



HyLiST

Hybrid Lithium Metal-based Scalable
Solid-State Battery Manufacturing

Press Release #02

HyLiST Project landmark: 12 months of successful implementation

08/04/2026



**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 Consortium Powers Up in Tampere: Celebrating 12 Months of Breakthroughs in Battery Technology

Partners gathered in Tampere between 28th and 29th of January 2026 to present achievements and the next steps



[April 08th, 2026]

On the 28th and 29th of January 2026, the **HyLiST** (Hybrid Lithium Metal-based Scalable Solid State Battery Manufacturing) consortium gathered in the beautiful city of Tampere for its second General Assembly. Hosted by Tampere University and Pulsedeon Oy, the meeting served as an important milestone to reflect on the successful work and to chart the course for the next phase of the project.

Across two days of intensive collaboration at the Nokia Arena PAIDIA and Tampere University, partners from across Europe reviewed the technical advancements of the project's first 12 months. The atmosphere was one of shared ambition and technical excellence, ensuring that the project's trajectory remains consistent, collaborative, and of impeccable quality.

A Warm Welcome and a Bold Vision

The assembly opened with a high-energy welcome from the Finnish hosts. Amandeep Singh of Tampere University, alongside the University's Dean, Professor Martti Kauranen, set the stage by emphasizing the importance of international cooperation in solving the world's energy storage challenges.

Setting a confident tone for the proceedings, HyLiST Scientific Coordinator, Sam Hasanpoor (AIT), addressed the consortium, **stating that the team has "what it takes to thrive and deliver high-level, innovative results."** This sentiment was echoed by Project Manager Natalie Bruckmüller (AIT), who reflected on the last year as a period where the "base for very good collaboration within our diverse consortium" was firmly established.

12 Months of Technical Achievements

The first year of HyLiST has been defined by the successful development of core sub-components, transitioning from foundational research into tangible technical results. The work led by Pulsedeon Oy, in Finland, detailed the significant strides made in lithium-metal anode engineering. By establishing the basic processes for anode production and sophisticated surface engineering, the team has successfully moved past lab-scale proofing. This technical maturity now allows the project to shift its focus toward upscaled production, providing the physical architecture necessary for the next generation of high-performance cells.

Parallel to these physical advancements, the project has built a robust digital backbone to ensure precision and safety. IFPEN, leading the Multi-physics and Multi-scale Modeling efforts, announced the successful validation of a comprehensive "toolbox workflow." This digital infrastructure serves as a highly detailed digital twin, enabling the consortium to model battery behavior from the granular microstructure level up to the entire integrated system. By simulating various conditions, the team can preemptively optimize cell design and performance, ensuring that the physical components developed in the lab translate into a reliable, high-safety battery system.

To bridge the gap between innovation and the marketplace, the consortium has also prioritized industrial readiness through strict standardisation. Andritz Sovema highlighted the progress on defining the project's technical requirements, industry benchmarks, and sustainability specifications. By establishing these critical boundary conditions early in the timeline, HyLiST ensures that every advancement (from the lithium-metal anode to the modeling software) is aligned with current industrial standards. This strategic focus on sustainability and technical rigor ensures that the project's outputs are not just innovative, but ready for large-scale production in the global energy sector.

Fine-Tuning Impact: The Stakeholder Workshop

The final day of the General Assembly featured a hands-on workshop dedicated to project impact. Led by F6S, partners participated in interactive sessions to identify and fine-tune the specific stakeholders that HyLiST aims to reach. Through these activities, the consortium reflected on the specific interests of these groups and the transformative impact that safer, higher-density lithium technology will have on the European battery ecosystem.

What's Next for HyLiST?

As the project enters its next 12-month cycle, the focus is shifting from component-level development to system integration. Sam Hasanpoor described this transition as "shifting gears," moving the developed anodes, electrolytes, and cathodes into pouch cell assembly.

The coming months will prioritize:



- (1) Upscaling: Moving component production to a larger scale.
- (2) Pouch Cell Validation: Building and testing the first generation of HyLiST pouch cells to verify real-world performance.
- (3) Testing Protocols: Developing rigorous protocols to evaluate the longevity and safety of the new cell architecture.

As the assembly concluded, the partners left Tampere with a clear roadmap. With a validated modeling toolbox and optimized components in hand, HyLiST is well on its way to redefining the boundaries of battery technology.



Connect with HyLiST

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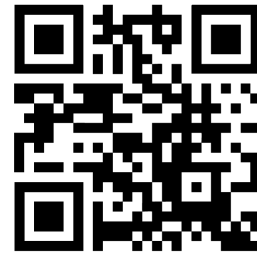
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HyLiST Consortium

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

About the Coordinator: AIT Austrian Institute of Technology GMBH

The AIT Austrian Institute of Technology is Austria's largest non-university research institute. With its seven Centers, AIT regards itself as a highly specialised research and development partner for industry. Its researchers focus on the key infrastructure issues of the future: Energy, Health & Bioresources, Digital Safety & Security, Vision, Automation & Control, Transport Technologies, Technology Experience and Innovation Systems & Policy. Throughout the whole of Austria – in particular at the main locations Vienna Giefinggasse, Seibersdorf, Wiener Neustadt, Ranshofen and Leoben – around 1,500 employees carry out research on the development of those tools, technologies and solutions that will keep Austria's economy fit for the future in line with our motto "Tomorrow Today".

At the AIT Center for Transport Technologies, around 200 experts are working on solutions for sustainable, safe, intelligent and thus future-proof mobility. The focus of the research and development work is on material-based lightweight design, on the electrification of the propulsion train and the storage of electrical energy, as well as on a resilient and safe transport infrastructure. This also includes environmentally compatible and intelligent production technologies for mobility components.

