

Global NMC Lithium-Ion Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NMC Lithium-Ion Batteries market size is expected to reach \$ 214909 million by 2032, rising at a market growth of 15.8% CAGR during the forecast period (2026-2032).

NMC lithium-ion batteries are a type of lithium-ion battery that use nickel, manganese, and cobalt as cathode materials. By adjusting the ratio of these metals, they achieve a balance between energy density, safety, and cost, making them one of the dominant battery technologies in electric vehicles and energy storage systems.

In 2025, global production of NMC lithium-ion batteries is projected to reach 570 GWh, with an average price of \$128 per kWh.

As a relatively mature battery technology, the upstream mainly includes suppliers of cathode materials, anode materials, electrolytes, and separators. Among these, ternary cathode materials play a critical role, while the supply and processing of lithium, nickel, and cobalt resources are essential to performance and cost. Key materials and technologies are provided by companies such as Ganfeng Lithium and Umicore, which shape the overall cost structure and performance.

The downstream segment is the primary value driver, covering electric vehicles, energy storage systems, and consumer electronics. In the EV sector, NMC batteries are widely used in passenger vehicles due to their high energy density, enabling longer driving range. In energy storage, although some applications are shifting toward LFP batteries, NMC still maintains advantages in scenarios requiring higher energy density. In consumer electronics, NMC batteries are used in laptops and high-end portable devices to support lightweight design and extended battery life. Demand is driven by increasing

EV penetration, growing range requirements, and sustained demand for high-performance batteries, supported by global electrification and energy transition trends.

In terms of trends, NMC batteries are evolving toward higher nickel content and lower cobalt usage to improve energy density and reduce costs. Material optimization and structural improvements are also enhancing safety and cycle life. Key drivers include intensifying competition in the EV market, rising demand for longer range, and pressure to reduce material costs. However, challenges include price volatility of nickel and cobalt, stricter safety requirements, and competition from alternative technologies such as LFP batteries.

Regarding profitability, NMC lithium-ion batteries generally have moderate gross margins. High dependence on raw materials makes margins sensitive to price fluctuations, but technological upgrades and economies of scale can improve profitability. High-nickel premium products typically offer higher margins, while leading companies maintain relatively stable profitability through supply chain control and technological advantages. New entrants face challenges related to resource access and technical barriers.

This report studies the global NMC Lithium-Ion Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NMC Lithium-Ion Batteries and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of NMC Lithium-Ion Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NMC Lithium-Ion Batteries total production and demand, 2021-2032, (MWh)

Global NMC Lithium-Ion Batteries total production value, 2021-2032, (USD Million)

Global NMC Lithium-Ion Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MWh), (based on production site)

Global NMC Lithium-Ion Batteries consumption by region & country, CAGR, 2021-2032 & (MWh)

U.S. VS China: NMC Lithium-Ion Batteries domestic production, consumption, key domestic manufacturers and share

Global NMC Lithium-Ion Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MWh)

Global NMC Lithium-Ion Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

Global NMC Lithium-Ion Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

This report profiles key players in the global NMC Lithium-Ion Batteries market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CATL, LG Energy Solution, Samsung SDI, SK On, EVE Energy, CALB, Sunwoda, Farasis Energy, Envision AESC, ACC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World NMC Lithium-Ion Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MWh) and average price (US\$/KWh) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global NMC Lithium-Ion Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NMC Lithium-Ion Batteries Market, Segmentation by Type:

NMC111

NMC532

NMC622

NMC811

NMC9055

NMC9550

Others

Global NMC Lithium-Ion Batteries Market, Segmentation by Discharge Rate:

Below 1C

1C-5C

5C-20C

Above 20C

Global NMC Lithium-Ion Batteries Market, Segmentation by Packaging Structure Form:

Cylindrical NMC Lithium-Ion Batteries

Prismatic Aluminum Case NMC Lithium-Ion Batteries

Pouch Polymer NMC Lithium-Ion Batteries

Global NMC Lithium-Ion Batteries Market, Segmentation by Single Cell Voltage:

3.6V/3.7V

4.35V/4.4V

Global NMC Lithium-Ion Batteries Market, Segmentation by Application:

New Energy Passenger and Commercial Vehicles

Consumer Electronics and Smart Terminals

Power Tools and Light Scooters

Grid and Commercial & Industrial Energy Storage

Aerospace and Special Equipment

Industrial Equipment and UPS Backup Power

Companies Profiled:

