

# **Global Next Generation Batteries Market Size study & Forecast, by Type (Lithium-Sulfur Batteries and Solid-State Batteries) by Application (Electric Vehicles (EVs) and Consumer Electronics) and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G3E606EDF7ABEN.html>

Date: December 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: G3E606EDF7ABEN

## **Abstracts**

The Global Next Generation Batteries Market is valued at approximately USD 1.91 billion in 2024 and is anticipated to grow with a CAGR of more than 8.40% throughout the forecast period of 2025-2035. Next generation batteries refer to a new class of advanced energy storage technologies engineered to deliver superior performance, enhanced safety, longer cycle life, and higher power densities when compared to traditional lithium-ion systems. These evolving battery chemistries are designed to unlock the next wave of electrification, supporting industries that increasingly rely on compact, lightweight, and high-capacity energy solutions. Market expansion is fueled by the dramatic rise in electric mobility, accelerating investments in sustainable energy systems, and mounting regulatory emphasis on decarbonization. As global industries push to electrify transportation and optimize portable electronic products, demand for long-lasting and robust battery platforms continues to soar.

The surge in electric vehicle adoption worldwide has catalyzed a significant increase in demand for next generation batteries. These advanced storage systems are pivotal in strengthening driving ranges, improving charging efficiency, and reducing vulnerabilities associated with overheating and degradation. As auto manufacturers compete to differentiate their EV portfolios, investments in solid-state platforms and lithium-sulfur chemistries have surged, propelling innovation across the entire supply chain. Moreover, consumer electronics manufacturers are actively upgrading devices to meet consumers' expectations for thinner, lighter, and longer-lasting products. Despite these strong drivers, the market faces challenges such as high production costs and complex

manufacturing requirements, which temporarily temper growth. Over the forecast period of 2025-2035, however, advancements in material science and large-scale production techniques are expected to drive substantial cost reductions and unlock sizable opportunities across emerging applications.

**The detailed segments and sub-segments included in the report are:**

By Type:

Lithium-Sulfur Batteries

Solid-State Batteries

By Application:

Electric Vehicles (EVs)

Consumer Electronics

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Electric Vehicles (EVs) are expected to dominate the market. This segment is projected to secure the lion's share due to its unprecedented demand for advanced, safe, and energy-dense battery technologies that can support improved driving range and enhanced performance outputs. The global push toward full-scale transportation electrification, supported by government incentives and stringent emissions mandates, is compelling automakers to partner with next generation battery developers to strengthen battery durability and optimize thermal stability. While EV applications remain the backbone of demand, the consumer electronics segment is emerging as one of the fastest-growing due to constant device innovation and the rising need for ultra-portable power sources.

By type, solid-state batteries currently lead in overall revenue contribution. Their dominance stems from their exceptional safety profile, higher energy density, and longer lifecycle performance, making them a favored choice for premium energy storage applications used in EVs and critical electronics. Meanwhile, lithium-sulfur batteries are positioned as the fastest-growing segment backed by ongoing R&D breakthroughs, their lightweight architecture, and the potential to drastically increase energy density at a lower cost. Solid-state batteries retain strong market control today, but lithium-sulfur chemistries are rapidly gaining momentum and may reshape the competitive landscape in the long run.

Across regional markets, North America dominated in 2025 due to its strong EV ecosystem, large-scale investments in gigafactories, and robust innovation pipelines supported by both private-sector R&D and federal clean energy initiatives. Europe also remains a major contributor driven by aggressive decarbonization agendas, stringent environmental policies, and widespread adoption of electric mobility technologies. Asia Pacific, however, is slated to witness the fastest growth over the forecast period. Rapid industrialization, expanding EV production in China, and technological leadership in advanced electronics manufacturing position the region as a powerhouse of next generation battery demand. Government-backed investments in clean energy storage, coupled with rising consumer electronics consumption, further strengthen Asia Pacific's trajectory.

**Major market players included in this report are:**

QuantumScape

Sion Power Corporation

Panasonic Holdings Corporation

Samsung SDI Co., Ltd.

CATL

Solid Power, Inc.

LG Energy Solution

Toyota Motor Corporation

Ampricus Technologies

GS Yuasa Corporation

Excellatron

Enovix Corporation

StoreDot

BYD Company Ltd.

Hitachi Chemical Co. Ltd.

