

Battery Metals Market Size, Share & Trends Analysis Report By Metal (Lithium, Nickel, Cobalt), By Application (EVs, Electronic Devices, Stationary Battery Energy Storage, SLI), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Battery Metals Market Growth & Trends

The global battery metals market is anticipated to reach USD 18.41 billion by 2030, expanding at a CAGR of 8.3%, from 2024 to 2030, according to a new report by Grand View Research, Inc. Increasing requirement of batteries in electric vehicles and energy storage systems is boosting market growth. Battery structure consists of 5 major components: casing, electrodes, separator, electrolyte, and collector.

Metals are used mainly in electrodes in different chemistries. Various metals are utilized in batteries, where lithium, cobalt, and nickel account for a major share. Lithium-based batteries' prominence is increasing owing to its rapid adoption in electric vehicles and energy storage systems.

Nickel is a major component in lithium-ion and other rechargeable batteries, and its adoption is increasing at an accelerated rate, owing to its phenomenal properties and low cost. In the near future, batteries are expected to form a major cost component in electric vehicles and other applications, and hence, it becomes vital for manufacturers to lower manufacturing costs.

Cobalt, one of the largest product segment of the market is witnessing a declining

demand trend owing to its high cost and growing concerns towards human rights and child labor during its mining in Democratic Republic of Congo. Factors including human and financial costs and high demand for energy density have propelled battery makers to reduce their reliance on cobalt. For instance, major manufacturers such as SK Innovation and LG Chem are in process of developing cathodes with NMC 811 chemistry that consists of 80.0% nickel and 10.0% cobalt.

Electric vehicles (EVs) are fastest growing application segment of the market. Consumption of metals in producing EV batteries is increasing, as unlike conventional vehicles, EVs require large batteries owing to absence of internal combustion engines. Increasing EV production is anticipated to surge demand for battery metals in near future.

Asia Pacific was the largest regional segment in 2023 and this trend is expected to continue over the forecast period. Factors such as rapid development in EV industry propelling battery demand, China's dominance over supply chain, and increasing production capacities in Japan and India are propelling market growth in the region.

Battery Metals Market Report Highlights

Based on metal, cobalt held the largest revenue share of over 44.0% in 2023 and is expected to grow at a significant CAGR over the forecast period. Increasing production of electric vehicles (EVs) is anticipated to lead to a surge in cobalt consumption during the forecast period. Lithium-nickel-manganese-cobalt-oxide (NMC) batteries, which constitute the most prevalent battery chemistries currently employed in EVs, consist of a cathode comprising 10-20% cobalt

Based on application segment, electric vehicles segment is the fastest-growing segment, with a CAGR of 9.0% in terms of revenue during the forecast period. Growing production of EVs across the globe is propelling demand for batteries and, eventually, metals

Starter, lighting, and ignition held a significant volume share in 2023 as automotive constitutes a major application share of batteries. It is anticipated to reduce over the forecast period owing to rising adoption of EVs over conventional vehicles

Asia Pacific dominated the market owing to several countries in region focusing

on battery production to cater to rising demand. Growing demand from EV industry has augmented battery makers to increase their production capacity

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Market Formulation & Data Visualization
 - 1.3.3. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. BATTERY METALS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Outlook
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Raw Material Trends
 - 3.2.2. Sales Channel Analysis
- 3.3. Manufacturing & Technology Overview
- 3.4. Regulatory Framework
- 3.5. Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Industry Challenges
 - 3.5.4. Industry Opportunities
- 3.6. Industry Analysis Tools
 - 3.6.1. Porter's Five Forces Analysis
 - 3.6.2. PESTEL Analysis

CHAPTER 4. BATTERY METALS MARKET: METAL ESTIMATES & TREND ANALYSIS

4.1. Metal Movement Analysis & Market Share, 2023 & 2030

4.2. Lithium

4.2.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.3. Nickel

4.3.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.4. Cobalt

4.4.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.5. Other Metals

4.5.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

CHAPTER 5. BATTERY METALS MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

5.1. Application Movement Analysis & Market Share, 2023 & 2030

5.2. Starter, Lighting, and Ignition

5.2.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3. Electric Vehicles

5.3.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4. Electronic Devices

5.4.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.5. Stationary Battery Energy Storage

5.5.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.6. Other Applications

5.6.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

CHAPTER 6. BATTERY METALS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Regional Movement Analysis & Market Share, 2023 & 2030

6.2. North America

6.2.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.2.2. Market Estimates and Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.2.3. Market Estimates and Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.2.4. U.S.

