

Energy Storage Materials Market Forecasts to 2034 – Global Analysis By Material Type (Cathode Materials, Anode Materials, Electrolyte Materials, Separator Materials and Other Material Types), Storage Technology, Chemistry, Application, Product Form and Geography

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Abstracts

According to Statistics MRC, the Global Energy Storage Materials Market is accounted for \$58.0 billion in 2026 and is expected to reach \$168.0 billion by 2034 growing at a CAGR of 14.2% during the forecast period. Energy storage materials are specialized materials used in technologies that store electrical or chemical energy for later use. These materials include battery electrodes, electrolytes, separators, supercapacitor components, and hydrogen storage materials that determine the performance, capacity, safety, and lifespan of energy storage systems. They are essential for applications in electric vehicles, renewable energy integration, consumer electronics, grid storage, and industrial power systems. Ongoing advancements in material science are improving energy density, charging speed, durability, and sustainability. Growing global demand for clean energy solutions is driving significant investment in energy storage materials research and development.

Market Dynamics:

Driver:

Growing electric vehicle adoption

The rapid transition toward vehicle electrification is significantly increasing demand for

advanced battery materials such as cathodes, anodes, electrolytes, and separators. Automakers are expanding electric vehicle production capacities to meet emission reduction targets and evolving consumer preferences. Energy storage materials play a critical role in improving battery performance, energy density, charging speed, and operational lifespan. Investments in battery manufacturing facilities are accelerating across major automotive markets. The expansion of EV charging infrastructure is further supporting battery demand. These factors are contributing substantially to market growth.

Restraint:

Supply chain dependency on critical minerals

Battery technologies rely on minerals such as lithium, cobalt, nickel, and graphite that are concentrated in limited geographic regions. Supply disruptions can affect material availability and manufacturing continuity across the battery value chain. Market participants face challenges in securing stable long-term sources of critical raw materials. Geopolitical factors and mining constraints can further increase procurement risks. The growing global demand for battery materials intensifies competition for resource access. These factors continue to create supply-side challenges for the industry.

Opportunity:

Next-generation battery material development

Researchers and manufacturers are focusing on advanced materials that can improve energy density, safety, charging efficiency, and battery durability. Innovations in solid-state batteries, silicon-based anodes, and high-performance cathode chemistries are attracting significant investment. These technologies have the potential to overcome limitations associated with current battery systems. Growing demand for longer driving ranges and enhanced energy storage performance is accelerating development efforts. Advanced materials can also contribute to reducing dependence on certain critical minerals. These developments are expected to generate significant market opportunities.

Threat:

Raw material price volatility

Fluctuations in the prices of lithium, cobalt, nickel, and other essential inputs can affect production costs throughout the battery supply chain. Sudden price increases may reduce profitability for manufacturers and increase battery costs for end users. Market uncertainty can also complicate long-term procurement and investment planning. Supply-demand imbalances often contribute to price instability in critical material markets. Manufacturers must continuously adjust sourcing strategies to manage cost pressures. These factors create ongoing challenges for industry participants.

Covid-19 Impact:

The COVID-19 pandemic temporarily disrupted the Energy Storage Materials market due to mining interruptions, logistics bottlenecks, and manufacturing slowdowns. Supply chain challenges affected the availability of key battery materials during the early stages of the crisis. Automotive production declines also temporarily reduced demand for battery components. However, the market recovered strongly as governments introduced green recovery initiatives and accelerated investments in clean energy technologies. Electric vehicle adoption continued to gain momentum despite short-term disruptions. Battery manufacturers expanded capacity to meet growing long-term demand.

The lithium-ion batteries segment is expected to be the largest during the forecast period

The lithium-ion batteries segment is expected to account for the largest market share during the forecast period as lithium-ion technology remains the preferred energy storage solution across electric vehicles, consumer electronics, and industrial applications. These batteries offer a strong combination of energy density, efficiency, cycle life, and commercial maturity. Extensive deployment across multiple industries continues to generate substantial demand for associated energy storage materials. Manufacturers have established large-scale production ecosystems centered around lithium-ion battery technologies. Ongoing improvements in battery chemistry are further enhancing performance capabilities. Broad industry acceptance supports sustained market dominance.

