

# Global Anode-free Batteries Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Anode-free Batteries market size is expected to reach \$ 1932 million by 2032, rising at a market growth of 36.9% CAGR during the forecast period (2026-2032).

In 2025, global anode-free battery shipments reached about 0.9 GWh, versus global capacity of 1.9 GWh annually, with average unit price USD 230/KWh, and average gross margins 10%. Anode-free batteries are a next-generation lithium-metal battery architecture in which the cell is assembled without a pre-installed anode material; instead, lithium plates directly onto a bare current collector (typically copper) during the first charge, forming the anode in situ. This design eliminates the graphite or silicon anode, boosting gravimetric and volumetric energy density while simplifying cell construction, but it places extremely high demands on electrolyte stability, interfacial control, and dendrite suppression. The supply chain therefore shifts away from traditional anode materials toward high-purity copper foil, advanced electrolytes (often highly fluorinated liquid electrolytes or solid-state electrolytes), lithium metal sources (used at the cathode side or via excess lithium), engineered separators, and protective interfacial layers or coatings. Upstream inputs include lithium salts, specialty solvents, fluorochemicals, ceramic or polymer solid electrolytes, and precision copper processing; midstream players focus on electrolyte formulation, separator engineering, and cell manufacturing with tight moisture control; downstream adoption is concentrated in EVs, aerospace, and high-end energy storage, where energy density gains justify the higher materials cost and manufacturing complexity.

This report studies the global Anode-free Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Anode-free

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 Anode-free Batteries that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Anode-free Batteries total production and demand, 2021-2032, (KWh)

Global Anode-free Batteries total production value, 2021-2032, (USD Million)

Global Anode-free Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Anode-free Batteries consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Anode-free Batteries domestic production, consumption, key domestic manufacturers and share

Global Anode-free Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Anode-free Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Anode-free Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Anode-free 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 QuantumScape, Our Next Energy, BEI Corp, Panasonic Energy, LG Energy Solution, CATL, Samsung SDI, Solid Power, Factorial Energy, Enovix, 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 Anode-free Batteries market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) 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 Anode-free Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Anode-free Batteries Market, Segmentation by Type:

Liquid Electrolyte Anode-Free (LE-AFB)

Solid-State Anode-Free (SS-AFB)

#### Global Anode-free Batteries Market, Segmentation by Cathode Chemistry:

NMC-based (Nickel Manganese Cobalt)

NCA-based (Nickel Cobalt Aluminum)

LFP-based (Lithium Iron Phosphate)

#### Global Anode-free Batteries Market, Segmentation by Application:

Electric Vehicles

UAV Systems

Consumer Electronics

Others

#### Companies Profiled:

QuantumScape

Our Next Energy

BEI Corp

Panasonic Energy

LG Energy Solution

CATL

Samsung SDI

Solid Power

Factorial Energy

Enovix

#### Key Questions Answered:

1. How big is the global Anode-free Batteries market?
2. What is the demand of the global Anode-free Batteries market?
3. What is the year over year growth of the global Anode-free Batteries market?
4. What is the production and production value of the global Anode-free Batteries market?
5. Who are the key producers in the global Anode-free Batteries market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Anode-free Batteries Production Value by Manufacturer (2021-2026)

- 3.2 World Anode-free Batteries Production by Manufacturer (2021-2026)
- 3.3 World Anode-free Batteries Average Price by Manufacturer (2021-2026)
- 3.4 Anode-free Batteries Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Anode-free Batteries Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Anode-free Batteries in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Anode-free Batteries in 2025
- 3.6 Anode-free Batteries Market: Overall Company Footprint Analysis
  - 3.6.1 Anode-free Batteries Market: Region Footprint
  - 3.6.2 Anode-free Batteries Market: Company Product Type Footprint
  - 3.6.3 Anode-free 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: Anode-free Batteries Production Value Comparison
  - 4.1.1 United States VS China: Anode-free Batteries Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Anode-free Batteries Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Anode-free Batteries Production Comparison
  - 4.2.1 United States VS China: Anode-free Batteries Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Anode-free Batteries Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Anode-free Batteries Consumption Comparison
  - 4.3.1 United States VS China: Anode-free Batteries Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Anode-free Batteries Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Anode-free Batteries Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Anode-free Batteries Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Anode-free Batteries Production Value (2021-2026)

4.4.3 United States Based Manufacturers Anode-free Batteries Production (2021-2026)

4.5 China Based Anode-free Batteries Manufacturers and Market Share

4.5.1 China Based Anode-free Batteries Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Anode-free Batteries Production Value (2021-2026)