6.2.4.1. Key country dynamics

6.2.4.2. Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.2.4.3. Market Estimates & Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.2.4.4. Market Estimates & Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.3. Europe

6.3.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.3.2. Market Estimates and Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.3.3. Market Estimates and Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.3.4. Germany

6.3.4.1. Key country dynamics

6.3.4.2. Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.3.4.3. Market Estimates & Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.3.4.4. Market Estimates & Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.4. Asia Pacific

6.4.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.4.2. Market Estimates and Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.4.3. Market Estimates and Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.4.4. China

6.4.4.1. Key country dynamics

6.4.4.2. Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.4.4.3. Market Estimates & Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.4.4.4. Market Estimates & Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.4.5. Japan

6.4.5.1. Key country dynamics

6.4.5.2. Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.4.5.3. Market Estimates & Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.4.5.4. Market Estimates & Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.4.6. South Korea

6.4.6.1. Key country dynamics

6.4.6.2. Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.4.6.3. Market Estimates & Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.4.6.4. Market Estimates & Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

Million)

6.5. Central & South America

6.5.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.5.2. Market Estimates and Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.5.3. Market Estimates and Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

6.6. Middle East & Africa

6.6.1. Market Estimates and Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.6.2. Market Estimates and Forecasts, By Metal, 2018 - 2030 (Kilotons) (USD Million)

6.6.3. Market Estimates and Forecasts, By Application, 2018 - 2030 (Kilotons) (USD Million)

CHAPTER 7. BATTERY METALS MARKET - COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Company Categorization

7.3. Company Market Ranking Analysis, 2023

7.4. Company Heat Map Analysis

7.5. Strategy Mapping

7.6. Company Profiles/Listings

7.6.1. Albemarle

7.6.1.1. Participant's overview

7.6.1.2. Financial performance

7.6.1.3. Product benchmarking

7.6.1.4. Recent developments

7.6.2. Bolt Metals

7.6.2.1. Participant's overview

7.6.2.2. Financial performance

7.6.2.3. Product benchmarking

7.6.2.4. Recent developments

7.6.3. China Molybdenum Co., Ltd.

7.6.3.1. Participant's overview

7.6.3.2. Financial performance

7.6.3.3. Product benchmarking

7.6.3.4. Recent developments

7.6.4. Galaxy Resources Ltd.

7.6.4.1. Participant's overview

7.6.4.2. Financial performance

7.6.4.3. Product benchmarking

- 7.6.4.4. Recent developments
- 7.6.5. Gangfeng Lithium Co., Ltd.
 - 7.6.5.1. Participant's overview
 - 7.6.5.2. Financial performance
 - 7.6.5.3. Product benchmarking
 - 7.6.5.4. Recent developments
- 7.6.6. Glencore
 - 7.6.6.1. Participant's overview
 - 7.6.6.2. Financial performance
 - 7.6.6.3. Product benchmarking
 - 7.6.6.4. Recent developments
- 7.6.7. SQM
 - 7.6.7.1. Participant's overview
 - 7.6.7.2. Financial performance
 - 7.6.7.3. Product benchmarking
 - 7.6.7.4. Recent developments
- 7.6.8. Sumitomo Metal Mining
 - 7.6.8.1. Participant's overview
 - 7.6.8.2. Financial performance
 - 7.6.8.3. Product benchmarking
 - 7.6.8.4. Recent developments
- 7.6.9. Umicore
 - 7.6.9.1. Participant's overview
 - 7.6.9.2. Financial performance
 - 7.6.9.3. Product benchmarking
 - 7.6.9.4. Recent developments
- 7.6.10. Vale
 - 7.6.10.1. Participant's overview
 - 7.6.10.2. Financial performance
 - 7.6.10.3. Product benchmarking
 - 7.6.10.4. Recent developments

List Of Tables

LIST OF TABLES

Table 1 Battery metals market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 2 Battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD
Million)

Table 3 Battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 4 Battery metals market estimates and forecasts, by application, 2018 - 2030
(USD Million)

Table 5 Battery metals market estimates and forecasts, by application, 2018 - 2030
(Kilotons)