CATL

LG Energy Solution

Samsung SDI

SK On

EVE Energy

CALB

Sunwoda

Farasis Energy

Envision AESC

ACC

PowerCo

Key Questions Answered:

1. How big is the global NMC Lithium-Ion Batteries market?
2. What is the demand of the global NMC Lithium-Ion Batteries market?
3. What is the year over year growth of the global NMC Lithium-Ion Batteries market?
4. What is the production and production value of the global NMC Lithium-Ion Batteries market?
5. Who are the key producers in the global NMC Lithium-Ion Batteries market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 NMC Lithium-Ion Batteries Introduction
- 1.2 World NMC Lithium-Ion Batteries Supply & Forecast
 - 1.2.1 World NMC Lithium-Ion Batteries Production Value (2021 & 2025 & 2032)
 - 1.2.2 World NMC Lithium-Ion Batteries Production (2021-2032)
 - 1.2.3 World NMC Lithium-Ion Batteries Pricing Trends (2021-2032)
- 1.3 World NMC Lithium-Ion Batteries Production by Region (Based on Production Site)
 - 1.3.1 World NMC Lithium-Ion Batteries Production Value by Region (2021-2032)
 - 1.3.2 World NMC Lithium-Ion Batteries Production by Region (2021-2032)
 - 1.3.3 World NMC Lithium-Ion Batteries Average Price by Region (2021-2032)
 - 1.3.4 North America NMC Lithium-Ion Batteries Production (2021-2032)
 - 1.3.5 Europe NMC Lithium-Ion Batteries Production (2021-2032)
 - 1.3.6 China NMC Lithium-Ion Batteries Production (2021-2032)
 - 1.3.7 Japan NMC Lithium-Ion Batteries Production (2021-2032)
 - 1.3.8 South Korea NMC Lithium-Ion Batteries Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 NMC Lithium-Ion Batteries Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 NMC Lithium-Ion Batteries Major Market Trends

2 DEMAND SUMMARY

- 2.1 World NMC Lithium-Ion Batteries Demand (2021-2032)
- 2.2 World NMC Lithium-Ion Batteries Consumption by Region
 - 2.2.1 World NMC Lithium-Ion Batteries Consumption by Region (2021-2026)
 - 2.2.2 World NMC Lithium-Ion Batteries Consumption Forecast by Region (2027-2032)
- 2.3 United States NMC Lithium-Ion Batteries Consumption (2021-2032)
- 2.4 China NMC Lithium-Ion Batteries Consumption (2021-2032)
- 2.5 Europe NMC Lithium-Ion Batteries Consumption (2021-2032)
- 2.6 Japan NMC Lithium-Ion Batteries Consumption (2021-2032)
- 2.7 South Korea NMC Lithium-Ion Batteries Consumption (2021-2032)
- 2.8 ASEAN NMC Lithium-Ion Batteries Consumption (2021-2032)
- 2.9 India NMC Lithium-Ion Batteries Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World NMC Lithium-Ion Batteries Production Value by Manufacturer (2021-2026)
- 3.2 World NMC Lithium-Ion Batteries Production by Manufacturer (2021-2026)
- 3.3 World NMC Lithium-Ion Batteries Average Price by Manufacturer (2021-2026)
- 3.4 NMC Lithium-Ion Batteries Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global NMC Lithium-Ion Batteries Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for NMC Lithium-Ion Batteries in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for NMC Lithium-Ion Batteries in 2025
- 3.6 NMC Lithium-Ion Batteries Market: Overall Company Footprint Analysis
 - 3.6.1 NMC Lithium-Ion Batteries Market: Region Footprint
 - 3.6.2 NMC Lithium-Ion Batteries Market: Company Product Type Footprint
 - 3.6.3 NMC Lithium-Ion Batteries Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: NMC Lithium-Ion Batteries Production Value Comparison
 - 4.1.1 United States VS China: NMC Lithium-Ion Batteries Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: NMC Lithium-Ion Batteries Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: NMC Lithium-Ion Batteries Production Comparison
 - 4.2.1 United States VS China: NMC Lithium-Ion Batteries Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: NMC Lithium-Ion Batteries Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: NMC Lithium-Ion Batteries Consumption Comparison
 - 4.3.1 United States VS China: NMC Lithium-Ion Batteries Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: NMC Lithium-Ion Batteries Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based NMC Lithium-Ion Batteries Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based NMC Lithium-Ion Batteries Manufacturers, Headquarters

and Production Site (States, Country)

