

Miba Battery Systems

Miba Battery Systems is a pioneer in the development and production of battery packs and energy storage systems on the basis of round cells and battery components. We were the first supplier worldwide to develop an innovative contacting process for welding round battery cells efficiently. In addition, our FLEXCOOLER® ideally complements our innovative product range as the lightest battery cooler in the world.

Our claim ENERGIZE LIFE stands for our drive to electrify a wide variety of applications, such as automobile, off-highway working machinery, motorcycles, boats, drones as well as stationary applications.

At Austria's technology-leading battery production site, the VOLTFACTORY®, we are driving forward the electrification of the future.



Part of the Miba Group

Miba develops and produces functionally critical components along the entire energy value chain. The products make an important contribution to the efficient and sustainable generation, transmission, storage and use of energy. Miba powder metal parts, bearings, friction materials, power electronics components, coatings and components for e-mobility are used around the world in applications like vehicles, ships, aircraft, agricultural and construction machinery, wind power turbines or power grids.



Our role in the project

Miba Battery Systems is the Task Leader for Work Package 6 (WP6), which focuses on the module recombination methodology. This work package is structured into two distinct pillars. Pillar 1 is managed by SLG, while Pillar 2 is overseen by MBS.

In this task, the transition of batteries from their first life to their second life is thoroughly demonstrated. Initially, the disassembly and testing of the batteries are carefully evaluated to ensure they are suitable for reuse. This involves a detailed analysis of the batteries' current condition and performance capabilities. Following this evaluation, the new application for these batteries is planned, which includes identifying and integrating the necessary components required for their new use.

Ultimately, a demonstration of a relevant use case will be conducted to showcase the practical application of these repurposed batteries. For Pillar 1, the focus will be on a microgrid application, illustrating how these batteries can be utilized within a localized energy grid. Meanwhile, Pillar 2 will concentrate on a home storage application, demonstrating how the batteries can be effectively used for residential energy storage solutions. This comprehensive approach ensures that the transition from the first to the second life of the batteries is not only theoretically sound but also practically viable.

