



HighMag General Assembly Concludes Successfully, Full Steam Ahead for TRL Advancement

PESSAC, France, November 28, 2025 – The HighMag project consortium successfully held its General Assembly Meeting on **Thursday, November 27th**. The assembly brought partners from across Europe and Israel together to take rigorous stock of technical progress and align strategies for the next critical phase of advancing Reversible Magnesium Battery (RMB) technology.



The day concluded with firm consensus on the project's technical roadmap, ensuring the consortium remains fully aligned on the strategy to move the Mg-based battery solution toward the validated prototype stage at TRL 4.



The intense agenda focused heavily on establishing the technical foundation and ensuring alignment across all project work. Morning sessions reviewed the initial experimental results in core component areas, including **Cathode Materials** and **Electrolytes & Separators**. The focus then shifted to the initial design phases of **Magnesium-based Powder Anodes**, where partners defined key parameters for future manufacturability and scale-up.

Following this, the team presented their initial methodologies for data collection and advanced testing plans, and **reviewed the strategy for integrating Sustainability Assessments (SSbD, TEA, & Recycling)** into the project's design framework. The final sessions provided an update on the project's **Communication and Dissemination** efforts, concluding with a strategic outline for translating the research plan into tangible market impact and enhancing external stakeholder engagement.

Collaboration Fuels Future Progress

A dedicated segment for **cross-WP Technical Discussions** proved highly valuable, serving to collectively troubleshoot immediate scientific challenges and streamline methodologies for the coming work period.

The Assembly concluded with a **Lab Tour** and Working Dinner, which reinforced the consortium's unified commitment to the project's long-term goals. This marks an important step in validating HighMag's approach to delivering a sustainable, secure, and competitive post-lithium-ion solution for the European energy landscape.

More about HighMag

- **Project Title:** High-energy, low-cost and scalable generation 5 magnesium-based batteries for mobility applications and beyond
- **Duration:** 2025–2029 (48 months)
- **Coordinator:** AIT Austrian Institute of Technology
- **Funding Programme:** Horizon Europe (HORIZON-CL5-2024-D2-02)



HighMag Consortium Partners

The HighMag project brings together a strong team of experts from leading institutions and companies:

- **AIT Austrian Institute of Technology**, Austria
- **University of Limerick**, Ireland
- **Commissariat a l'Energie Atomique et aux Energies Alternatives**, France
- **Karlsruher Institut fuer Technologie**, Germany
- **Albert-Ludwigs-Universitaet Freiburg**, Germany
- **Amazemet Sp. Z O.O.**, Poland
- **Bar Ilan University**, Israel
- **Zentrum Fur Sonnenenergie- Und Wasserstoff-Forschung Baden-Wuerttemberg**, Germany
- **Danube Cell Manufacturing GmbH**, Austria
- **Imperial College of Science Technology and Medicine**, United Kingdom
- **Lappeenranta-Lahden Teknillinen Yliopisto LUT**, Finland
- **F6S**, Ireland
- **Paul Scherrer Institute**, Switzerland

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