4.4.2 United States Based Manufacturers NMC Lithium-Ion Batteries Production Value (2021-2026)

4.4.3 United States Based Manufacturers NMC Lithium-Ion Batteries Production (2021-2026)

4.5 China Based NMC Lithium-Ion Batteries Manufacturers and Market Share

4.5.1 China Based NMC Lithium-Ion Batteries Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers NMC Lithium-Ion Batteries Production Value (2021-2026)

4.5.3 China Based Manufacturers NMC Lithium-Ion Batteries Production (2021-2026)

4.6 Rest of World Based NMC Lithium-Ion Batteries Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based NMC Lithium-Ion Batteries Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World NMC Lithium-Ion Batteries Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 NMC111

5.2.2 NMC532

5.2.3 NMC622

5.2.4 NMC811

5.2.5 NMC9055

5.2.6 NMC9550

5.2.7 Others

5.3 Market Segment by Type

5.3.1 World NMC Lithium-Ion Batteries Production by Type (2021-2032)

5.3.2 World NMC Lithium-Ion Batteries Production Value by Type (2021-2032)

5.3.3 World NMC Lithium-Ion Batteries Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DISCHARGE RATE

6.1 World NMC Lithium-Ion Batteries Market Size Overview by Discharge Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Discharge Rate

6.2.1 Below 1C

6.2.2 1C-5C

6.2.3 5C-20C

6.2.4 Above 20C

6.3 Market Segment by Discharge Rate

6.3.1 World NMC Lithium-Ion Batteries Production by Discharge Rate (2021-2032)

6.3.2 World NMC Lithium-Ion Batteries Production Value by Discharge Rate (2021-2032)

6.3.3 World NMC Lithium-Ion Batteries Average Price by Discharge Rate (2021-2032)

7 MARKET ANALYSIS BY PACKAGING STRUCTURE FORM

7.1 World NMC Lithium-Ion Batteries Market Size Overview by Packaging Structure Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Packaging Structure Form

7.2.1 Cylindrical NMC Lithium-Ion Batteries

7.2.2 Prismatic Aluminum Case NMC Lithium-Ion Batteries

7.2.3 Pouch Polymer NMC Lithium-Ion Batteries

7.3 Market Segment by Packaging Structure Form

7.3.1 World NMC Lithium-Ion Batteries Production by Packaging Structure Form (2021-2032)

7.3.2 World NMC Lithium-Ion Batteries Production Value by Packaging Structure Form (2021-2032)

7.3.3 World NMC Lithium-Ion Batteries Average Price by Packaging Structure Form (2021-2032)

8 MARKET ANALYSIS BY SINGLE CELL VOLTAGE

8.1 World NMC Lithium-Ion Batteries Market Size Overview by Single Cell Voltage: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Single Cell Voltage

8.2.1 3.6V/3.7V

8.2.2 4.35V/4.4V

8.3 Market Segment by Single Cell Voltage

8.3.1 World NMC Lithium-Ion Batteries Production by Single Cell Voltage (2021-2032)

8.3.2 World NMC Lithium-Ion Batteries Production Value by Single Cell Voltage

(2021-2032)

8.3.3 World NMC Lithium-Ion Batteries Average Price by Single Cell Voltage

(2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World NMC Lithium-Ion Batteries Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 New Energy Passenger and Commercial Vehicles

9.2.2 Consumer Electronics and Smart Terminals

9.2.3 Power Tools and Light Scooters

9.2.4 Grid and Commercial & Industrial Energy Storage

9.2.5 Aerospace and Special Equipment

9.2.6 Industrial Equipment and UPS Backup Power

9.3 Market Segment by Application

9.3.1 World NMC Lithium-Ion Batteries Production by Application (2021-2032)

9.3.2 World NMC Lithium-Ion Batteries Production Value by Application (2021-2032)

9.3.3 World NMC Lithium-Ion Batteries Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 CATL

10.1.1 CATL Details

10.1.2 CATL Major Business

10.1.3 CATL NMC Lithium-Ion Batteries Product and Services

10.1.4 CATL NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 CATL Recent Developments/Updates

10.1.6 CATL Competitive Strengths & Weaknesses

10.2 LG Energy Solution

10.2.1 LG Energy Solution Details

10.2.2 LG Energy Solution Major Business

10.2.3 LG Energy Solution NMC Lithium-Ion Batteries Product and Services

10.2.4 LG Energy Solution NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 LG Energy Solution Recent Developments/Updates

