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Processing of solar container lithium battery packs in Gothenburg Sweden





Overview

How is Gothenburg shaping the new battery industry?

In Gothenburg we are shaping the new battery industry. In the coming years Gothenburg and West Sweden will have in place two battery gigafactories, with major investments being made by public and private actors, including Volvo Cars and the Volvo Group. The region is set to become an important hub for both battery development and production.

How is Gothenburg reskilling the battery industry?

Reskilling and upskilling initiatives for the region's new battery industry are also underway. Among them is a unique education and training centre which has opened in Gothenburg, specifically for the battery value chain. Around 7,000 people will be trained in state-of-the-art facilities between 2024 and 2029.

What are the production steps in lithium-ion battery cell manufacturing?

Production steps in lithium-ion battery cell manufacturing summarizing electrode manufacturing, cell assembly and cell finishing (formation) based on prismatic cell format. Electrode manufacturing starts with the reception of the materials in a dry room (environment with controlled humidity, temperature, and pressure).

How are lithium ion batteries processed?

Conventional processing of a lithium-ion battery cell consists of three steps: (1) electrode manufacturing, (2) cell assembly, and (3) cell finishing (formation) [8, 10]. Although there are different cell formats, such as prismatic, cylindrical and pouch cells, manufacturing of these cells is similar but differs in the cell assembly step.



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