

i-HeCoBatt - research project to achieve an intelligent battery heat exchanger minimising the impact on full electric vehicle range in extreme conditions

Valencia (Spain) – June 2022. On the 17th and 18th of May 2022, the European Union’s funded project, [i-HeCoBatt](#) (Grant Agreement No 824300), organised an “Electromobility Technology Workshop: Driving a Greener Value Chain” as a final event to conclude the 42 months of the project developments in the different tasks and to present outstanding results.

i-HeCoBatt stands for intelligent heating and cooling solution for enhanced range electric vehicles battery packs. The project industrialisation enhances the heating and cooling system’s efficiency through its design and development cost reduction. To achieve so, i-HeCoBatt integrated an innovative heat exchanger that removes the currently used gap filler between the heat exchanger and the battery. This design reduces weight and boosts the efficiency of the heating and cooling system.

During the event, all the partners presented the main achievements regarding thermal safety and battery efficiency, simulation of battery pack thermal architectures and strategy controls, innovative FLEXcooler® cooling solution, ecodesign components and sustainability approach and integration of i-HeCoBatt in the AUDI Q4 e-Tron.

In addition to the i-HeCoBatt presentations, this workshop offered a unique opportunity for all research organisations, companies and policymakers taking part in the event to present new ideas, other related project results and concepts for innovative products. Furthermore, topics ranging from green mobility, raw materials supply chain, and circular economy to batteries recycling were discussed in several round tables sessions exploring all the opportunities and challenges within the vehicles and batteries industry.

The [Electromobility Technology Workshop](#) had considerable success involving inspiring presentations combined with a proactive and dynamic audience, which allowed for conclusive discussion and enhanced new future cooperation. In parallel, it became the appropriate place to promote the project results, covering different aspects of efficiency, automotive quality, cost reduction, components integration and functionalities and virtual onboard validation.

The project performance was carried out by a highly focused consortium covering the whole relevant value chain of the EV batteries industry: a top automobile manufacturer ([AUDI](#)), a leading automotive components manufacturer ([MIBA](#)), an automotive data management software developer ([DATIK](#)), and an eco-design expert ([LOMARTOV](#)), supported by first-order two European research centres ([CEA](#)) and ([CIDETEC](#)) as the project coordinator.

For further information, please visit <https://ihecobatt.eu/>, and follow

i-HeCoBatt on social media: [Twitter](#), [LinkedIn](#) and [YouTube](#).