10.2.6 LG Energy Solution Competitive Strengths & Weaknesses

10.3 Samsung SDI

- 10.3.1 Samsung SDI Details
- 10.3.2 Samsung SDI Major Business
- 10.3.3 Samsung SDI NMC Lithium-Ion Batteries Product and Services
- 10.3.4 Samsung SDI NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.3.5 Samsung SDI Recent Developments/Updates
- 10.3.6 Samsung SDI Competitive Strengths & Weaknesses
- 10.4 SK On
 - 10.4.1 SK On Details
 - 10.4.2 SK On Major Business
 - 10.4.3 SK On NMC Lithium-Ion Batteries Product and Services
 - 10.4.4 SK On NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 SK On Recent Developments/Updates
 - 10.4.6 SK On Competitive Strengths & Weaknesses
- 10.5 EVE Energy
 - 10.5.1 EVE Energy Details
 - 10.5.2 EVE Energy Major Business
 - 10.5.3 EVE Energy NMC Lithium-Ion Batteries Product and Services
 - 10.5.4 EVE Energy NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 EVE Energy Recent Developments/Updates
 - 10.5.6 EVE Energy Competitive Strengths & Weaknesses
- 10.6 CALB
 - 10.6.1 CALB Details
 - 10.6.2 CALB Major Business
 - 10.6.3 CALB NMC Lithium-Ion Batteries Product and Services
 - 10.6.4 CALB NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 CALB Recent Developments/Updates
 - 10.6.6 CALB Competitive Strengths & Weaknesses
- 10.7 Sunwoda
 - 10.7.1 Sunwoda Details
 - 10.7.2 Sunwoda Major Business
 - 10.7.3 Sunwoda NMC Lithium-Ion Batteries Product and Services
 - 10.7.4 Sunwoda NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Sunwoda Recent Developments/Updates
 - 10.7.6 Sunwoda Competitive Strengths & Weaknesses

10.8 Farasis Energy

10.8.1 Farasis Energy Details

10.8.2 Farasis Energy Major Business

10.8.3 Farasis Energy NMC Lithium-Ion Batteries Product and Services

10.8.4 Farasis Energy NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 Farasis Energy Recent Developments/Updates

10.8.6 Farasis Energy Competitive Strengths & Weaknesses

10.9 Envision AESC

10.9.1 Envision AESC Details

10.9.2 Envision AESC Major Business

10.9.3 Envision AESC NMC Lithium-Ion Batteries Product and Services

10.9.4 Envision AESC NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.9.5 Envision AESC Recent Developments/Updates

10.9.6 Envision AESC Competitive Strengths & Weaknesses

10.10 ACC

10.10.1 ACC Details

10.10.2 ACC Major Business

10.10.3 ACC NMC Lithium-Ion Batteries Product and Services

10.10.4 ACC NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.10.5 ACC Recent Developments/Updates

10.10.6 ACC Competitive Strengths & Weaknesses

10.11 PowerCo

10.11.1 PowerCo Details

10.11.2 PowerCo Major Business

10.11.3 PowerCo NMC Lithium-Ion Batteries Product and Services

10.11.4 PowerCo NMC Lithium-Ion Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 PowerCo Recent Developments/Updates

10.11.6 PowerCo Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 NMC Lithium-Ion Batteries Industry Chain

11.2 NMC Lithium-Ion Batteries Upstream Analysis

11.2.1 NMC Lithium-Ion Batteries Core Raw Materials

11.2.2 Main Manufacturers of NMC Lithium-Ion Batteries Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 NMC Lithium-Ion Batteries Production Mode

11.6 NMC Lithium-Ion Batteries Procurement Model

11.7 NMC Lithium-Ion Batteries Industry Sales Model and Sales Channels

11.7.1 NMC Lithium-Ion Batteries Sales Model

11.7.2 NMC Lithium-Ion Batteries Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World NMC Lithium-Ion Batteries Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World NMC Lithium-Ion Batteries Production Value by Region (2021-2026) & (USD Million)

Table 3. World NMC Lithium-Ion Batteries Production Value by Region (2027-2032) & (USD Million)