#### Global Next Generation Batteries Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle

## East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries included in the study. The report also provides detailed information about crucial factors such as driving forces and challenges that will shape future market growth. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with an in-depth analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

### **Key Takeaways:**

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL NEXT GENERATION BATTERIES MARKET REPORT SCOPE & METHODOLOGY**

- 1.1. Research Objective
- 1.2. Research Methodology
  - 1.2.1. Forecast Model
  - 1.2.2. Desk Research
  - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
  - 1.4.1. Market Definition
  - 1.4.2. Market Segmentation
- 1.5. Research Assumption
  - 1.5.1. Inclusion & Exclusion
  - 1.5.2. Limitations
  - 1.5.3. Years Considered for the Study

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

### **CHAPTER 3. GLOBAL NEXT GENERATION BATTERIES MARKET FORCES ANALYSIS**

- 3.1. Market Forces Shaping The Global Next Generation Batteries Market (2024-2035)
- 3.2. Drivers
  - 3.2.1. dramatic rise in electric mobility
  - 3.2.2. accelerating investments in sustainable energy systems
- 3.3. Restraints
  - 3.3.1. high production costs and complex manufacturing requirements
- 3.4. Opportunities
  - 3.4.1. mounting regulatory emphasis on decarbonization

### **CHAPTER 4. GLOBAL NEXT GENERATION BATTERIES INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Forces Model
  - 4.1.1. Bargaining Power of Buyer
  - 4.1.2. Bargaining Power of Supplier
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL NEXT GENERATION BATTERIES MARKET SIZE & FORECASTS BY TYPE 2025-2035**

- 5.1. Market Overview
- 5.2. Global Next Generation Batteries Market Performance - Potential Analysis (2025)
- 5.3. Lithium-Sulfur Batteries
  - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Solid-State Batteries
  - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.4.2. Market size analysis, by region, 2025-2035

## **CHAPTER 6. GLOBAL NEXT GENERATION BATTERIES MARKET SIZE & FORECASTS BY APPLICATION 2025–2035**

- 6.1. Market Overview
- 6.2. Global Next Generation Batteries Market Performance - Potential Analysis (2025)
- 6.3. Electric Vehicles (EVs)

- 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
- 6.3.2. Market size analysis, by region, 2025-2035
- 6.4. Consumer Electronics
  - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 6.4.2. Market size analysis, by region, 2025-2035

## **CHAPTER 7. GLOBAL NEXT GENERATION BATTERIES MARKET SIZE & FORECASTS BY REGION 2025–2035**

- 7.1. Growth Next Generation Batteries Market, Regional Market Snapshot
- 7.2. Top Leading & Emerging Countries
- 7.3. North America Next Generation Batteries Market
  - 7.3.1. U.S. Next Generation Batteries Market
    - 7.3.1.1. Type breakdown size & forecasts, 2025-2035
    - 7.3.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.3.2. Canada Next Generation Batteries Market
    - 7.3.2.1. Type breakdown size & forecasts, 2025-2035
    - 7.3.2.2. Application breakdown size & forecasts, 2025-2035
- 7.4. Europe Next Generation Batteries Market
  - 7.4.1. UK Next Generation Batteries Market
    - 7.4.1.1. Type breakdown size & forecasts, 2025-2035
    - 7.4.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.4.2. Germany Next Generation Batteries Market
    - 7.4.2.1. Type breakdown size & forecasts, 2025-2035
    - 7.4.2.2. Application breakdown size & forecasts, 2025-2035
  - 7.4.3. France Next Generation Batteries Market
    - 7.4.3.1. Type breakdown size & forecasts, 2025-2035
    - 7.4.3.2. Application breakdown size & forecasts, 2025-2035
  - 7.4.4. Spain Next Generation Batteries Market
    - 7.4.4.1. Type breakdown size & forecasts, 2025-2035
    - 7.4.4.2. Application breakdown size & forecasts, 2025-2035
  - 7.4.5. Italy Next Generation Batteries Market
    - 7.4.5.1. Type breakdown size & forecasts, 2025-2035
    - 7.4.5.2. Application breakdown size & forecasts, 2025-2035
  - 7.4.6. Rest of Europe Next Generation Batteries Market
    - 7.4.6.1. Type breakdown size & forecasts, 2025-2035
    - 7.4.6.2. Application breakdown size & forecasts, 2025-2035
- 7.5. Asia Pacific Next Generation Batteries Market
  - 7.5.1. China Next Generation Batteries Market

- 7.5.1.1. Type breakdown size & forecasts, 2025-2035
- 7.5.1.2. Application breakdown size & forecasts, 2025-2035
- 7.5.2. India Next Generation Batteries Market
  - 7.5.2.1. Type breakdown size & forecasts, 2025-2035
  - 7.5.2.2. Application breakdown size & forecasts, 2025-2035
- 7.5.3. Japan Next Generation Batteries Market
  - 7.5.3.1. Type breakdown size & forecasts, 2025-2035
  - 7.5.3.2. Application breakdown size & forecasts, 2025-2035
- 7.5.4. Australia Next Generation Batteries Market
  - 7.5.4.1. Type breakdown size & forecasts, 2025-2035
  - 7.5.4.2. Application breakdown size & forecasts, 2025-2035
- 7.5.5. South Korea Next Generation Batteries Market
  - 7.5.5.1. Type breakdown size & forecasts, 2025-2035
  - 7.5.5.2. Application breakdown size & forecasts, 2025-2035
- 7.5.6. Rest of APAC Next Generation Batteries Market
  - 7.5.6.1. Type breakdown size & forecasts, 2025-2035
  - 7.5.6.2. Application breakdown size & forecasts, 2025-2035
- 7.6. Latin America Next Generation Batteries Market
  - 7.6.1. Brazil Next Generation Batteries Market
    - 7.6.1.1. Type breakdown size & forecasts, 2025-2035
    - 7.6.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.6.2. Mexico Next Generation Batteries Market
    - 7.6.2.1. Type breakdown size & forecasts, 2025-2035
    - 7.6.2.2. Application breakdown size & forecasts, 2025-2035
- 7.7. Middle East and Africa Next Generation Batteries Market
  - 7.7.1. UAE Next Generation Batteries Market
    - 7.7.1.1. Type breakdown size & forecasts, 2025-2035
    - 7.7.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.7.2. Saudi Arabia (KSA) Next Generation Batteries Market
    - 7.7.2.1. Type breakdown size & forecasts, 2025-2035
    - 7.7.2.2. Application breakdown size & forecasts, 2025-2035
  - 7.7.3. South Africa Next Generation Batteries Market
    - 7.7.3.1. Type breakdown size & forecasts, 2025-2035
    - 7.7.3.2. Application breakdown size & forecasts, 2025-2035

