

Processing of lithium battery packs in Gothenburg Sweden



Overview

Can you transport discarded lithium-ion batteries in Sweden?

This means that there are restrictions regarding the transportation of discarded and unassembled lithium-ion batteries. According to regulations by the Swedish Civil Contingencies Agency (MSB 2019b) it is not allowed to transport more than 333 kilograms of lithium-ion batteries per transportation unit.

What happens to Black Mass from mechanical battery recycling in Sweden?

Black mass from mechanical battery recycling in Sweden will in future be further processed at BASF Schwarzheide. In the prototype plant in Schwarzheide, black mass from mechanical battery recycling is turned back into pure metals for new cathode material. The raw materials for lithium-ion batteries are limited.

Where does Stena recycle lithium ion batteries?

Stena Recycling will produce black mass from spent lithium-ion batteries and production waste in Halmstad, Sweden. One of Europe's most modern battery recycling plants went into operation there in September 2023, in which the company has invested around 22 million euros. The plant currently has an annual recycling capacity of 10,000 tonnes.

What are the raw materials for lithium-ion batteries?

The raw materials for lithium-ion batteries are limited. Black mass is an important intermediate product in the recovery of high-purity lithium salt. BASF and Stena Recycling, headquartered in Gothenburg, Sweden, are working together to establish a European value chain for the recycling of electric vehicle batteries.

How can lithium-ion batteries be recycled efficiently?

However, to enable an efficient recycling process a well-defined and efficient

supply chain network for the recovery of discarded lithium-ion batteries must be put in place. This includes analyzing the needs and restrictions of such a network.

Do lithium-ion batteries reach their end-of-life in 2025?

Estimations of the amount of lithium-ion batteries reaching their end-of-life in 2025 and the amount being recycled indicates large deviations. To enable an efficient recycling process a well-defined and efficient supply chain network for the recovery of discarded lithium-ion batteries must be put in place.

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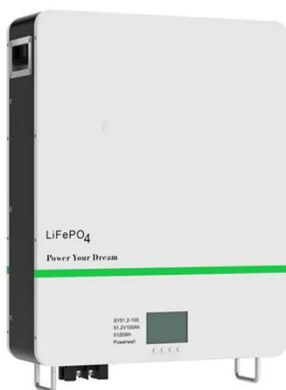


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