Table 4. World NMC Lithium-Ion Batteries Production Value Market Share by Region (2021-2026)

Table 5. World NMC Lithium-Ion Batteries Production Value Market Share by Region (2027-2032)

Table 6. World NMC Lithium-Ion Batteries Production by Region (2021-2026) & (MWh)

Table 7. World NMC Lithium-Ion Batteries Production by Region (2027-2032) & (MWh)

Table 8. World NMC Lithium-Ion Batteries Production Market Share by Region (2021-2026)

Table 9. World NMC Lithium-Ion Batteries Production Market Share by Region (2027-2032)

Table 10. World NMC Lithium-Ion Batteries Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World NMC Lithium-Ion Batteries Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. NMC Lithium-Ion Batteries Major Market Trends

Table 13. World NMC Lithium-Ion Batteries Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MWh)

Table 14. World NMC Lithium-Ion Batteries Consumption by Region (2021-2026) & (MWh)

Table 15. World NMC Lithium-Ion Batteries Consumption Forecast by Region (2027-2032) & (MWh)

Table 16. World NMC Lithium-Ion Batteries Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key NMC Lithium-Ion Batteries Producers in 2025

Table 18. World NMC Lithium-Ion Batteries Production by Manufacturer (2021-2026) & (MWh)

Table 19. Production Market Share of Key NMC Lithium-Ion Batteries Producers in 2025

Table 20. World NMC Lithium-Ion Batteries Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 21. Global NMC Lithium-Ion Batteries Company Evaluation Quadrant

Table 22. World NMC Lithium-Ion Batteries Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and NMC Lithium-Ion Batteries Production Site of Key Manufacturer

Table 24. NMC Lithium-Ion Batteries Market: Company Product Type Footprint

Table 25. NMC Lithium-Ion Batteries Market: Company Product Application Footprint

Table 26. NMC Lithium-Ion Batteries Competitive Factors

Table 27. NMC Lithium-Ion Batteries New Entrant and Capacity Expansion Plans

Table 28. NMC Lithium-Ion Batteries Mergers & Acquisitions Activity

Table 29. United States VS China NMC Lithium-Ion Batteries Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China NMC Lithium-Ion Batteries Production Comparison, (2021 & 2025 & 2032) & (MWh)

Table 31. United States VS China NMC Lithium-Ion Batteries Consumption Comparison, (2021 & 2025 & 2032) & (MWh)

Table 32. United States Based NMC Lithium-Ion Batteries Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers NMC Lithium-Ion Batteries Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers NMC Lithium-Ion Batteries Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers NMC Lithium-Ion Batteries Production (2021-2026) & (MWh)

Table 36. United States Based Manufacturers NMC Lithium-Ion Batteries Production Market Share (2021-2026)

Table 37. China Based NMC Lithium-Ion Batteries Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers NMC Lithium-Ion Batteries Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers NMC Lithium-Ion Batteries Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers NMC Lithium-Ion Batteries Production, (2021-2026) & (MWh)

Table 41. China Based Manufacturers NMC Lithium-Ion Batteries Production Market Share (2021-2026)

Table 42. Rest of World Based NMC Lithium-Ion Batteries Manufacturers, Headquarters

and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production, (2021-2026) & (MWh)

Table 46. Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production Market Share (2021-2026)

Table 47. World NMC Lithium-Ion Batteries Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World NMC Lithium-Ion Batteries Production by Type (2021-2026) & (MWh)

Table 49. World NMC Lithium-Ion Batteries Production by Type (2027-2032) & (MWh)

Table 50. World NMC Lithium-Ion Batteries Production Value by Type (2021-2026) & (USD Million)

Table 51. World NMC Lithium-Ion Batteries Production Value by Type (2027-2032) & (USD Million)

Table 52. World NMC Lithium-Ion Batteries Average Price by Type (2021-2026) & (US\$/KWh)

Table 53. World NMC Lithium-Ion Batteries Average Price by Type (2027-2032) & (US\$/KWh)

Table 54. World NMC Lithium-Ion Batteries Production Value by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Table 55. World NMC Lithium-Ion Batteries Production by Discharge Rate (2021-2026) & (MWh)

Table 56. World NMC Lithium-Ion Batteries Production by Discharge Rate (2027-2032) & (MWh)

Table 57. World NMC Lithium-Ion Batteries Production Value by Discharge Rate (2021-2026) & (USD Million)

