

## Battery research and development switzerland

The Switzerland Innovation Park Biel/Bienne (SIPBB) supports start-ups in the development of marketable products. The Swiss Battery Technology Center brings a unique mix of experts from research and development.

The team consists of engineers and technicians covering a wide field from design, engineering, simulation to AI and machine learning. This allows modern technologies such as li-ion batteries, advanced sensors, blockchain, 5G or AI to be integrated into the products.

The new building of the Switzerland Innovation Park Biel/Bienne serves to test and optimize modern storage technologies. The building contains a state-of-the-art battery storage and a compressed air storage, which is used for sector coupling with the heating and cooling system.

Old batteries must be recycled in such a way that the reusable materials can be added back to the product cycle. Batteries from electric vehicles contain high voltages and during the course of use, toxic gases can be produced within the battery. The SBTC develops solutions for the demanufacturing of battery packs and supports the planning of digital solutions to monitor the entire recycling process.

Battery technology is one of the today's most important topics. How we use batteries will change drastically over the next decade. We need to reduce the CO2 footprint of each cell and extend its life cycle. 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. Safety and low costs have the highest priority.



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