

## Battery management systems bratislava

SBaA is an independent advocacy group composed of legal entities and operating as an industry cluster. It is an executive platform for the cooperation among the public and private sectors, innovators, the academic community and financial institutions. Its aim is to participate in the battery value chain in Europe.

The Alliance was established in 2019 and has received with the bronze European Cluster Management Excellence Label, which is awarded by the European Secretariat for Cluster Analysis. It is a member of the European Battery Alliance.

Budapest, November 14, 2024 Representatives of the Slovak Battery Alliance (SBaA) attended the Visegrad 4 Business Conference in Budapest, a gathering of leaders in innovation, trends and advanced technologies from the V4 countries. Topics from the energy sector clearly promoted battery storage as a necessity for industry and independent energy solutions based mainly on renewable energy sources.

Every link in the battery value chain from extraction, acquisition and processing of raw materials through the manufacturing of battery components, battery cells and battery systems all the way to reuse (second life) and recycling of batteries is extremely important and depends on a good interaction with other links.

The strategic heading of the automotive industry and mobility moves us towards electrification. This strategy is also supported by the legislation of the European Union, which broader objective is to decarbonise, reduce transport emissions and achieve climate neutrality in 2050. Supporting the development and production of advanced batteries is also an important activity in these efforts.

The creation of the National Battery Centre project was initiated today in the form of a joint Memorandum by representatives of the Slovak Academy of Sciences, TU Košice, UPJŠ Košice, STU Bratislava, the University of Žilina, the Automotive Industry Association of the Slovak Republic and the Slovak Electric Vehicle Association. The project should cover three key areas that have been identified as those in which Slovak entities can best succeed considering their competencies.

Work Package 2 - Battery systems and their management should focus on the development of innovative battery management systems or battery sensors as well as advanced techniques for monitoring the condition of batteries and supercapacitors during their load in order to optimise their operating mode.

Another important topic is the recycling and further use of batteries, which should be addressed within Work Package 3. This Work Package will focus on the development of recycling processes for lithium batteries as well as the development of solutions for their reuse (the so-called second battery life).

“The aim of the National Battery Centre project is not only to work together on the development of

technologies, but also to ensure their transfer to the real industry. As part of this public-private partnership, we want to focus on practical testing and validation of new technologies with industrial partners," says Patrik Križanský, Director of the Slovak Electric Vehicle Association.

"In Slovakia, we also need to pay more attention to the training of young talents who will be competitive in the environment of such innovative technologies. Since the automotive industry is increasingly heading towards electrification, it is very important to support the training of specialists for battery technologies," adds Alexander Matúšek, President of the Automotive Industry Association of the Slovak Republic.

Mobility is a trend that exists across all sectors. More and more energy is required in the smallest of spaces. And this is where we come in! We develop, produce and sell customized battery management systems, the brain of every lithium-ion battery. From intelligent battery electronics to charging units - we develop and produce the right solution for your application.

FSM as your electronics partner - Benefit from our many years of experience in the development of customized battery solutions. Our modern production facility gives us maximum flexibility and short throughput times, enabling us to respond efficiently to our customers' requirements. As we strive for a long-term partnership with our customers, a positive and constructive cooperation with you is very important to us.

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