

Global Electrode Materials for Flow Batteries Market Growth 2026-2032

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Abstracts

The global Electrode Materials for Flow Batteries market size is predicted to grow from US\$ 252 million in 2025 to US\$ 766 million in 2032; it is expected to grow at a CAGR of 17.5% from 2026 to 2032.

Electrode material is one of the key materials for flow batteries. Unlike lithium-ion batteries, in flow batteries, the energy storage active material is stored in the form of electrolyte in a storage tank outside the stack, and the electrode itself does not participate in electrochemical reactions, only providing a reaction site for the oxidation-reduction reactions of the positive and negative energy storage active materials. The electrode materials of flow batteries are mainly metal and carbon.

The main market drivers include the following:

The surge in demand for renewable energy

The growth of global wind power and photovoltaic installed capacity has driven the demand for large-scale energy storage.

Policy support and subsidies

China, Europe and the United States have introduced special policies for energy storage to accelerate the commercialization of flow batteries.

Technological breakthroughs and cost reductions

Carbon felt/graphite felt modification technology (such as oxidation treatment) improves

performance, and large-scale production reduces costs.

Industry chain collaborative innovation

Electrode material companies cooperate with electrolyte and diaphragm manufacturers to optimize system efficiency.

The rise of demand for long-term energy storage

Flow batteries are suitable for energy storage scenarios of more than 4 hours, filling the gap in lithium batteries.

In-depth material modification

Improve electrochemical activity through surface treatment (such as nitrogen doping).

Carbon paper replaces carbon felt

Some companies have turned to carbon paper research and development to improve hydrophilicity and energy efficiency.

Accelerated localization

Companies such as Shanghai Carbon have made breakthroughs in the localization of carbon fiber felt and reduced dependence on imports.

Innovation of composite materials

Carbon/polymer composite materials take into account both conductivity and stability, becoming a research and development hotspot.

The market for flow battery electrode materials has benefited from the growth of renewable energy and technological iteration, and Chinese companies have taken a dominant position with their advantages in carbon-based materials. In the future, material modification, cost optimization and localization breakthroughs will become the core driving force to promote the widespread application of flow batteries in the field of long-term energy storage.

LP Information, Inc. (LPI) ' newest research report, the "Electrode Materials for Flow

Batteries Industry Forecast? looks at past sales and reviews total world Electrode Materials for Flow Batteries sales in 2025, providing a comprehensive analysis by region and market sector of projected Electrode Materials for Flow Batteries sales for 2026 through 2032. With Electrode Materials for Flow Batteries sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electrode Materials for Flow Batteries industry.

This Insight Report provides a comprehensive analysis of the global Electrode Materials for Flow Batteries landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Electrode Materials for Flow Batteries portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electrode Materials for Flow Batteries market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electrode Materials for Flow Batteries and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Electrode Materials for Flow Batteries.

This report presents a comprehensive overview, market shares, and growth opportunities of Electrode Materials for Flow Batteries market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Metal Electrode Materials

Carbon-based Electrode Materials

Composite Electrode Materials

Segmentation by Application:

Vanadium Redox Flow Battery

Mixed Flow Battery

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Mige New Material

Shenyang FLYING Carbon Fiber

Liaoning Jingu Carbon Material

CGT Carbon GmbH

SGL Carbon

CeTech

Sichuan Junrui Carbon Fiber Materials

CM Carbon

JNTG

ZH Energy Storage

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electrode Materials for Flow Batteries market?

What factors are driving Electrode Materials for Flow Batteries market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Electrode Materials for Flow Batteries market opportunities vary by end market size?

How does Electrode Materials for Flow Batteries break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Electrode Materials for Flow Batteries Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Electrode Materials for Flow Batteries by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Electrode Materials for Flow Batteries by Country/Region, 2021, 2025 & 2032

2.2 Electrode Materials for Flow Batteries Segment by Type

- 2.2.1 Metal Electrode Materials
- 2.2.2 Carbon-based Electrode Materials
- 2.2.3 Composite Electrode Materials
- 2.2.4 Electrode Materials for Flow Batteries Sales by Type
 - 2.2.4.1 Global Electrode Materials for Flow Batteries Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Electrode Materials for Flow Batteries Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Electrode Materials for Flow Batteries Sale Price by Type (2021-2026)

2.3 Electrode Materials for Flow Batteries Segment by Application

- 2.3.1 Vanadium Redox Flow Battery
- 2.3.2 Mixed Flow Battery
- 2.3.3 Electrode Materials for Flow Batteries Sales by Application
 - 2.3.3.1 Global Electrode Materials for Flow Batteries Sale Market Share by Application (2021-2026)
 - 2.3.3.2 Global Electrode Materials for Flow Batteries Revenue and Market Share by Application (2021-2026)

2.3.3.3 Global Electrode Materials for Flow Batteries Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Electrode Materials for Flow Batteries Breakdown Data by Company

