

Global Layered Oxide Sodium-Ion Battery Cathode Material Market Growth 2026-2032

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Abstracts

The global Layered Oxide Sodium-Ion Battery Cathode Material market size is predicted to grow from US\$ 53.80 million in 2025 to US\$ 954 million in 2032; it is expected to grow at a CAGR of 37.9% from 2026 to 2032.

Layered oxide sodium-ion battery cathode materials are sodium-ion battery cathode active materials represented by the general formula Na_xMO_y , in which transition metal layers and sodium layers are alternately stacked. Common crystal structures include O3-type, P2-type, and composite-phase systems. By optimizing combinations of Ni, Fe, Mn, Cu, and other transition metals, together with doping, surface coating, and particle size control, these materials achieve a balance among energy density, rate capability, cycle life, residual alkali, and moisture control. They are primarily used in sodium-ion battery cell manufacturing for applications such as energy storage systems, low-speed electric vehicles, light-duty power applications, and backup power supplies. Based on early commercial production conditions in 2025-2026, the estimated industry-wide gross margin is approximately 28%.

Layered oxide cathodes are currently one of the sodium-ion battery cathode chemistries closest to large-scale commercialization. Their technical framework is relatively similar to that of layered lithium-ion cathodes, making them easier for battery manufacturers to understand, validate, and integrate into existing production lines. Their main advantage lies in relatively high energy density and good process compatibility, making them well suited for energy storage, low-speed transportation, light-duty power, and certain industrial power applications where capacity, cost, and supply chain security are all important considerations.

The market is still in the early adoption stage, and purchasers focus more on material

consistency, cycle life, air stability, residual alkali control, tap density, and transition metal composition than on theoretical capacity alone. Different sodium-ion cathode chemistries are not expected to simply replace one another. Layered oxides are more likely to serve as the mainstream high-capacity cathode platform, while Prussian blue analogues retain differentiated advantages in cost, safety, and high-rate applications.

Future growth will largely depend on how quickly sodium-ion batteries transition from demonstration projects to stable volume production. As lithium resource prices fluctuate and demand for lower-cost energy storage solutions increases, layered oxide cathode materials are expected to be among the earliest beneficiaries. However, challenges such as capacity fading, gas generation, moisture sensitivity, and batch-to-batch consistency still need to be addressed. In the near term, competition will center on joint validation programs between leading material suppliers and battery manufacturers, platform standardization, and large-scale supply capability.

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

This Insight Report provides a comprehensive analysis of the global Layered Oxide Sodium-Ion Battery Cathode Material 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 Layered Oxide Sodium-Ion Battery Cathode Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Layered Oxide Sodium-Ion Battery Cathode Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Layered Oxide Sodium-Ion Battery Cathode Material 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 Layered Oxide Sodium-Ion Battery Cathode Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Layered Oxide Sodium-Ion Battery Cathode Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

O3-Type Layered Oxide

P2-Type Layered Oxide

P3-Type Layered Oxide

Biphasic O/P Layered Oxide

Other Layered Oxide

Segmentation by Transition Metal System:

Ni-Mn-Based Layered Oxide

Ni-Fe-Mn-Based Layered Oxide

Fe-Mn-Based Layered Oxide

Cu-Fe-Mn-Based Layered Oxide

Ni-Co-Mn-Based Layered Oxide

Other Multi-Metal Layered Oxide

Segmentation by Performance Positioning:

Energy Grade

Power Grade

Long-Life Grade

Low-Cost Grade

Low-Temperature Grade

Other Performance Grade

Segmentation by Particle Morphology:

Single-Crystal Particle

Polycrystalline Secondary Particle

Spherical Granulated Particle

Fine Powder Particle

Other Particle Morphology

Segmentation by Application:

Stationary Energy Storage

Low-Speed Electric Vehicles

Two-Wheelers and Micro-Mobility

Starter and Backup Power

Portable and Small Power Batteries

Other Battery Applications

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.

Ronbay Technology

BTR

Zhenhua E-Chem

Easpring

NaTRIUM Energy

Amandarry

Eagleenergy

NEI

TOB New Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global Layered Oxide Sodium-Ion Battery Cathode Material market?

What factors are driving Layered Oxide Sodium-Ion Battery Cathode Material market

growth, globally and by region?

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

How do Layered Oxide Sodium-Ion Battery Cathode Material market opportunities vary by end market size?

How does Layered Oxide Sodium-Ion Battery Cathode Material break out by Type, by Application?

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