally competitive battery supply- and value chain that supports economic prosperity and net-zero energy transition.

Consortium



The consortium members of the EPISODE project are located in 7 different European countries.

You can click on the map to find project partners located in a specific city or country.



See our [website](#) for more information.

EPISODE aims establishing a sustainable European value chain for SIBs production. The focus is on upscaling the production of battery materials followed by industrial manufacturing of key components such as anode, cathode, electrolyte, binder and salt, and separator.

Results

We are pleased to share that a key EPISODE project deliverable is now available for download on our website. The report provides insights into the latest progress on setting

requirements for the future outcomes of our research activities advancing sodium-ion battery technologies in Europe.

Read and download the deliverable [here](#).

Get to know Martina Romio from FAAM-FIB S.p.A.

In our first newsletter we would like to introduce to you our Technical Coordinator, Martina Romio from FAAM-FIB S.p.A. At FAAM, she works as R&D Scientist and Technical Leader in the Episode project and she will support in the coordination, and engage with the partners in the consortium to define requirements and specifications for materials, cells performance and safety protocols for battery modules. She will actively have her hands on the upscaling of the Episode technology from coin cells to industrial multilayer soft pouch cell (20 Ah).



You can read the full interview [here](#).

During the project, we will introduce all our partners to you with our "Coffee Break interview". You can find all the interviews on our [website](#).

General Assembly in Karlsruhe



On 25-26 September, the EPISODE consortium convened at the EnBW headquarters in Karlsruhe for its General Assembly meeting.

A dedicated workshop was held during the 2nd General Assembly of EPISODE to validate and prioritize sustainability indicators pre-selected by experts from KIT and UAH. Using the Deck of Cards (DoC) weighting method and the HELDA (Helmholtz MCDA) software, project partners ranked 13 key performance indicators covering the four sustainability dimensions. The results revealed that Material Cost, Supply Risk, Resource Consumption, Resource Autonomy, and Supply-Chain Transparency collectively accounted for over 60% of the total weighting, underscoring a strong emphasis on cost and supply-chain resilience. Environmental criteria such as GHG emissions and circularity were moderately weighted, while social indicators like Fair Salary and Forced Labor held minimal influence. The workshop highlighted the need for future re-balancing to better capture long-term climate and ethical commitments. The outcomes form the basis for refining the EPISODE sustainability framework and for developing a comprehensive multi-criteria decision analysis (MCDA) model to guide material selection and prospective assessments in subsequent project stages.



The second day focused on aligning the next steps for the coming months, and also included a visit to a nearby EnBW power plant — the site of the first EnBW-led battery energy storage system (BESS) testing location.

More info to be found at [our website](#).

Previous and future activities

- Partner University of Alcalá (UAH) has presented the project at the 2nd international Watts Up conference (see [UAH presenting at the 2nd International Watts Up Conference - EPISODE](#)).
- Partner UP Catalyst (UPC) will be present with a booth at the Future Battery Forum at the end of November and at the Global Battery Alliance in December 2025 in Brussels for discussion on hard carbon as anode materials for (sodium) batteries.

EPISODE Newsletter

To keep you (with an interest in the progress of Na-ion batteries) up to date on the progress of EPISODE, we strive to send out regular newsletters with interesting articles about the newest achievements and developments. Don't miss out on new episodes of this and sign up for our newsletter!

Sign up here

EPISODE partners



Acknowledgement & Disclaimer

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