

SPENT LITHIUM-ION BATTERIES AS RESOURCE IN CIRCULAR ECONOMY - CREATING AUTOMOTIVE RENEWAL (CAR) PROJECT

*Lukasz Hupka, Jan Hupka, Jacek Gebicki¹
Mats Larsson, Kamil Zajaczkowski²*

¹⁾ Gdansk University of Technology, Poland

²⁾ Industrial Development Centre South, Sweden

Abstract

Creating Automotive Renewal (CAR) project aims at sharing knowledge and promoting electric mobility in the European Union, South Baltic region. As a part of the project Gdansk University of Technology has developed a pilot setup for testing amenability of materials obtained from lithium-ion batteries to direct recycling and enrichment.

The presentation will focus on contribution of lithium-ion batteries processing to the development of the circular economy. In particular, Li-ion batteries composition, recycling options and recycling techniques will be addressed. The presentation will refer to recently established recycling laboratory at GUT, within the CAR project.

Keywords: Creating Automotive Renewal, Li-ion batteries recycling, waste management