

European Union Energy Storage Lithium-ion Batteries





Overview

Why does Europe need a lithium-ion battery?

Europe is currently heavily dependent on imports for the critical raw materials needed for lithium-ion battery (LIB) production, as most of these resources are distributed outside the region. Despite this dependency, Europe accounts for around 25% of global electric vehicle (EV) sales. This creates an indire.

What is the EU Battery strategy?

This essay will start by explaining the 4 key components of the EU Battery Strategy: The European Battery Alliance as a forerunner, the EU Batteries Regulation of 2023, a comprehensive framework addressing the lifecycle of batteries from design to disposal, the Raw Materials Strategy, and the Strategic Research and Innovation Agenda.

Why is battery production important for the EU?

Batteries, widely used in the transport and energy sectors, are central to the global energy system. They will be key to the EU's clean energy transition, industrial future and strategic autonomy. Boosting the industrial base for battery production is therefore a key task for the EU.

Does Europe need a battery supply chain?

Consequently, Europe is strengthening local battery production and promoting circular economies. 13–15 However, expanding its own LIB supply chain will also result in a significant increase in energy demand, as most of the energy currently used for mining, refining and cell manufacturing is required outside of Europe.



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General Technology Overview and Technology
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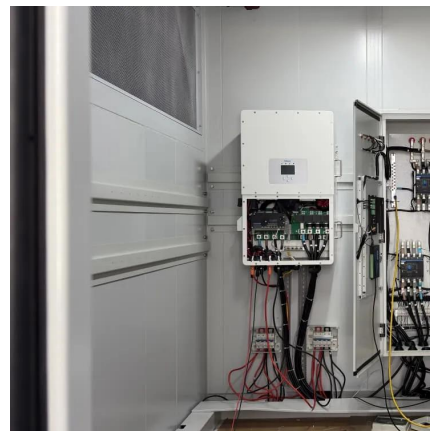


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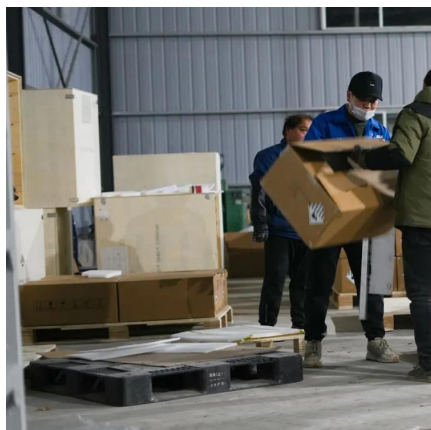


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