

What is the battery metals bull market?

Note: The following is a redacted version of the original report published May 29, 2022 [24 pgs]. The battery metals bull market has peaked. Battery metals - cobalt, lithium and nickel - will power the green industrial revolution, facing a wave of demand comparable to that of copper and iron ore during China's rapid growth in the 2000's.

Can EV battery chemistry mix be used as a demand model?

We use the GS auto analysts base case for EV battery chemistry mix as the basis for our demand modelling. However, given a growing interest in the West in LFP, we have also modelled a scenario of 'LFP hyperadoption' (see Exhibit 9).

Is battery chemistry key to EV demand?

3. Battery chemistry is key to demand but is a slow moving change. Whilst the rapid growth in EV sector supports a broadly positive path in battery metals demand, the relative path between them reflects trends in battery chemistry.

What are the risks of lithium & nickel?

For lithium and nickel, risks are more on the long term and linked to the environmental impact of their processes (see Exhibit 14), as 30% of lithium supply is located in water scarce countries and more than 50% of nickel production is fueled by coal.

How much does lithium cost in 2022?

In this context, we see prices on a downward trajectory over the course of the next two years, with sharp correction in lithium (spot \$60,350/t versus GSe average 2022 \$53,982/t and 2023 \$16,372/t), and to a lesser extent cobalt (spot \$87,100/t, GSe 2022 average \$78,500/t and 2023 \$59,500/t).

Why is a high-purity Class 1 nickel needed for batteries?

This reflects a strong growth trend in chemical supply as well as conversion capacity, which enables a pass through of low-purity class 2 nickel - used in stainless steel - to the high-purity class 1 nickel required for batteries (see Exhibit 31).

SFA (Oxford) produced long-term forecasts and detailed market analytics for the three primary battery metals, nickel, cobalt and lithium. Independent supply and demand market balances ...

This whitepaper will navigate the entire battery value-chain to provide insights into this vital area of technology, highlighting expectations for future demand growth, exploring the current battery technology landscape, analysing the market for the critical metals needed for batteries, and looking ahead to consider how the value-chain may ...

Peer-group benchmarking and margin analysis. SFA's battery metals asset benchmarking is unrivalled, providing you with a detailed understanding of which operations are outperforming ...

SFA (Oxford) produced long-term forecasts and detailed market analytics for the three primary battery metals, nickel, cobalt and lithium. Independent supply and demand market balances and price forecasts to highlight the changing evolution of battery technologies, market consumption, substitution and recycling threats across the different end ...

Building on the wealth of research and analysis from CRU's Battery Metals team, we presented our client an overview of the entire value chain from mineral resources to New Energy Vehicle ...

Battery metals - cobalt, lithium and nickel - will power the green industrial revolution, facing a wave of demand comparable to that of copper and iron ore during China's rapid growth in the 2000's.

Regional Analysis: Metal air battery breakdown by North America, Europe, Asia Pacific, and Rest of the World. Growth Opportunities: Analysis of growth opportunities in different metal types, battery types, applications, and regions for the metal air battery. Strategic Analysis: This includes M& A, new product development, and competitive ...

As demand for electric vehicles (EVs), renewable energy storage, and other battery-powered technologies continues to rise, investing in battery metals has become an attractive option for many investors. There are ...

Metal Air Battery Market Analysis by Application. On the basis of application, the electronics devices segment currently holds the majority of the market share, due to the fact that compact electronics are where most commercial metal air batteries are used. Further, the development of metal air batteries using aluminum is being researched and planned by top EV companies like ...

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Battery Insights by McKinsey is a dedicated platform providing data-driven analytics and tailored solutions across the battery value chain, from component production to cell manufacturing, pack assembly, second life, and ...

To this end, we propose five conceptual, descriptive, technical, and social frameworks that, when taken

together, provide a holistic assessment of battery innovation opportunities: (1) anatomy of a battery, (2) battery performance metrics and application requirements, (3) the battery value chain, (4) scaling batteries and technology readiness ...

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An investment of 300 million yuan for solid-state lithium-ion battery production project was signed in Jiangxi Province." Recently, the People's Government of Pengze County, Jiujiang City, Jiangxi Province held a signing ceremony for the solid-state lithium-ion battery project with Dongguan Yihua New Energy Co., Ltd.

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