4.5.3 China Based Manufacturers Anode-free Batteries Production (2021-2026)

4.6 Rest of World Based Anode-free Batteries Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Anode-free Batteries Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Anode-free Batteries Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Anode-free Batteries Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Anode-free Batteries Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Liquid Electrolyte Anode-Free (LE-AFB)

5.2.2 Solid-State Anode-Free (SS-AFB)

5.3 Market Segment by Type

5.3.1 World Anode-free Batteries Production by Type (2021-2032)

5.3.2 World Anode-free Batteries Production Value by Type (2021-2032)

5.3.3 World Anode-free Batteries Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY CATHODE CHEMISTRY**

6.1 World Anode-free Batteries Market Size Overview by Cathode Chemistry: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Cathode Chemistry

6.2.1 NMC-based (Nickel Manganese Cobalt)

6.2.2 NCA-based (Nickel Cobalt Aluminum)

6.2.3 LFP-based (Lithium Iron Phosphate)

6.3 Market Segment by Cathode Chemistry

6.3.1 World Anode-free Batteries Production by Cathode Chemistry (2021-2032)

- 6.3.2 World Anode-free Batteries Production Value by Cathode Chemistry (2021-2032)
- 6.3.3 World Anode-free Batteries Average Price by Cathode Chemistry (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

- 7.1 World Anode-free Batteries Market Size Overview by Application: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Application
  - 7.2.1 Electric Vehicles
  - 7.2.2 UAV Systems
  - 7.2.3 Consumer Electronics
  - 7.2.4 Others
- 7.3 Market Segment by Application
  - 7.3.1 World Anode-free Batteries Production by Application (2021-2032)
  - 7.3.2 World Anode-free Batteries Production Value by Application (2021-2032)
  - 7.3.3 World Anode-free Batteries Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

- 8.1 QuantumScape
  - 8.1.1 QuantumScape Details
  - 8.1.2 QuantumScape Major Business
  - 8.1.3 QuantumScape Anode-free Batteries Product and Services
  - 8.1.4 QuantumScape Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.1.5 QuantumScape Recent Developments/Updates
  - 8.1.6 QuantumScape Competitive Strengths & Weaknesses
- 8.2 Our Next Energy
  - 8.2.1 Our Next Energy Details
  - 8.2.2 Our Next Energy Major Business
  - 8.2.3 Our Next Energy Anode-free Batteries Product and Services
  - 8.2.4 Our Next Energy Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.2.5 Our Next Energy Recent Developments/Updates
  - 8.2.6 Our Next Energy Competitive Strengths & Weaknesses
- 8.3 BEI Corp
  - 8.3.1 BEI Corp Details
  - 8.3.2 BEI Corp Major Business
  - 8.3.3 BEI Corp Anode-free Batteries Product and Services

8.3.4 BEI Corp Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 BEI Corp Recent Developments/Updates

8.3.6 BEI Corp Competitive Strengths & Weaknesses

8.4 Panasonic Energy

8.4.1 Panasonic Energy Details

8.4.2 Panasonic Energy Major Business

8.4.3 Panasonic Energy Anode-free Batteries Product and Services

8.4.4 Panasonic Energy Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Panasonic Energy Recent Developments/Updates

8.4.6 Panasonic Energy Competitive Strengths & Weaknesses

8.5 LG Energy Solution

8.5.1 LG Energy Solution Details

8.5.2 LG Energy Solution Major Business

8.5.3 LG Energy Solution Anode-free Batteries Product and Services

8.5.4 LG Energy Solution Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 LG Energy Solution Recent Developments/Updates

