

# Cobalt free batteries in china



## Overview

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Chinese electric vehicle manufacturers are increasingly prioritizing and integrating cobalt-free battery solutions into their production lines, marking a significant divergence from global norms and prompting widespread discussion across the industry. China's CATL and BYD supplied 54.9% of global EV battery usage in Jan–Nov 2025 as demand rose 32.6% to 1,046 GWh, SNE Research data show. (Photo / Jade GAO / AFP) Chinese researchers and firms are accelerating the race towards the next generation of battery technologies, and this will undoubtedly. The world of batteries is undergoing an unprecedented upheaval, a transformation that challenges years of entrenched beliefs. With the rise of lithium iron phosphate (LFP) batteries, primarily developed in China, a burning question arises: can NMC (Nickel-Manganese-Cobalt) technologies remain. Gansu Rare Earths developed a cobalt-free, low-nickel NFC alloy powder that passed pilot validation and secured a 2-ton purchase order within a year of R&D launch.

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### China dominates global trade of battery minerals

In this article, we consider trade of three key minerals needed for batteries--graphite, lithium, and cobalt--among China and key global regions.

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### Cobalt-free batteries reign in Chinese EVs. Why not the US?

There's been an era-defining race underway between two types of batteries used in electric vehicles: lithium batteries that use cobalt, and ones that use iron phosphate.



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### Top 10 cobalt free battery companies in China - TYCORUN

China's cobalt free batteries have developed rapidly in recent years. This top 10 cobalt free battery companies in China article will list the following companies.

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### China cobalt-free batteries Market Size 2025-by Type

The China cobalt-free batteries Market exhibits varied dynamics across regions, driven by differences in technology adoption, regulatory environments, industrial demand, and investment



### China Announces Breakthrough in Cobalt-Free, Low-Nickel Hydrogen

China's Gansu Rare Earths has quietly reported what may become an important development in the next generation of hydrogen-storage materials: a cobalt-free, low-nickel NFC ...

### What Innovations Are Driving China's Next-Gen Lithium-Ion Battery

China's next-gen lithium-ion technologies focus on higher energy density, faster charging, and improved safety. Innovations include silicon-anode batteries, solid-state electrolytes, and cobalt ...



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Chinese electric vehicle manufacturers are increasingly prioritizing and integrating cobalt-free battery solutions

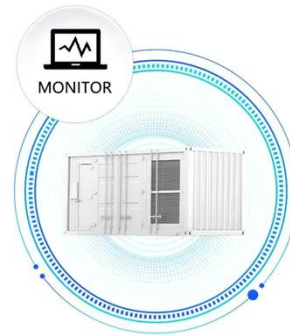
into their production lines, marking a significant divergence from global norms and ...



## A Chinese innovation without cobalt that jeopardizes the future of

With the rise of lithium iron phosphate (LFP) batteries, primarily developed in China, a burning question arises: can NMC (Nickel-Manganese-Cobalt) technologies remain competitive against this new threat?

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## China Battery Breakthroughs Impact on Cobalt Supply

Explore China battery breakthroughs and their impact on cobalt and nickel markets in the evolving electric vehicle landscape.

## The development of China's monopoly over cobalt battery materials

The results show that from mining, to refining, consumption, recycling, stocks,

and trade, China dominates the cobalt materials that feed lithium-ion battery cathode production.



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