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Top Market Strategies
- 8.2. QuantumScope

- 8.2.1. Company Overview
- 8.2.2. Key Executives
- 8.2.3. Company Snapshot
- 8.2.4. Financial Performance (Subject to Data Availability)
- 8.2.5. Product/Services Port
- 8.2.6. Recent Development
- 8.2.7. Market Strategies
- 8.2.8. SWOT Analysis
- 8.3. Sion Power Corporation
- 8.4. Panasonic Holdings Corporation
- 8.5. Samsung SDI Co., Ltd.
- 8.6. CATL
- 8.7. Solid Power, Inc.
- 8.8. LG Energy Solution
- 8.9. Toyota Motor Corporation
- 8.10. Amprius Technologies
- 8.11. GS Yuasa Corporation
- 8.12. Excellatron
- 8.13. Enovix Corporation
- 8.14. StoreDot
- 8.15. BYD Company Ltd.
- 8.16. Hitachi Chemical Co. Ltd.

## List Of Tables

### LIST OF TABLES

Table 1. Global Semiconductor Manufacturing Equipment Market, Report Scope

Table 2. Global Semiconductor Manufacturing Equipment Market Estimates & Forecasts By Region 2024–2035

Table 3. Global Semiconductor Manufacturing Equipment Market Estimates & Forecasts By Segment 2024–2035

Table 4. Global Semiconductor Manufacturing Equipment Market Estimates & Forecasts By Segment 2024–2035

Table 5. Global Semiconductor Manufacturing Equipment Market Estimates & Forecasts By Segment 2024–2035

Table 6. Global Semiconductor Manufacturing Equipment Market Estimates & Forecasts By Segment 2024–2035

Table 7. Global Semiconductor Manufacturing Equipment Market Estimates & Forecasts By Segment 2024–2035

Table 8. U.S. Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 9. Canada Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 10. UK Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 11. Germany Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 12. France Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 13. Spain Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 14. Italy Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 15. Rest Of Europe Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 16. China Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 17. India Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 18. Japan Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 19. Australia Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

Table 20. South Korea Semiconductor Manufacturing Equipment Market Estimates & Forecasts, 2024–2035

.....

## List Of Figures

### LIST OF FIGURES

Fig 1. Global Semiconductor Manufacturing Equipment Market, Research Methodology

Fig 2. Global Semiconductor Manufacturing Equipment Market, Market Estimation Techniques

Fig 3. Global Market Size Estimates & Forecast Methods

Fig 4. Global Semiconductor Manufacturing Equipment Market, Key Trends 2025

Fig 5. Global Semiconductor Manufacturing Equipment Market, Growth Prospects 2024–2035

Fig 6. Global Semiconductor Manufacturing Equipment Market, Porter’s Five Forces Model

Fig 7. Global Semiconductor Manufacturing Equipment Market, Pestel Analysis

Fig 8. Global Semiconductor Manufacturing Equipment Market, Value Chain Analysis

Fig 9. Semiconductor Manufacturing Equipment Market By Application, 2025 & 2035

Fig 10. Semiconductor Manufacturing Equipment Market By Segment, 2025 & 2035

Fig 11. Semiconductor Manufacturing Equipment Market By Segment, 2025 & 2035

Fig 12. Semiconductor Manufacturing Equipment Market By Segment, 2025 & 2035

Fig 13. Semiconductor Manufacturing Equipment Market By Segment, 2025 & 2035

Fig 14. North America Semiconductor Manufacturing Equipment Market, 2025 & 2035

Fig 15. Europe Semiconductor Manufacturing Equipment Market, 2025 & 2035

Fig 16. Asia Pacific Semiconductor Manufacturing Equipment Market, 2025 & 2035

Fig 17. Latin America Semiconductor Manufacturing Equipment Market, 2025 & 2035

Fig 18. Middle East & Africa Semiconductor Manufacturing Equipment Market, 2025 & 2035

Fig 19. Global Semiconductor Manufacturing Equipment Market, Company Market Share Analysis (2025)

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