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Press release

E-MoPEd transfer project launched for simultaneous and automated double-sided multilayer coating of battery electrodes

Karlsruhe, March 2025 – Jagenberg Converting Solutions GmbH and BASF SE, together with the Thin Film Technology (TFT) and wbk Institute of Production Science at the Karlsruhe Institute for Technology (KIT), have launched a new transfer project to optimize the coating process for battery electrodes. The three-year project aims to utilize and combine the potential of new coating methods in order to increase process efficiency and electrode quality. The long-term goal of the consortium is simultaneous and automated multilayer coating on both sides.

The project focuses on developments in the areas of inline-control, simultaneous multilayer coating and coating using the tensioned-web process. These innovative approaches are to be optimized and scaled up to industrial standards. For the simultaneous coating of both sides of a battery electrode, both the fixed-gap and tensioned-web processes are to be used and additionally combined with multilayer coatings. The objective of the project is to achieve significant improvements in the coating processes and to scale them up for use in industrial plants. To this end, resource efficiency, quality and degree of automation in the coating process are to be increased. This will contribute in particular to the development and expansion of a technologically sovereign, capable and sustainable battery value chain in and for Germany and Europe.

The project is funded by the Federal Ministry of Education and Research under the funding code 03XP0632 A-D as part of the "Clusters Go Industry" (CGoIn) transfer module.

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