



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

Dear reader,

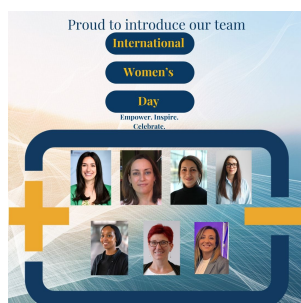
We are pleased to share the latest updates from the EPISODE project in our 2nd Newsletter. Episode ended 2025 by reaching the first milestone in its mission to develop next-generation sodium-ion battery technology based on abundant and low-cost raw materials on the selection of refined electrode active materials.

In the near future, Episode will be reaching other key milestones on cathode and anode scaling up towards 2 and 10 kg batches as well as the identification and decision on the set of relevant KPIs for the sustainability analysis. So please follow us on [LinkedIn](#) our [website](#) and keep yourself up-to-date by registration to the [Episode newsletter](#).

Best regards,
The Episode team

Milestone 1 "Refined material selected" achieved

To reach this milestone, WMG, Cidetec, UP Catalyst and Arkema refined and selected the cathode and active materials which were combined with a set of binders and electrolytes also developed within the project. Two generations of layered transition metal oxide cathode active materials (CAM) were developed. The polycrystalline powder was selected as cathode material demonstrating a practical specific capacity of 141.6 mAh g⁻¹ and a first-cycle efficiency (FCE) of 92.6%. It is worth highlighting that the cathode development was carried out both under dry-room and ambient conditions. Despite the high moisture sensitivity of the CAM, electrodes fabricated under ambient conditions delivered capacities comparable to those produced in a dry-room environment. In parallel, three generations of bio-based hard carbon (HC) powders were produced using distinct synthesis approaches and tested as anode active materials. The selected HC generation achieved a practical specific capacity of 319.72 mAh g⁻¹. Through careful experimental design, partners identified the optimal composition for half and full laboratory cells. This milestone represents a significant step forward for Episode, enabling future electrode upscale and manufacture of pouch-cell fabrication at pilot and production scale.



International Day of Women and Girls in Science

The Episode consortium celebrated the International Day of Women and Girls in Science on the 11th of February. This day recognises the role of women in the global scientific community and promotes an equal participation in STEM careers. Bringing together backgrounds, expertise and vision, the women in the Episode group are creating an inclusive and open environment in the European battery ecosystem. Martina Romio (FAAM), Raquel Casasola Fernandez (University of Alcalà), Ivana Hasa (WMG), Serena Tombolesi (FAAM), Faduma Maddar (WMG), Magdalena

Graczyk-Zajac (EnBW) and Valeria Caronna (FAAM) shared their perspectives on science and research. Want to know more about their perspectives please read the [LinkedIn](#) post.

Previous and future activities

- UPC's outreach on biomass-based hard carbon battery anode material at the Future Battery Forum 2025 and Global Battery Alliance Annual assembly. Read [here](#) the full

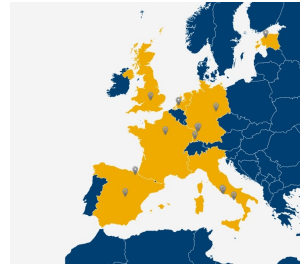
article.

- KIT presented about "Data-driven prioritization of sustainability indicators for stationary energy storage" at the 16th International Conference on Renewable and Clean Energy (ICRCE 2026) in Osaka, Japan.
- On 18-19 June 2026:our partner Arkema host the 3rd GA Meeting.

Facts & Figures

Start date: 01 December 2024
Duration: 42 months
Funding by the EC, GA No: 10119867

12 partners
2 affiliated entities
from 7 different countries



EPISODE partners



Acknowledgement & Disclaimer

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