8.5.6 LG Energy Solution Competitive Strengths & Weaknesses

8.6 CATL

8.6.1 CATL Details

8.6.2 CATL Major Business

8.6.3 CATL Anode-free Batteries Product and Services

8.6.4 CATL Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 CATL Recent Developments/Updates

8.6.6 CATL Competitive Strengths & Weaknesses

8.7 Samsung SDI

8.7.1 Samsung SDI Details

8.7.2 Samsung SDI Major Business

8.7.3 Samsung SDI Anode-free Batteries Product and Services

8.7.4 Samsung SDI Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Samsung SDI Recent Developments/Updates

8.7.6 Samsung SDI Competitive Strengths & Weaknesses

8.8 Solid Power

8.8.1 Solid Power Details

8.8.2 Solid Power Major Business

- 8.8.3 Solid Power Anode-free Batteries Product and Services
- 8.8.4 Solid Power Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.8.5 Solid Power Recent Developments/Updates
- 8.8.6 Solid Power Competitive Strengths & Weaknesses
- 8.9 Factorial Energy
  - 8.9.1 Factorial Energy Details
  - 8.9.2 Factorial Energy Major Business
  - 8.9.3 Factorial Energy Anode-free Batteries Product and Services
  - 8.9.4 Factorial Energy Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.9.5 Factorial Energy Recent Developments/Updates
  - 8.9.6 Factorial Energy Competitive Strengths & Weaknesses
- 8.10 Enovix
  - 8.10.1 Enovix Details
  - 8.10.2 Enovix Major Business
  - 8.10.3 Enovix Anode-free Batteries Product and Services
  - 8.10.4 Enovix Anode-free Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.10.5 Enovix Recent Developments/Updates
  - 8.10.6 Enovix Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 Anode-free Batteries Industry Chain
- 9.2 Anode-free Batteries Upstream Analysis
  - 9.2.1 Anode-free Batteries Core Raw Materials
  - 9.2.2 Main Manufacturers of Anode-free Batteries Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Anode-free Batteries Production Mode
- 9.6 Anode-free Batteries Procurement Model
- 9.7 Anode-free Batteries Industry Sales Model and Sales Channels
  - 9.7.1 Anode-free Batteries Sales Model
  - 9.7.2 Anode-free Batteries Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

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

Table 2. World Anode-free Batteries Production Value by Region (2021-2026) & (USD Million)

Table 3. World Anode-free Batteries Production Value by Region (2027-2032) & (USD Million)

Table 4. World Anode-free Batteries Production Value Market Share by Region (2021-2026)

Table 5. World Anode-free Batteries Production Value Market Share by Region (2027-2032)

Table 6. World Anode-free Batteries Production by Region (2021-2026) & (KWh)

Table 7. World Anode-free Batteries Production by Region (2027-2032) & (KWh)

Table 8. World Anode-free Batteries Production Market Share by Region (2021-2026)

Table 9. World Anode-free Batteries Production Market Share by Region (2027-2032)

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

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

Table 12. Anode-free Batteries Major Market Trends

Table 13. World Anode-free Batteries Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KWh)

Table 14. World Anode-free Batteries Consumption by Region (2021-2026) & (KWh)

Table 15. World Anode-free Batteries Consumption Forecast by Region (2027-2032) & (KWh)

Table 16. World Anode-free Batteries Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Anode-free Batteries Producers in 2025

Table 18. World Anode-free Batteries Production by Manufacturer (2021-2026) & (KWh)

Table 19. Production Market Share of Key Anode-free Batteries Producers in 2025

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

Table 21. Global Anode-free Batteries Company Evaluation Quadrant

Table 22. World Anode-free Batteries Industry Rank of Major Manufacturers, Based on Production Value in 2025

- Table 23. Head Office and Anode-free Batteries Production Site of Key Manufacturer
- Table 24. Anode-free Batteries Market: Company Product Type Footprint
- Table 25. Anode-free Batteries Market: Company Product Application Footprint
- Table 26. Anode-free Batteries Competitive Factors
- Table 27. Anode-free Batteries New Entrant and Capacity Expansion Plans
- Table 28. Anode-free Batteries Mergers & Acquisitions Activity
- Table 29. United States VS China Anode-free Batteries Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Anode-free Batteries Production Comparison, (2021 & 2025 & 2032) & (KWh)
- Table 31. United States VS China Anode-free Batteries Consumption Comparison, (2021 & 2025 & 2032) & (KWh)
- Table 32. United States Based Anode-free Batteries Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Anode-free Batteries Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Anode-free Batteries Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Anode-free Batteries Production (2021-2026) & (KWh)
- Table 36. United States Based Manufacturers Anode-free Batteries Production Market Share (2021-2026)
- Table 37. China Based Anode-free Batteries Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Anode-free Batteries Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Anode-free Batteries Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Anode-free Batteries Production, (2021-2026) & (KWh)
- Table 41. China Based Manufacturers Anode-free Batteries Production Market Share (2021-2026)
- Table 42. Rest of World Based Anode-free Batteries Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Anode-free Batteries Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Anode-free Batteries Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Anode-free Batteries Production,

(2021-2026) & (KWh)

Table 46. Rest of World Based Manufacturers Anode-free Batteries Production Market Share (2021-2026)