Table 6 Battery metals market estimates and forecasts, by region, 2018 - 2030 (USD
Million)

Table 7 Battery metals market estimates and forecasts, by region, 2018 - 2030
(Kilotons)

Table 8 North America battery metals market estimates and forecasts, by metal, 2018 -
2030 (USD Million)

Table 9 North America battery metals market estimates and forecasts, by metal, 2018 -
2030 (Kilotons)

Table 10 North America battery metals market estimates and forecasts, by application,
2018 - 2030 (USD Million)

Table 11 North America battery metals market estimates and forecasts, by application,
2018 - 2030 (Kilotons)

Table 12 U.S. battery metals market estimates and forecasts, by metal, 2018 - 2030
(USD Million)

Table 13 U.S. battery metals market estimates and forecasts, by metal, 2018 - 2030
(Kilotons)

Table 14 U.S. battery metals market estimates and forecasts, by application, 2018 -
2030 (USD Million)

Table 15 U.S. battery metals market estimates and forecasts, by application, 2018 -
2030 (Kilotons)

Table 16 Europe battery metals market estimates and forecasts, by metal, 2018 - 2030
(USD Million)

Table 17 Europe battery metals market estimates and forecasts, by metal, 2018 - 2030
(Kilotons)

Table 18 Europe battery metals market estimates and forecasts, by application, 2018 -

2030 (USD Million)

Table 19 Europe battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 20 Germany battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 21 Germany battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 22 Germany battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 23 Germany battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 24 Asia Pacific battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 25 Asia Pacific battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 26 Asia Pacific battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 27 Asia Pacific battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 28 China battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 29 China battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 30 China battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 31 China battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 32 Japan battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 33 Japan battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 34 Japan battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 35 Japan battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 36 South Korea battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 37 South Korea battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 38 South Korea battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 39 South Korea battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 40 Central & South America battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 41 Central & South America battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 42 Central & South America battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 43 Central & South America battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

Table 44 Middle East & Africa battery metals market estimates and forecasts, by metal, 2018 - 2030 (USD Million)

Table 45 Middle East & Africa battery metals market estimates and forecasts, by metal, 2018 - 2030 (Kilotons)

Table 46 Middle East & Africa battery metals market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 47 Middle East & Africa battery metals market estimates and forecasts, by application, 2018 - 2030 (Kilotons)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market Segmentation
- Fig. 2 Information Procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Formulation And Validation
- Fig. 5 Market Snapshot
- Fig. 6 Segmental Outlook - Product, Application
- Fig. 7 Competitive Outlook
- Fig. 8 Battery Metals Market Outlook, 2018 - 2030 (USD Million) (Kilotons)
- Fig. 9 Battery Metals Market - Value Chain Analysis
- Fig. 10 Battery Metals Market - Market Dynamics
- Fig. 11 Battery Metals Market - PORTER's Analysis
- Fig. 12 Battery Metals Market - PESTEL Analysis
- Fig. 13 Battery Metals Market Estimates & Forecasts, By Metal: Key Takeaways
- Fig. 14 Battery Metals Market Share, By Metal, 2023 & 2030
- Fig. 15 Lithium Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 16 Nickel Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 17 Cobalt Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 18 Other Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 19 Battery Metals Market Estimates & Forecasts, By Application: Key Takeaways
- Fig. 20 Battery Metals Market Share, By Application, 2023 & 2030
- Fig. 21 Battery Metals Market Estimates & Forecasts, in Starter, Lighting, and Ignition, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 22 Battery Metals Market Estimates & Forecasts, in Electric Vehicles, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 23 Battery Metals Market Estimates & Forecasts, in Electronic Devices, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 24 Battery Metals Market Estimates & Forecasts, in Stationary Battery Energy Storage, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 25 Battery Metals Market Estimates & Forecasts, in Other Applications, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 26 Battery Metals Market Revenue, By Region, 2023 & 2030 (USD Million)
- Fig. 27 North America Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 28 U.S. Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 29 Europe Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 30 Germany Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 31 Asia Pacific Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 32 China Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 33 Japan Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 34 South Korea Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 35 Central & South America Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 36 Middle East & Africa Battery Metals Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

Fig. 37 Key Company Categorization

Fig. 38 Company Market Positioning

Fig. 39 Strategy Mapping

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