Table 58. World NMC Lithium-Ion Batteries Production Value by Discharge Rate (2027-2032) & (USD Million)

Table 59. World NMC Lithium-Ion Batteries Average Price by Discharge Rate (2021-2026) & (US\$/KWh)

Table 60. World NMC Lithium-Ion Batteries Average Price by Discharge Rate (2027-2032) & (US\$/KWh)

Table 61. World NMC Lithium-Ion Batteries Production Value by Packaging Structure Form, (USD Million), 2021 & 2025 & 2032

Table 62. World NMC Lithium-Ion Batteries Production by Packaging Structure Form (2021-2026) & (MWh)

Table 63. World NMC Lithium-Ion Batteries Production by Packaging Structure Form (2027-2032) & (MWh)

Table 64. World NMC Lithium-Ion Batteries Production Value by Packaging Structure Form (2021-2026) & (USD Million)

Table 65. World NMC Lithium-Ion Batteries Production Value by Packaging Structure Form (2027-2032) & (USD Million)

Table 66. World NMC Lithium-Ion Batteries Average Price by Packaging Structure Form (2021-2026) & (US\$/KWh)

Table 67. World NMC Lithium-Ion Batteries Average Price by Packaging Structure Form (2027-2032) & (US\$/KWh)

Table 68. World NMC Lithium-Ion Batteries Production Value by Single Cell Voltage, (USD Million), 2021 & 2025 & 2032

Table 69. World NMC Lithium-Ion Batteries Production by Single Cell Voltage (2021-2026) & (MWh)

Table 70. World NMC Lithium-Ion Batteries Production by Single Cell Voltage (2027-2032) & (MWh)

Table 71. World NMC Lithium-Ion Batteries Production Value by Single Cell Voltage (2021-2026) & (USD Million)

Table 72. World NMC Lithium-Ion Batteries Production Value by Single Cell Voltage (2027-2032) & (USD Million)

Table 73. World NMC Lithium-Ion Batteries Average Price by Single Cell Voltage (2021-2026) & (US\$/KWh)

Table 74. World NMC Lithium-Ion Batteries Average Price by Single Cell Voltage (2027-2032) & (US\$/KWh)

Table 75. World NMC Lithium-Ion Batteries Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World NMC Lithium-Ion Batteries Production by Application (2021-2026) & (MWh)

Table 77. World NMC Lithium-Ion Batteries Production by Application (2027-2032) & (MWh)

Table 78. World NMC Lithium-Ion Batteries Production Value by Application (2021-2026) & (USD Million)

Table 79. World NMC Lithium-Ion Batteries Production Value by Application (2027-2032) & (USD Million)

Table 80. World NMC Lithium-Ion Batteries Average Price by Application (2021-2026) & (US\$/KWh)

Table 81. World NMC Lithium-Ion Batteries Average Price by Application (2027-2032) & (US\$/KWh)

Table 82. CATL Basic Information, Manufacturing Base and Competitors

Table 83. CATL Major Business

Table 84. CATL NMC Lithium-Ion Batteries Product and Services

Table 85. CATL NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. CATL Recent Developments/Updates

Table 87. CATL Competitive Strengths & Weaknesses

Table 88. LG Energy Solution Basic Information, Manufacturing Base and Competitors

Table 89. LG Energy Solution Major Business

Table 90. LG Energy Solution NMC Lithium-Ion Batteries Product and Services

Table 91. LG Energy Solution NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. LG Energy Solution Recent Developments/Updates

Table 93. LG Energy Solution Competitive Strengths & Weaknesses

Table 94. Samsung SDI Basic Information, Manufacturing Base and Competitors

Table 95. Samsung SDI Major Business

Table 96. Samsung SDI NMC Lithium-Ion Batteries Product and Services

Table 97. Samsung SDI NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Samsung SDI Recent Developments/Updates

Table 99. Samsung SDI Competitive Strengths & Weaknesses

Table 100. SK On Basic Information, Manufacturing Base and Competitors

Table 101. SK On Major Business

Table 102. SK On NMC Lithium-Ion Batteries Product and Services

Table 103. SK On NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. SK On Recent Developments/Updates

Table 105. SK On Competitive Strengths & Weaknesses

Table 106. EVE Energy Basic Information, Manufacturing Base and Competitors

Table 107. EVE Energy Major Business

Table 108. EVE Energy NMC Lithium-Ion Batteries Product and Services

Table 109. EVE Energy NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. EVE Energy Recent Developments/Updates

