

Slovakia battery recycling

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 main mission of E-cycling is to protect the environment and human health by ensuring an efficient system for the collection and recycling of waste electrical and electronic equipment, used batteries and accumulators, and packaging and non-packaging waste.

The last but not the least important area is development of recycling processes for the most widely used lithium batteries and suggesting solutions for their reuse. „The aim of the National Battery Centre project is not only to work together on the development of technologies, but also to ensure that they will transfer into real industry.

Slovakian battery company InoBat Auto and its recycling partners have succeeded in proving that recovered active cathode material can be used in the production of new batteries. InoBat says the performance of the batteries made from recycled materials is equivalent to those made from completely new materials.

BTS Technology offers innovative solutions for recovering valuable Lithium-ion battery materials from waste, reintroducing them into production to drive sustainability and efficiency. Built on decades of expertise, we lead the way in environmentally responsible recovery technology.

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The Centre was established thanks to the representatives of several sections of Slovak Academy of Sciences, The Slovak University of Technology in Bratislava, Technical University, Košice, University of Pavel Jozef Šafárik in Košice, Žilina University in Žilina, Automotive Industry Association and Slovak Electric Vehicle Association.

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"We are launching the project for National Battery Centre, the ambition of which is to support the most promising components that are the value chain of battery industry. We have the ambition to be among the best players within the European area." announced the President of Slovak Academy of Sciences, Pavol Šajgalík.

The Centre will support development and production of advanced batteries and will focus on three main areas where, according to Slovak scientists, we have greatest chances to succeed.

The first area will aim at raw materials and use of new materials for electrodes to improve the quality of batteries. "Priority topics will be research and development of new materials for electrodes of lithium batteries also based on sulphur, solid electrolytes, as well as new aluminium-air batteries, batteries based on sodium and ferrates and increasing performance and extending battery life," explains Pavol Šajgalík, rector of Pavol Jozef Šafárik University in Košice.

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