



# Swiss battery separator project

What is the Swiss battery technology center?

At the Swiss Battery Technology Center, we research the sustainability of electrification, operate Switzerland's largest battery test laboratory with Bern University of Applied Sciences BFH, and show how batteries can be taken apart and materials reused. We are committed to a high recycling rate of the entire battery.

Why should a company join the Swiss battery technology center?

Companies interested in creating better products for customers and the world will find a vital partner in the Swiss Battery Technology Center. The Center provides support throughout the product lifecycle and views itself as a long-term partner for the future evolution of the developed product.

What is the Swiss Innovation Park Biel/Bienne?

The Switzerland Innovation Park Biel/Bienne is a private Swiss non-profit organization that conducts and supports industry-oriented and primarily applied research and development. The SBTC conducts research in the areas of battery ageing, battery applications and battery disassembly.

Who is the implementation partner for the electrolyte and graphite recycling plant?

The implementation partner is the newly founded company LIBREC AG which will open and operate the recycling plant in the near future. BFH is responsible for developing the process for electrolyte and graphite recycling.

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Polymer-based lithium battery with an energy density of >200 Wh/kg. The US Californian investor-funded project awarded one million US\$ Mandated by the Swiss federal authorities, the Swiss National Science Foundation (SNF) ...

Battery separators are crucial for enhancing battery safety, performance, and durability, and this collaboration will help improve EV battery longevity and efficiency. According to the announcement, the Asahi Kasei Honda Battery Separator Corporation plans to begin operations in early 2025, pending regulatory approvals. This joint venture will ...

In the Eurostars project LAMBDA, three organisations are exploring the use of artificial intelligence and robotics to dismantle batteries. The aim of the project is to develop a pipeline for the automatic training of robots for the disassembly of electric vehicle batteries using state-of-the-art AI techniques.



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EN: In the Eurostars LAMBDA project, the Swiss Battery Testing Center (SBTC) at the Switzerland Innovation Park Biel/Bienne, in collaboration with two other ...

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SBTC focuses its research activities in several areas, including the sorting and dismantling of EV batteries, recycling, and battery testing. It also operates the largest battery laboratory in Switzerland for cell and module testing, the Battery Testing Laboratory, together with the BFH Energy Storage Center. The research center collaborates ...

In a project supported by the Swiss Federal Office of Energy (SFOE), the Swiss electric vehicle manufacturer Kyburz Switzerland AG and Empa have set themselves the goal of recycling discarded batteries from electric vehicles.

Empa and Kyburz Switzerland AG are looking for ways to recycle end-of-life lithium-ion batteries in an efficient and resource-saving way. A specially developed experimental facility breaks down the old batteries into ...

Together with a Nobel laureate in Chemistry, the founders of Swiss Battery invented and developed a true renewable, sustainable and 'green' high energy-density battery technology. Moreover, the new battery type matches the performance characteristics requirements which are needed for highly demanding transportation applications. Due to the high ...

Empa will collaborate with Battery Consult AG, a research and development company specializing in salt battery technology, and the Swiss Innovation Park Biel/Bienne (SIPBB) in the LISA project (Laser Joining of ceramic-metal in SaltBatteries), which is co-funded by the Swiss Innovation Agency Innosuisse. The project aims to revolutionize battery ...

Over 60,000 tonnes of batteries will be imported into Switzerland by 2030. The scientific and technical challenges lie in improving the state of the art to achieve the required level of efficiency and the 90% material recycling rate. The Innosuisse project LIBREC was launched on 2 November 2021 and will run for 24 months.

Swiss Battery Technology Center (SBTC) is one of four research centers in the Switzerland Innovation Park Biel/Bienne (SIPBB), a private non-profit organisation that does industry-focused applied research and development. The SBTC supports innovative development of module- and pack design, usage, analysis, disassembly, sorting and recycling ...

How can batteries be recycled after dismantling? Which parts can be reused directly with the separation of



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recycling processes? Together with the start-up Green-Y, we are building an isothermal compressed air storage system in the Switzerland Innovation ...

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