3.1.1 Global Electrode Materials for Flow Batteries Annual Sales by Company (2021-2026)

3.1.2 Global Electrode Materials for Flow Batteries Sales Market Share by Company (2021-2026)

3.2 Global Electrode Materials for Flow Batteries Annual Revenue by Company (2021-2026)

3.2.1 Global Electrode Materials for Flow Batteries Revenue by Company (2021-2026)

3.2.2 Global Electrode Materials for Flow Batteries Revenue Market Share by Company (2021-2026)

3.3 Global Electrode Materials for Flow Batteries Sale Price by Company

3.4 Key Manufacturers Electrode Materials for Flow Batteries Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Electrode Materials for Flow Batteries Product Location Distribution

3.4.2 Players Electrode Materials for Flow Batteries Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ELECTRODE MATERIALS FOR FLOW BATTERIES BY GEOGRAPHIC REGION

4.1 World Historic Electrode Materials for Flow Batteries Market Size by Geographic Region (2021-2026)

4.1.1 Global Electrode Materials for Flow Batteries Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Electrode Materials for Flow Batteries Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Electrode Materials for Flow Batteries Market Size by Country/Region (2021-2026)

4.2.1 Global Electrode Materials for Flow Batteries Annual Sales by Country/Region

(2021-2026)

4.2.2 Global Electrode Materials for Flow Batteries Annual Revenue by Country/Region (2021-2026)

4.3 Americas Electrode Materials for Flow Batteries Sales Growth

4.4 APAC Electrode Materials for Flow Batteries Sales Growth

4.5 Europe Electrode Materials for Flow Batteries Sales Growth

4.6 Middle East & Africa Electrode Materials for Flow Batteries Sales Growth

5 AMERICAS

5.1 Americas Electrode Materials for Flow Batteries Sales by Country

5.1.1 Americas Electrode Materials for Flow Batteries Sales by Country (2021-2026)

5.1.2 Americas Electrode Materials for Flow Batteries Revenue by Country (2021-2026)

5.2 Americas Electrode Materials for Flow Batteries Sales by Type (2021-2026)

5.3 Americas Electrode Materials for Flow Batteries Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Electrode Materials for Flow Batteries Sales by Region

6.1.1 APAC Electrode Materials for Flow Batteries Sales by Region (2021-2026)

6.1.2 APAC Electrode Materials for Flow Batteries Revenue by Region (2021-2026)

6.2 APAC Electrode Materials for Flow Batteries Sales by Type (2021-2026)

6.3 APAC Electrode Materials for Flow Batteries Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Electrode Materials for Flow Batteries by Country

- 7.1.1 Europe Electrode Materials for Flow Batteries Sales by Country (2021-2026)
- 7.1.2 Europe Electrode Materials for Flow Batteries Revenue by Country (2021-2026)
- 7.2 Europe Electrode Materials for Flow Batteries Sales by Type (2021-2026)
- 7.3 Europe Electrode Materials for Flow Batteries Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Electrode Materials for Flow Batteries by Country
 - 8.1.1 Middle East & Africa Electrode Materials for Flow Batteries Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Electrode Materials for Flow Batteries Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Electrode Materials for Flow Batteries Sales by Type (2021-2026)
- 8.3 Middle East & Africa Electrode Materials for Flow Batteries Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Electrode Materials for Flow Batteries
- 10.3 Manufacturing Process Analysis of Electrode Materials for Flow Batteries
- 10.4 Industry Chain Structure of Electrode Materials for Flow Batteries

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Electrode Materials for Flow Batteries Distributors

11.3 Electrode Materials for Flow Batteries Customer

12 WORLD FORECAST REVIEW FOR ELECTRODE MATERIALS FOR FLOW BATTERIES BY GEOGRAPHIC REGION

12.1 Global Electrode Materials for Flow Batteries Market Size Forecast by Region

12.1.1 Global Electrode Materials for Flow Batteries Forecast by Region (2027-2032)

12.1.2 Global Electrode Materials for Flow Batteries Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Electrode Materials for Flow Batteries Forecast by Type (2027-2032)

