



HyLiST

Hybrid Lithium Metal-based Scalable
Solid-State Battery Manufacturing

Press Release #3

HyLiST Accelerates European Battery Innovation at 3rd General Assembly

10/06/2026



Funded by
the European Union

This project has received funding from the European Union's Horizon Europe research and innovation programme under the Grant Agreement No 101147688. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.

HyLiST Accelerates European Battery Innovation at 3rd General Assembly

Hosted by CIDETEC in San Sebastián, the meeting successfully united partners around technical breakthroughs and exploitation strategies.



[June 9th, 2026]

Following the project's previous General Assembly amid the winter landscapes of Tampere, the HyLiST (Hybrid Lithium Metal-based Scalable Solid State Battery Manufacturing) consortium gathered in the beautiful coastal city of San Sebastián, Spain, for its 3rd General Assembly. Hosted by CIDETEC Energy Storage on May 28th and 29th, 2026, the meeting marked a critical turning point for the project as partners transitioned from early-stage component development into deeper system alignment, and strategic pivots.

Over two days of intensive, high-energy collaboration, European partners **reviewed the latest experimental data and aligned on fresh scientific discoveries**. The atmosphere in San Sebastián proved that transparent communication and a unified vision remain the consortium's greatest superpowers, keeping the project's trajectory perfectly positioned to accelerate Europe's clean energy transition.

Welcomed by CIDETEC: A High-Energy Start in San Sebastián

The assembly opened with an energized welcome from the hosts at CIDETEC, with Andriy Kvasha, Kevin Vattappara, and Lukas Haneke setting up a highly collaborative tone for the event. Project Coordinator Sam Hasanpoor (AIT) reinforced this energized tone, praising the consortium's technical excellence before turning his appreciation toward the hosting team. **"On behalf of the whole consortium, I really wanted to thank you for all your efforts,"** Hasanpoor stated. **"We are so privileged to work with you and use such great facilities here".**

A major highlight of the meeting was an immersive, firsthand tour of **CIDETEC's magnificent laboratory facilities** hosted by Andriy Kvasha. Witnessing the advanced precision engineering and specialized processing equipment in action gave the consortium a renewed appreciation for the **world-class infrastructure and teamwork fueling HyLiST's ambitious goals.**

Deepening Technical Achievements in Gen 4b Technology

The technical sessions in San Sebastián were buzzing with the latest performance metrics and validation results. Having previously established solid foundational processes for lithium-metal anode engineering, advanced surface engineering, and multi-scale digital twin modeling, the consortium's focus has evolved toward refining the architecture of **Generation 4b Solid-State Batteries.**

By combining a multidisciplinary team of scientists and engineers, HyLiST is pioneering sustainable, high-voltage battery components designed to **smoothly bridge the gap between laboratory innovation and industrial reality.**

During the technical sessions, partners highlighted key technical breakthroughs that are currently driving the project forward:

- **Innovative Cathode Engineering:** The consortium is actively developing cobalt-free, high-voltage Lithium Nickel Manganese Oxide (LNMO)-based cathodes to power next-generation architectures.
- **Advanced Solid Electrolytes:** These high-potential cathodes are being paired with innovative materials, such as single-ion conducting polymers, to achieve next-generation lithium-metal battery performance.
- **Overcoming Interface Challenges:** Investigating the internal interfaces of solid-state cells can be incredibly difficult due to the naturally sticky characteristics of the electrolyte. HyLiST is developing entirely new testing methodologies to look at these interfaces from unique angles, providing crucial data on how these materials behave under high-potential conditions.
- **Industrial Manufacturing with Minimal Redesign:** A massive goal of the project is ensuring these batteries can be produced cost-effectively. The consortium is aiming to achieve this by adapting existing manufacturing setups—requiring only



minimal changes to current production lines—to successfully accommodate advanced **dry processing** techniques.

- **Accelerated Design via Digital Twins:** By combining physics-based modeling with advanced simulation workflows, HyLiST is constructing highly accurate digital twins. These tools allow the team to optimize cell performance, design safer systems, and lower development costs at an accelerated pace.

Accelerating Impact: The Exploitation Workshop

To ensure that these scientific breakthroughs successfully go **from laboratory innovation to commercial market adoption**, a dedicated interactive exploitation workshop was held during the assembly.

Led by Andréia Santos from F6S Innovation, the session focused intensely on mapping out the project's Key Exploitable Results (KERs). Consortium partners actively brainstormed and prioritised outcomes, and aligned on the ownership of each KER as well as the partners contributing to their development. The discussion supported a shared understanding of responsibilities and how the results can be effectively advanced towards real-world application.

What's Next for HyLiST?

With sharper market strategies and optimized technical roadmaps in hand, the consortium is ready to tackle the next major implementation phase.

The coming months will prioritize:

- (1) Strategic Refinements:** Adapting component interfaces based on the newly aligned Gen 4b data.
- (2) Industrial Scalability:** Enhancing key cell architectures to ensure compatibility with large-scale manufacturing lines.

As the 3rd General Assembly concluded, the partners left Spain with stronger bonds, clearer roadmaps, and the collective spark needed to continue the right path to revolutionize battery technology in Europe.



Connect with HyLIST

Website: www.hylist.eu

Email: info@hylist.eu

LinkedIn: www.linkedin.com/company/hylist/

YouTube: www.youtube.com/@hylistproject

F6S Platform: www.f6s.com/hylist-project/

Zenodo: www.zenodo.org/communities/hylist/

Links page: www.hylist.eu/links/

Newsletter subscription: www.eepurl.com/i3UtCM



For media inquiries, please contact:

Andreia Santos: andreia@f6s.com

Madalena Demoustier: madalena@f6s.com

HyLIST Consortium

HyLIST's consortium is composed of 13 organisations from 9 countries, bringing together universities, research and technology organisations, SME and industrial partners. They are listed below:

- AIT Austrian Institute of Technology GmbH
- IFP Energies Nouvelles
- Centro de Investigación Cooperativa en Energías Alternativas Fundación, CIC energiGUNE Fundazioa
- Fundación Cidetec
- Pulsedeon OY
- Sovema Group S.P.A.
- Specific Polymers
- Uppsala Universitet

- Vrije Universiteit Brussel
- Tampereen Korkeakoulusaatio Sr
- Piaggio Aero Industries Spa
- F6S Network Ireland Limited
- FEV Europe GmbH