The grid storage segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the grid storage segment is predicted to witness the highest

growth rate due to increasing integration of renewable energy sources into power generation networks. Grid-scale storage systems help balance supply fluctuations associated with solar and wind energy production. Utilities are investing in large-scale energy storage projects to improve grid stability and reliability. Energy storage technologies support peak load management and enhance electricity distribution efficiency. Governments are also promoting grid modernization initiatives that include advanced storage infrastructure. The need for resilient and flexible energy systems continues to strengthen demand.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share owing to its dominant position in battery manufacturing and energy storage material production. The region hosts major battery producers, raw material processing facilities, and electric vehicle manufacturing hubs. Strong industrial ecosystems support large-scale production of battery components and materials. Government policies promoting clean transportation and renewable energy adoption further strengthen market demand. Significant investments in battery supply chain development continue to enhance regional competitiveness. Expanding domestic consumption of electric vehicles supports sustained growth.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by aggressive investments in battery gigafactories, renewable energy deployment, and electric mobility infrastructure. Countries across the region are strengthening domestic capabilities in battery manufacturing and critical material processing. Rapid urbanization and industrial development are increasing energy storage requirements. Strong policy support for energy transition initiatives is accelerating market expansion. Growing demand for electric vehicles and stationary storage systems is creating substantial opportunities for material suppliers. Continuous advancements in battery technology development further support regional growth.

Key players in the market

Some of the key players in Energy Storage Materials Market include BASF SE, Umicore SA, Johnson Matthey Plc, 3M Company, Mitsubishi Chemical Group Corporation, Toray Industries, Inc., Asahi Kasei Corporation, Sumitomo Chemical Co., Ltd., Tosoh Corporation, UBE Corporation, Merck KGaA, Cabot Corporation, Dow Inc., SABIC and

Solvay SA.

Key Developments:

In June 2026, 3M Company updated its long-term electronics product roadmap to prioritize its newly formulated bio-based flexible adhesive transfer tapes. The strategic pivot shifts product emphasis toward highly adaptive, ultra-thin tapes designed to hold conductive elements securely against curved surfaces, allowing consumer tech manufacturers to shrink component packaging while minimizing end-of-life electronic waste.

In January 2026, Mitsubishi Chemical Group Corporation executed a revised commercial strategy across its electronics division, prioritizing the integration of chemically recycled polyester (PET) matrices for flexible printing. By combining advanced machine learning optimization with historical experimentation data, the corporate strategy allows the firm to deliver high-tensile, low-carbon flexible substrates that meet tightening environmental regulatory frameworks without sacrificing thin-film purity.

Material Types Covered:

Cathode Materials

Anode Materials

Electrolyte Materials

Separator Materials

Other Material Types

Storage Technologies Covered:

Lithium-Ion Batteries

Sodium-Ion Batteries

Solid-State Batteries

Supercapacitors

Other Storage Technologies

Chemistries Covered:

Lithium Iron Phosphate

Lithium Nickel Manganese Cobalt Oxide

Lithium Cobalt Oxide

Lithium Manganese Oxide

Other Chemistries

Applications Covered:

Electric Vehicles

Grid Storage

Consumer Electronics

Industrial Energy Storage

Other Applications

Product Forms Covered:

Powders

Films

Sheets

Coatings

Other Product Forms

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL ENERGY STORAGE MATERIALS MARKET, BY MATERIAL TYPE

- 5.1 Cathode Materials
- 5.2 Anode Materials
- 5.3 Electrolyte Materials
- 5.4 Separator Materials
- 5.5 Other Material Types

6 GLOBAL ENERGY STORAGE MATERIALS MARKET, BY STORAGE TECHNOLOGY

- 6.1 Lithium-Ion Batteries
- 6.2 Sodium-Ion Batteries
- 6.3 Solid-State Batteries
- 6.4 Supercapacitors
- 6.5 Other Storage Technologies

7 GLOBAL ENERGY STORAGE MATERIALS MARKET, BY CHEMISTRY

- 7.1 Lithium Iron Phosphate
- 7.2 Lithium Nickel Manganese Cobalt Oxide
- 7.3 Lithium Cobalt Oxide
- 7.4 Lithium Manganese Oxide
- 7.5 Other Chemistries

8 GLOBAL ENERGY STORAGE MATERIALS MARKET, BY APPLICATION

- 8.1 Electric Vehicles
- 8.2 Grid Storage
- 8.3 Consumer Electronics
- 8.4 Industrial Energy Storage
- 8.5 Other Applications

9 GLOBAL ENERGY STORAGE MATERIALS MARKET, BY PRODUCT FORM

- 9.1 Powders
- 9.2 Films
- 9.3 Sheets
- 9.4 Coatings
- 9.5 Other Product Forms

10 GLOBAL ENERGY STORAGE MATERIALS MARKET, BY GEOGRAPHY

- 10.1 North America
 - 10.1.1 United States
 - 10.1.2 Canada
 - 10.1.3 Mexico
- 10.2 Europe
 - 10.2.1 United Kingdom
 - 10.2.2 Germany
 - 10.2.3 France
 - 10.2.4 Italy
 - 10.2.5 Spain
 - 10.2.6 Netherlands
 - 10.2.7 Belgium
 - 10.2.8 Sweden
 - 10.2.9 Switzerland
 - 10.2.10 Poland
 - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
 - 10.3.1 China
 - 10.3.2 Japan
 - 10.3.3 India
 - 10.3.4 South Korea
 - 10.3.5 Australia
 - 10.3.6 Indonesia
 - 10.3.7 Thailand
 - 10.3.8 Malaysia
 - 10.3.9 Singapore
 - 10.3.10 Vietnam
 - 10.3.11 Rest of Asia Pacific
- 10.4 South America
 - 10.4.1 Brazil
 - 10.4.2 Argentina