Table 111. EVE Energy Competitive Strengths & Weaknesses

Table 112. CALB Basic Information, Manufacturing Base and Competitors

Table 113. CALB Major Business

- Table 114. CALB NMC Lithium-Ion Batteries Product and Services
- Table 115. CALB NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 116. CALB Recent Developments/Updates
- Table 117. CALB Competitive Strengths & Weaknesses
- Table 118. Sunwoda Basic Information, Manufacturing Base and Competitors
- Table 119. Sunwoda Major Business
- Table 120. Sunwoda NMC Lithium-Ion Batteries Product and Services
- Table 121. Sunwoda NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 122. Sunwoda Recent Developments/Updates
- Table 123. Sunwoda Competitive Strengths & Weaknesses
- Table 124. Farasis Energy Basic Information, Manufacturing Base and Competitors
- Table 125. Farasis Energy Major Business
- Table 126. Farasis Energy NMC Lithium-Ion Batteries Product and Services
- Table 127. Farasis Energy NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 128. Farasis Energy Recent Developments/Updates
- Table 129. Farasis Energy Competitive Strengths & Weaknesses
- Table 130. Envision AESC Basic Information, Manufacturing Base and Competitors
- Table 131. Envision AESC Major Business
- Table 132. Envision AESC NMC Lithium-Ion Batteries Product and Services
- Table 133. Envision AESC NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 134. Envision AESC Recent Developments/Updates
- Table 135. Envision AESC Competitive Strengths & Weaknesses
- Table 136. ACC Basic Information, Manufacturing Base and Competitors
- Table 137. ACC Major Business
- Table 138. ACC NMC Lithium-Ion Batteries Product and Services
- Table 139. ACC NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 140. ACC Recent Developments/Updates
- Table 141. ACC Competitive Strengths & Weaknesses
- Table 142. PowerCo Basic Information, Manufacturing Base and Competitors
- Table 143. PowerCo Major Business
- Table 144. PowerCo NMC Lithium-Ion Batteries Product and Services
- Table 145. PowerCo NMC Lithium-Ion Batteries Production (MWh), Price (US\$/KWh),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. PowerCo Recent Developments/Updates

Table 147. PowerCo Competitive Strengths & Weaknesses

Table 148. Global Key Players of NMC Lithium-Ion Batteries Upstream (Raw Materials)

Table 149. Global NMC Lithium-Ion Batteries Typical Customers

Table 150. NMC Lithium-Ion Batteries Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. NMC Lithium-Ion Batteries Picture
- Figure 2. World NMC Lithium-Ion Batteries Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World NMC Lithium-Ion Batteries Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World NMC Lithium-Ion Batteries Production (2021-2032) & (MWh)
- Figure 5. World NMC Lithium-Ion Batteries Average Price (2021-2032) & (US\$/KWh)
- Figure 6. World NMC Lithium-Ion Batteries Production Value Market Share by Region (2021-2032)
- Figure 7. World NMC Lithium-Ion Batteries Production Market Share by Region (2021-2032)
- Figure 8. North America NMC Lithium-Ion Batteries Production (2021-2032) & (MWh)
- Figure 9. Europe NMC Lithium-Ion Batteries Production (2021-2032) & (MWh)
- Figure 10. China NMC Lithium-Ion Batteries Production (2021-2032) & (MWh)
- Figure 11. Japan NMC Lithium-Ion Batteries Production (2021-2032) & (MWh)
- Figure 12. South Korea NMC Lithium-Ion Batteries Production (2021-2032) & (MWh)
- Figure 13. NMC Lithium-Ion Batteries Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 16. World NMC Lithium-Ion Batteries Consumption Market Share by Region (2021-2032)
- Figure 17. United States NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 18. China NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 19. Europe NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 20. Japan NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 21. South Korea NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 22. ASEAN NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 23. India NMC Lithium-Ion Batteries Consumption (2021-2032) & (MWh)
- Figure 24. Producer Shipments of NMC Lithium-Ion Batteries by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for NMC Lithium-Ion Batteries Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for NMC Lithium-Ion Batteries Markets in 2025
- Figure 27. United States VS China: NMC Lithium-Ion Batteries Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: NMC Lithium-Ion Batteries Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: NMC Lithium-Ion Batteries Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers NMC Lithium-Ion Batteries Production Market Share 2025

