

Global Nickel Cobalt Manganese Oxide Lithium-ion Battery Market Growth 2026-2032

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Abstracts

The global Nickel Cobalt Manganese Oxide Lithium-ion Battery market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Also known as lithium manganese cobalt oxide or NMC batteries, lithium nickel manganese cobalt oxide batteries are made of several materials common in lithium-ion battery types. They include a cathode made of a combination of nickel, manganese and cobalt.

Like other lithium-ion battery varieties, NMC batteries can have either a high specific energy density or a high specific power. They cannot, however, have both properties. This battery type is most common in power tools and in powertrains for vehicles.

The cathode combination ratio is usually 60 percent nickel, 20 percent manganese and 20 percent cobalt. This means that the raw material cost is lower than it is for other lithium-ion battery options, as cobalt can be quite expensive. These batteries may come down in price further in the future, as some battery makers are planning to switch their battery chemistry to a higher percentage of nickel so that they can use less cobalt. This battery type is commonly preferred for electric vehicles due to its very low self-heating rate.

China's policy on lithium-ion batteries mainly focuses on lithium-ion batteries. In 2015, in order to strengthen the management of lithium-ion battery industry and improve the development level of the industry, China formulated the Standard of Lithium-ion Battery Industry. the global sales of new energy vehicles reached 10.8 million units in 2022, with a year-on-year increase of 61.6%. In 2022, China new energy vehicle sales

reached 6.8 million units, and the global share increased to 63.6%. In Q4 2022, sales penetration rate of China's new energy vehicle reached 27%, while the global average penetration rate was only 15%. Europe penetration was 19%, and North America penetration rate was only 6%. Lithium batteries will fully benefit from the high growth of downstream demand. According to the Ministry of Industry and Information Technology, China's lithium-ion battery production reached 750 GWh in 2022, up more than 130 percent year on year. Among them, the output of lithium energy storage battery exceeded 100 GWh, and the total output value of the industry exceeded 1.2 trillion yuan. The industrial application of lithium battery was also growing rapidly. In 2022, the loading capacity of new energy vehicle power battery was about 295 GWh, and the new energy vehicle power battery was about 295 GWh. According to our research, in 2022, the overall global lithium-ion battery shipments were 957GWh, a year-on-year increase of 70%. Global vehicle power battery (EV LIB) shipments were 684GWh, a year-on-year increase of 84%; Energy storage battery (ESS LIB) shipments were 159.3GWh, a year-on-year increase of 140%.

LP Information, Inc. (LPI) ' newest research report, the “Nickel Cobalt Manganese Oxide Lithium-ion Battery Industry Forecast” looks at past sales and reviews total world Nickel Cobalt Manganese Oxide Lithium-ion Battery sales in 2025, providing a comprehensive analysis by region and market sector of projected Nickel Cobalt Manganese Oxide Lithium-ion Battery sales for 2026 through 2032. With Nickel Cobalt Manganese Oxide Lithium-ion Battery sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nickel Cobalt Manganese Oxide Lithium-ion Battery industry.

This Insight Report provides a comprehensive analysis of the global Nickel Cobalt Manganese Oxide Lithium-ion Battery landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nickel Cobalt Manganese Oxide Lithium-ion Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nickel Cobalt Manganese Oxide Lithium-ion Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nickel Cobalt Manganese Oxide Lithium-ion Battery and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast

offers a highly nuanced view of the current state and future trajectory in the global Nickel Cobalt Manganese Oxide Lithium-ion Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Nickel Cobalt Manganese Oxide Lithium-ion Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aqueous

Organic Liquid

Polymer

Ceramic

Segmentation by Application:

Power & Utilities

EV Automotive

Industrial

Commercial & Residential

Consumer Electronics

Medical

eVTOL

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Panasonic

Samsung SDI

LG Chem

CATL

ATL

Murata

BYD

Tianjin Lishen Battery

BAK Power

Toshiba

AESC

Saft

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nickel Cobalt Manganese Oxide Lithium-ion Battery market?

What factors are driving Nickel Cobalt Manganese Oxide Lithium-ion Battery market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nickel Cobalt Manganese Oxide Lithium-ion Battery market opportunities vary by end market size?

How does Nickel Cobalt Manganese Oxide Lithium-ion Battery break out by Type, by Application?

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