Table 47. World Anode-free Batteries Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Anode-free Batteries Production by Type (2021-2026) & (KWh)

Table 49. World Anode-free Batteries Production by Type (2027-2032) & (KWh)

Table 50. World Anode-free Batteries Production Value by Type (2021-2026) & (USD Million)

Table 51. World Anode-free Batteries Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World Anode-free Batteries Production Value by Cathode Chemistry, (USD Million), 2021 & 2025 & 2032

Table 55. World Anode-free Batteries Production by Cathode Chemistry (2021-2026) & (KWh)

Table 56. World Anode-free Batteries Production by Cathode Chemistry (2027-2032) & (KWh)

Table 57. World Anode-free Batteries Production Value by Cathode Chemistry (2021-2026) & (USD Million)

Table 58. World Anode-free Batteries Production Value by Cathode Chemistry (2027-2032) & (USD Million)

Table 59. World Anode-free Batteries Average Price by Cathode Chemistry (2021-2026) & (US\$/KWh)

Table 60. World Anode-free Batteries Average Price by Cathode Chemistry (2027-2032) & (US\$/KWh)

Table 61. World Anode-free Batteries Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Anode-free Batteries Production by Application (2021-2026) & (KWh)

Table 63. World Anode-free Batteries Production by Application (2027-2032) & (KWh)

Table 64. World Anode-free Batteries Production Value by Application (2021-2026) & (USD Million)

Table 65. World Anode-free Batteries Production Value by Application (2027-2032) & (USD Million)

Table 66. World Anode-free Batteries Average Price by Application (2021-2026) & (US\$/KWh)

Table 67. World Anode-free Batteries Average Price by Application (2027-2032) & (US\$/KWh)

- Table 68. QuantumScape Basic Information, Manufacturing Base and Competitors
- Table 69. QuantumScape Major Business
- Table 70. QuantumScape Anode-free Batteries Product and Services
- Table 71. QuantumScape Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 72. QuantumScape Recent Developments/Updates
- Table 73. QuantumScape Competitive Strengths & Weaknesses
- Table 74. Our Next Energy Basic Information, Manufacturing Base and Competitors
- Table 75. Our Next Energy Major Business
- Table 76. Our Next Energy Anode-free Batteries Product and Services
- Table 77. Our Next Energy Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 78. Our Next Energy Recent Developments/Updates
- Table 79. Our Next Energy Competitive Strengths & Weaknesses
- Table 80. BEI Corp Basic Information, Manufacturing Base and Competitors
- Table 81. BEI Corp Major Business
- Table 82. BEI Corp Anode-free Batteries Product and Services
- Table 83. BEI Corp Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. BEI Corp Recent Developments/Updates
- Table 85. BEI Corp Competitive Strengths & Weaknesses
- Table 86. Panasonic Energy Basic Information, Manufacturing Base and Competitors
- Table 87. Panasonic Energy Major Business
- Table 88. Panasonic Energy Anode-free Batteries Product and Services
- Table 89. Panasonic Energy Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Panasonic Energy Recent Developments/Updates
- Table 91. Panasonic Energy Competitive Strengths & Weaknesses
- Table 92. LG Energy Solution Basic Information, Manufacturing Base and Competitors
- Table 93. LG Energy Solution Major Business
- Table 94. LG Energy Solution Anode-free Batteries Product and Services
- Table 95. LG Energy Solution Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. LG Energy Solution Recent Developments/Updates
- Table 97. LG Energy Solution Competitive Strengths & Weaknesses
- Table 98. CATL Basic Information, Manufacturing Base and Competitors
- Table 99. CATL Major Business
- Table 100. CATL Anode-free Batteries Product and Services