Figure 31. China Based Manufacturers NMC Lithium-Ion Batteries Production Market Share 2025

Figure 32. Rest of World Based Manufacturers NMC Lithium-Ion Batteries Production Market Share 2025

Figure 33. World NMC Lithium-Ion Batteries Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World NMC Lithium-Ion Batteries Production Value Market Share by Type in 2025

Figure 35. NMC111

Figure 36. NMC532

Figure 37. NMC622

Figure 38. NMC811

Figure 39. NMC9055

Figure 40. NMC9550

Figure 41. Others

Figure 42. Others

Figure 43. World NMC Lithium-Ion Batteries Production Market Share by Type (2021-2032)

Figure 44. World NMC Lithium-Ion Batteries Production Value Market Share by Type (2021-2032)

Figure 45. World NMC Lithium-Ion Batteries Average Price by Type (2021-2032) & (US\$/KWh)

Figure 46. World NMC Lithium-Ion Batteries Production Value by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Figure 47. World NMC Lithium-Ion Batteries Production Value Market Share by Discharge Rate in 2025

Figure 48. Below 1C

Figure 49. 1C-5C

Figure 50. 5C-20C

Figure 51. Above 20C

Figure 52. World NMC Lithium-Ion Batteries Production Market Share by Discharge Rate (2021-2032)

Figure 53. World NMC Lithium-Ion Batteries Production Value Market Share by Discharge Rate (2021-2032)

Figure 54. World NMC Lithium-Ion Batteries Average Price by Discharge Rate (2021-2032) & (US\$/KWh)

Figure 55. World NMC Lithium-Ion Batteries Production Value by Packaging Structure Form, (USD Million), 2021 & 2025 & 2032

Figure 56. World NMC Lithium-Ion Batteries Production Value Market Share by Packaging Structure Form in 2025

Figure 57. Cylindrical NMC Lithium-Ion Batteries

Figure 58. Prismatic Aluminum Case NMC Lithium-Ion Batteries

Figure 59. Pouch Polymer NMC Lithium-Ion Batteries

Figure 60. World NMC Lithium-Ion Batteries Production Market Share by Packaging Structure Form (2021-2032)

Figure 61. World NMC Lithium-Ion Batteries Production Value Market Share by Packaging Structure Form (2021-2032)

Figure 62. World NMC Lithium-Ion Batteries Average Price by Packaging Structure Form (2021-2032) & (US\$/KWh)

Figure 63. World NMC Lithium-Ion Batteries Production Value by Single Cell Voltage, (USD Million), 2021 & 2025 & 2032

Figure 64. World NMC Lithium-Ion Batteries Production Value Market Share by Single Cell Voltage in 2025

Figure 65. 3.6V/3.7V

Figure 66. 4.35V/4.4V

Figure 67. World NMC Lithium-Ion Batteries Production Market Share by Single Cell Voltage (2021-2032)

Figure 68. World NMC Lithium-Ion Batteries Production Value Market Share by Single Cell Voltage (2021-2032)

Figure 69. World NMC Lithium-Ion Batteries Average Price by Single Cell Voltage (2021-2032) & (US\$/KWh)

Figure 70. World NMC Lithium-Ion Batteries Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 71. World NMC Lithium-Ion Batteries Production Value Market Share by Application in 2025

Figure 72. New Energy Passenger and Commercial Vehicles

Figure 73. Consumer Electronics and Smart Terminals

Figure 74. Power Tools and Light Scooters

Figure 75. Grid and Commercial & Industrial Energy Storage

Figure 76. Aerospace and Special Equipment

Figure 77. Industrial Equipment and UPS Backup Power

Figure 78. World NMC Lithium-Ion Batteries Production Market Share by Application (2021-2032)

Figure 79. World NMC Lithium-Ion Batteries Production Value Market Share by Application (2021-2032)

Figure 80. World NMC Lithium-Ion Batteries Average Price by Application (2021-2032) & (US\$/KWh)

Figure 81. NMC Lithium-Ion Batteries Industry Chain

Figure 82. NMC Lithium-Ion Batteries Procurement Model

Figure 83. NMC Lithium-Ion Batteries Sales Model

Figure 84. NMC Lithium-Ion Batteries Sales Channels, Direct Sales, and Distribution

Figure 85. Methodology

Figure 86. Research Process and Data Source

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