- 10.4.3 Colombia
- 10.4.4 Chile
- 10.4.5 Peru
- 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
 - 10.5.1 Middle East
 - 10.5.1.1 Saudi Arabia
 - 10.5.1.2 United Arab Emirates
 - 10.5.1.3 Qatar
 - 10.5.1.4 Israel
 - 10.5.1.5 Rest of Middle East
 - 10.5.2 Africa
 - 10.5.2.1 South Africa
 - 10.5.2.2 Egypt
 - 10.5.2.3 Morocco
 - 10.5.2.4 Rest of Africa

11 STRATEGIC MARKET INTELLIGENCE

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

13 COMPANY PROFILES

- 13.1 BASF SE
- 13.2 Umicore SA
- 13.3 Johnson Matthey Plc
- 13.4 3M Company
- 13.5 Mitsubishi Chemical Group Corporation

- 13.6 Toray Industries, Inc.
- 13.7 Asahi Kasei Corporation
- 13.8 Sumitomo Chemical Co., Ltd.
- 13.9 Tosoh Corporation
- 13.10 UBE Corporation
- 13.11 Merck KGaA
- 13.12 Cabot Corporation
- 13.13 Dow Inc.
- 13.14 SABIC
- 13.15 Solvay SA

List Of Tables

LIST OF TABLES

Table 1 Global Energy Storage Materials Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Energy Storage Materials Market, By Material Type (2023–2034) (\$MN)

Table 3 Global Energy Storage Materials Market, By Cathode Materials (2023–2034) (\$MN)

Table 4 Global Energy Storage Materials Market, By Anode Materials (2023–2034) (\$MN)

Table 5 Global Energy Storage Materials Market, By Electrolyte Materials (2023–2034) (\$MN)

Table 6 Global Energy Storage Materials Market, By Separator Materials (2023–2034) (\$MN)

Table 7 Global Energy Storage Materials Market, By Other Material Types (2023–2034) (\$MN)

Table 8 Global Energy Storage Materials Market, By Storage Technology (2023–2034) (\$MN)

Table 9 Global Energy Storage Materials Market, By Lithium-Ion Batteries (2023–2034) (\$MN)

Table 10 Global Energy Storage Materials Market, By Sodium-Ion Batteries (2023–2034) (\$MN)

Table 11 Global Energy Storage Materials Market, By Solid-State Batteries (2023–2034) (\$MN)

Table 12 Global Energy Storage Materials Market, By Supercapacitors (2023–2034) (\$MN)

Table 13 Global Energy Storage Materials Market, By Other Storage Technologies (2023–2034) (\$MN)

Table 14 Global Energy Storage Materials Market, By Chemistry (2023–2034) (\$MN)

Table 15 Global Energy Storage Materials Market, By Lithium Iron Phosphate (2023–2034) (\$MN)

Table 16 Global Energy Storage Materials Market, By Lithium Nickel Manganese Cobalt Oxide (2023–2034) (\$MN)

Table 17 Global Energy Storage Materials Market, By Lithium Cobalt Oxide (2023–2034) (\$MN)

Table 18 Global Energy Storage Materials Market, By Lithium Manganese Oxide (2023–2034) (\$MN)

Table 19 Global Energy Storage Materials Market, By Other Chemistries (2023–2034)

(\$MN)

Table 20 Global Energy Storage Materials Market, By Application (2023–2034) (\$MN)

Table 21 Global Energy Storage Materials Market, By Electric Vehicles (2023–2034) (\$MN)

Table 22 Global Energy Storage Materials Market, By Grid Storage (2023–2034) (\$MN)

Table 23 Global Energy Storage Materials Market, By Consumer Electronics (2023–2034) (\$MN)

Table 24 Global Energy Storage Materials Market, By Industrial Energy Storage (2023–2034) (\$MN)

Table 25 Global Energy Storage Materials Market, By Other Applications (2023–2034) (\$MN)

Table 26 Global Energy Storage Materials Market, By Product Form (2023–2034) (\$MN)

Table 27 Global Energy Storage Materials Market, By Powders (2023–2034) (\$MN)

Table 28 Global Energy Storage Materials Market, By Films (2023–2034) (\$MN)

Table 29 Global Energy Storage Materials Market, By Sheets (2023–2034) (\$MN)

Table 30 Global Energy Storage Materials Market, By Coatings (2023–2034) (\$MN)

Table 31 Global Energy Storage Materials Market, By Other Product Forms (2023–2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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