- Table 101. CATL Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. CATL Recent Developments/Updates
- Table 103. CATL Competitive Strengths & Weaknesses
- Table 104. Samsung SDI Basic Information, Manufacturing Base and Competitors
- Table 105. Samsung SDI Major Business
- Table 106. Samsung SDI Anode-free Batteries Product and Services
- Table 107. Samsung SDI Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Samsung SDI Recent Developments/Updates
- Table 109. Samsung SDI Competitive Strengths & Weaknesses
- Table 110. Solid Power Basic Information, Manufacturing Base and Competitors
- Table 111. Solid Power Major Business
- Table 112. Solid Power Anode-free Batteries Product and Services
- Table 113. Solid Power Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Solid Power Recent Developments/Updates
- Table 115. Solid Power Competitive Strengths & Weaknesses
- Table 116. Factorial Energy Basic Information, Manufacturing Base and Competitors
- Table 117. Factorial Energy Major Business
- Table 118. Factorial Energy Anode-free Batteries Product and Services
- Table 119. Factorial Energy Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. Factorial Energy Recent Developments/Updates
- Table 121. Factorial Energy Competitive Strengths & Weaknesses
- Table 122. Enovix Basic Information, Manufacturing Base and Competitors
- Table 123. Enovix Major Business
- Table 124. Enovix Anode-free Batteries Product and Services
- Table 125. Enovix Anode-free Batteries Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. Enovix Recent Developments/Updates
- Table 127. Enovix Competitive Strengths & Weaknesses
- Table 128. Global Key Players of Anode-free Batteries Upstream (Raw Materials)
- Table 129. Global Anode-free Batteries Typical Customers
- Table 130. Anode-free Batteries Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Anode-free Batteries Picture

Figure 2. World Anode-free Batteries Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Anode-free Batteries Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Anode-free Batteries Production (2021-2032) & (KWh)

Figure 5. World Anode-free Batteries Average Price (2021-2032) & (US\$/KWh)

Figure 6. World Anode-free Batteries Production Value Market Share by Region (2021-2032)

Figure 7. World Anode-free Batteries Production Market Share by Region (2021-2032)

Figure 8. North America Anode-free Batteries Production (2021-2032) & (KWh)

Figure 9. Europe Anode-free Batteries Production (2021-2032) & (KWh)

Figure 10. China Anode-free Batteries Production (2021-2032) & (KWh)

Figure 11. Japan Anode-free Batteries Production (2021-2032) & (KWh)

Figure 12. Anode-free Batteries Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 15. World Anode-free Batteries Consumption Market Share by Region (2021-2032)

Figure 16. United States Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 17. China Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 18. Europe Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 19. Japan Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 20. South Korea Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 21. ASEAN Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 22. India Anode-free Batteries Consumption (2021-2032) & (KWh)

Figure 23. Producer Shipments of Anode-free Batteries by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Anode-free Batteries Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Anode-free Batteries Markets in 2025

Figure 26. United States VS China: Anode-free Batteries Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Anode-free Batteries Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Anode-free Batteries Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Anode-free Batteries Production Market Share 2025

Figure 30. China Based Manufacturers Anode-free Batteries Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Anode-free Batteries Production Market Share 2025

Figure 32. World Anode-free Batteries Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Anode-free Batteries Production Value Market Share by Type in 2025

Figure 34. Liquid Electrolyte Anode-Free (LE-AFB)

Figure 35. Solid-State Anode-Free (SS-AFB)

Figure 36. World Anode-free Batteries Production Market Share by Type (2021-2032)

Figure 37. World Anode-free Batteries Production Value Market Share by Type (2021-2032)

Figure 38. World Anode-free Batteries Average Price by Type (2021-2032) & (US\$/KWh)

Figure 39. World Anode-free Batteries Production Value by Cathode Chemistry, (USD Million), 2021 & 2025 & 2032

Figure 40. World Anode-free Batteries Production Value Market Share by Cathode Chemistry in 2025

Figure 41. NMC-based (Nickel Manganese Cobalt)

Figure 42. NCA-based (Nickel Cobalt Aluminum)

Figure 43. LFP-based (Lithium Iron Phosphate)

Figure 44. World Anode-free Batteries Production Market Share by Cathode Chemistry (2021-2032)

Figure 45. World Anode-free Batteries Production Value Market Share by Cathode Chemistry (2021-2032)

Figure 46. World Anode-free Batteries Average Price by Cathode Chemistry (2021-2032) & (US\$/KWh)

Figure 47. World Anode-free Batteries Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Anode-free Batteries Production Value Market Share by Application in 2025

Figure 49. Electric Vehicles

Figure 50. UAV Systems

Figure 51. Consumer Electronics

Figure 52. Others

Figure 53. World Anode-free Batteries Production Market Share by Application (2021-2032)

Figure 54. World Anode-free Batteries Production Value Market Share by Application (2021-2032)

Figure 55. World Anode-free Batteries Average Price by Application (2021-2032) & (US\$/KWh)

Figure 56. Anode-free Batteries Industry Chain

Figure 57. Anode-free Batteries Procurement Model

Figure 58. Anode-free Batteries Sales Model

Figure 59. Anode-free Batteries Sales Channels, Direct Sales, and Distribution

Figure 60. Methodology

Figure 61. Research Process and Data Source

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