

Global procurement of lithium battery packs

Does a global lithium-ion battery supply chain need a multilevel framework?

Our analysis underscores that a deep and equitable decarbonization of the global lithium-ion battery supply chain requires an integrated, multilevel framework that moves beyond siloed policies.

What is the global demand for lithium-ion batteries?

Introduction The global demand for lithium-ion batteries is expected to increase 10- to 20-fold this decade, mainly due to the rapid growth of the electric vehicle market. The growing demand implies that capacities for the extraction and refinement of battery raw materials and the production of battery cells must also be increased.

Is the lithium-ion battery supply chain critical for Global decarbonization?

Nature 646,1114–1121 (2025) Cite this article The lithium-ion battery supply chain is critical for global decarbonization^{1,2}, yet its geographically dispersed production stages pose substantial challenges for carbon management^{3,4}.

How can a circular economy improve lithium-ion battery supply chain?

A circular economy approach applied to the global lithium-ion battery supply chain shows that combining cross-regional cooperation on technology and trade with regionally tailored domestic circular economy policies yields the highest global emission reduction.

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The increasing number of electric vehicles worldwide leads to various challenges, especially in terms of battery supply chains. New battery production...

The lithium-ion battery (LIB) has become the cornerstone of the electrification movement. This chapter examines the critical topic of sourcing battery materials, particularly within the context of ...

EV makers face shifting demand and rising risks, making battery sourcing strategy crucial as OEMs balance integration, partnerships, and outsourcing through 2030.

Explore hidden regional trends and supply-demand imbalances in the global battery supply chain, with strategies to drive market growth.

Abstract A sustainable low-carbon transition via electric vehicles will require a comprehensive understanding of lithium-ion batteries' global supply chain environmental impacts. ...

Why Lithium Batteries Are a Strategic Import Lithium batteries have become indispensable in the global energy transition, powering everything from smartphones to electric vehicles and grid ...

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1 The Trend of Falling Lithium-Ion Battery Prices According to BloombergNEF, the price of lithium-ion battery packs dropped 20% in 2024, reaching \$115 per kWh, the largest drop ...

The lithium-ion battery supply chain is a specialized subset of the electric vehicle battery supply chain. It encompasses the sourcing of raw materials, manufacturing of lithium-ion battery ...

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