

# Global Polymorphic High-Nickel NCM Ternary Precursor Market Growth 2023-2029

<https://marketpublishers.com/r/G17F14E13805EN.html>

Date: August 2023

Pages: 90

Price: US\$ 3,660.00 (Single User License)

ID: G17F14E13805EN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our (LP Info Research) latest study, the global Polymorphic High-Nickel NCM Ternary Precursor market size was valued at US\$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Polymorphic High-Nickel NCM Ternary Precursor is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Polymorphic High-Nickel NCM Ternary Precursor market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Polymorphic High-Nickel NCM Ternary Precursor are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Polymorphic High-Nickel NCM Ternary Precursor. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Polymorphic High-Nickel NCM Ternary Precursor market.

The polymorphic high-nickel NCM ternary precursor is a precursor material for the synthesis of polymorphic  $\text{LiNi}_x\text{Co}_y\text{Mn}_z\text{O}_2$  (NCM) cathode materials for lithium-ion batteries. Polymorphic NCM cathodes have different crystal structures, such as layered, spinel, or rock salt, depending on the synthesis conditions and the composition ratios of Ni, Co, and Mn<sup>1</sup>. Compared with conventional NCM cathodes, polymorphic NCM cathodes can provide improved electrochemical performance, such as higher capacity, better rate capability, and longer cycle life. Polymorphic nickel-rich NCM ternary

precursors are usually prepared by a co-precipitation method, which involves the precipitation of mixed metal hydroxides from solutions containing Ni, Co, and Mn salts. High nickel content refers to the proportion of Ni in the composition, generally above 60%. The higher the nickel content, the higher the specific capacity and energy density of the cathode material.

#### Key Features:

The report on Polymorphic High-Nickel NCM Ternary Precursor market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Polymorphic High-Nickel NCM Ternary Precursor market. It may include historical data, market segmentation by Type (e.g., NCM811, NCM622), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Polymorphic High-Nickel NCM Ternary Precursor market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Polymorphic High-Nickel NCM Ternary Precursor market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Polymorphic High-Nickel NCM Ternary Precursor industry. This include advancements in Polymorphic High-Nickel NCM Ternary Precursor technology, Polymorphic High-Nickel NCM Ternary Precursor new entrants, Polymorphic High-Nickel NCM Ternary Precursor new investment, and other innovations that are shaping the future of Polymorphic High-Nickel NCM Ternary Precursor.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Polymorphic High-Nickel NCM Ternary Precursor market. It includes factors influencing customer ' purchasing decisions, preferences for Polymorphic High-Nickel NCM Ternary Precursor product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Polymorphic High-Nickel NCM Ternary Precursor market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Polymorphic High-Nickel NCM Ternary Precursor market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Polymorphic High-Nickel NCM Ternary Precursor market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Polymorphic High-Nickel NCM Ternary Precursor industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Polymorphic High-Nickel NCM Ternary Precursor market.

**Market Segmentation:**

Polymorphic High-Nickel NCM Ternary Precursor market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

**Segmentation by type**

NCM811

NCM622

NCM523

NCM111

Segmentation by application

Automobile Industry

Consumer Electronics Industry

Energy Storage Industry

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 analyzing the company's coverage, product portfolio, its market penetration.

Zhejiang Power New Energy Co., Ltd.

GEM

Huayou Cobalt

CNGR Advanced Materials

Brunp

Libode

Hunan Kingfuli New Energy

Greatpower Technology

JIANA ENERGY

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Polymorphic High-Nickel NCM Ternary Precursor market?

What factors are driving Polymorphic High-Nickel NCM Ternary Precursor market growth, globally and by region?

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

How do Polymorphic High-Nickel NCM Ternary Precursor market opportunities vary by end market size?

How does Polymorphic High-Nickel NCM Ternary Precursor break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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