Lithium-ion battery index ranking

What is the global lithium-ion battery supply chain ranking?

Now in its fourth edition, the Global Lithium-Ion Battery Supply Chain Ranking considers 46 individual metrics to track the supply chain potential across five equally weighted categories: raw materials, battery manufacturing, downstream demand, ESG considerations, and 'industry, infrastructure and innovation'.

Which country has the best lithium-ion battery supply chain?

Canadahas claimed the top spot among 30 countries in BloombergNEF's latest global lithium-ion battery supply chain ranking. The ranking,now in its fourth edition,looks at each country's potential to build a secure,reliable and sustainable supply chain for lithium-ion batteries.

How does BNEF rank the lithium-ion battery supply chain?

In the report,BNEF ranks 30 leading countriesacross the lithium-ion battery supply chain based on 41 metrics across five key themes: availability and supply of key raw materials; manufacturing of battery cells and components; local demand for electric vehicles and energy storage; and policy and environmental considerations.

Will China dominate the global lithium-ion battery supply chain in 2022?

Bali,November 12,2022 - China continues to dominateBloombergNEF's (BNEF) global lithium-ion battery supply chain ranking,for the third time in a row,for both 2022 and its projection for 2027,thanks to continued support for the electric vehicle demand and raw materials investments.

Where does North America rank in battery supply chain development?

The BNEF ranking finds that North America,in general,is excelling in battery supply chain developet. While Canada secured the top spot,the U.S. reached third place. Mexico climbed eight places to 19th. "Clear policy direction and commitment in North America have been key to the region's rising supply chain potential," says the BNEF summary.

How does China rank a battery industry?

The ranking is based on 46 individual metrics across five equally weighted categories: raw materials, battery manufacturing, downstream demand, ESG considerations and "industry, infrastructure and innovation." China, with its well-established metals refining industry and battery manufacturing facilities, has hitherto led the pack.

According to InfoLink''s global lithium-ion battery supply chain database, energy storage cell shipment reached 114.5 GWh in the first half of 2024, of which 101.9 GWh going to utility-scale (including C& I) sector and 12.6 GWh going ...

While Canada produces only a tiny fraction of China''s lithium-ion battery output today, the BloombergNEF

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analysis is focused on future battery supply chains.

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For the first time, China is not the top market in BloombergNEF"s ranking of countries" potential to build a secure, reliable and sustainable lithium-ion battery supply chain. It has been dethroned by Canada, whose continued growth across all areas...

For the first time ever, China is not at the top of BloombergNEF"s global lithium-ion battery supply chain ranking. The global lithium-ion battery market was worth US$54.4 billion in...

Strategic research provider BloombergNEF has released the Global Lithium-Ion Battery Supply Chain Ranking, an annual assessment that rates 30 countries on their potential to build a secure, reliable, and sustainable lithium-ion battery supply chain.

State-of-health (SOH) is a measure of a battery"s capacity in comparison to its rated capacity. Despite numerous data-driven algorithms being developed to estimate battery SOH, they are often ineffective in handling time series data, as they are unable to utilize the most significant portion of a time series while predicting SOH. Furthermore, current data-driven ...

As a critical index in ensuring the safe and reliable deployment of lithium-ion batteries (LIBs), the estimation performance of state-of-health (SOH) seriously affects the popularization of electric vehicles (EVs). However, for the existing SOH estimation methods based on machine learning algorithms, the health features are manually extracted mainly based on ...

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