12.7 Global Electrode Materials for Flow Batteries Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Mige New Material

13.1.1 Mige New Material Company Information

13.1.2 Mige New Material Electrode Materials for Flow Batteries Product Portfolios and Specifications

13.1.3 Mige New Material Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Mige New Material Main Business Overview

13.1.5 Mige New Material Latest Developments

13.2 Shenyang FLYING Carbon Fiber

13.2.1 Shenyang FLYING Carbon Fiber Company Information

13.2.2 Shenyang FLYING Carbon Fiber Electrode Materials for Flow Batteries Product Portfolios and Specifications

13.2.3 Shenyang FLYING Carbon Fiber Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 Shenyang FLYING Carbon Fiber Main Business Overview
- 13.2.5 Shenyang FLYING Carbon Fiber Latest Developments
- 13.3 Liaoning Jingu Carbon Material
 - 13.3.1 Liaoning Jingu Carbon Material Company Information
 - 13.3.2 Liaoning Jingu Carbon Material Electrode Materials for Flow Batteries Product Portfolios and Specifications
 - 13.3.3 Liaoning Jingu Carbon Material Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Liaoning Jingu Carbon Material Main Business Overview
 - 13.3.5 Liaoning Jingu Carbon Material Latest Developments
- 13.4 CGT Carbon GmbH
 - 13.4.1 CGT Carbon GmbH Company Information
 - 13.4.2 CGT Carbon GmbH Electrode Materials for Flow Batteries Product Portfolios and Specifications
 - 13.4.3 CGT Carbon GmbH Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 CGT Carbon GmbH Main Business Overview
 - 13.4.5 CGT Carbon GmbH Latest Developments
- 13.5 SGL Carbon
 - 13.5.1 SGL Carbon Company Information
 - 13.5.2 SGL Carbon Electrode Materials for Flow Batteries Product Portfolios and Specifications
 - 13.5.3 SGL Carbon Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 SGL Carbon Main Business Overview
 - 13.5.5 SGL Carbon Latest Developments
- 13.6 CeTech
 - 13.6.1 CeTech Company Information
 - 13.6.2 CeTech Electrode Materials for Flow Batteries Product Portfolios and Specifications
 - 13.6.3 CeTech Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 CeTech Main Business Overview
 - 13.6.5 CeTech Latest Developments
- 13.7 Sichuan Junrui Carbon Fiber Materials
 - 13.7.1 Sichuan Junrui Carbon Fiber Materials Company Information
 - 13.7.2 Sichuan Junrui Carbon Fiber Materials Electrode Materials for Flow Batteries Product Portfolios and Specifications
 - 13.7.3 Sichuan Junrui Carbon Fiber Materials Electrode Materials for Flow Batteries

Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Sichuan Junrui Carbon Fiber Materials Main Business Overview

13.7.5 Sichuan Junrui Carbon Fiber Materials Latest Developments

13.8 CM Carbon

13.8.1 CM Carbon Company Information

13.8.2 CM Carbon Electrode Materials for Flow Batteries Product Portfolios and Specifications

13.8.3 CM Carbon Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 CM Carbon Main Business Overview

13.8.5 CM Carbon Latest Developments

13.9 JNTG

13.9.1 JNTG Company Information

13.9.2 JNTG Electrode Materials for Flow Batteries Product Portfolios and Specifications

13.9.3 JNTG Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 JNTG Main Business Overview

13.9.5 JNTG Latest Developments

13.10 ZH Energy Storage

13.10.1 ZH Energy Storage Company Information

13.10.2 ZH Energy Storage Electrode Materials for Flow Batteries Product Portfolios and Specifications

13.10.3 ZH Energy Storage Electrode Materials for Flow Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 ZH Energy Storage Main Business Overview

13.10.5 ZH Energy Storage Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Electrode Materials for Flow Batteries Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Electrode Materials for Flow Batteries Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Metal Electrode Materials

Table 4. Major Players of Carbon-based Electrode Materials

Table 5. Major Players of Composite Electrode Materials

Table 6. Global Electrode Materials for Flow Batteries Sales by Type (2021-2026) & (Tons)

Table 7. Global Electrode Materials for Flow Batteries Sales Market Share by Type (2021-2026)

Table 8. Global Electrode Materials for Flow Batteries Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Electrode Materials for Flow Batteries Revenue Market Share by Type (2021-2026)

Table 10. Global Electrode Materials for Flow Batteries Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Global Electrode Materials for Flow Batteries Sale by Application (2021-2026) & (Tons)

Table 12. Global Electrode Materials for Flow Batteries Sale Market Share by Application (2021-2026)

Table 13. Global Electrode Materials for Flow Batteries Revenue by Application (2021-2026) & (\$ million)

Table 14. Global Electrode Materials for Flow Batteries Revenue Market Share by Application (2021-2026)

Table 15. Global Electrode Materials for Flow Batteries Sale Price by Application (2021-2026) & (US\$/Ton)

Table 16. Global Electrode Materials for Flow Batteries Sales by Company (2021-2026) & (Tons)

Table 17. Global Electrode Materials for Flow Batteries Sales Market Share by Company (2021-2026)

Table 18. Global Electrode Materials for Flow Batteries Revenue by Company (2021-2026) & (\$ millions)

Table 19. Global Electrode Materials for Flow Batteries Revenue Market Share by Company (2021-2026)

Table 20. Global Electrode Materials for Flow Batteries Sale Price by Company (2021-2026) & (US\$/Ton)

Table 21. Key Manufacturers Electrode Materials for Flow Batteries Producing Area Distribution and Sales Area

Table 22. Players Electrode Materials for Flow Batteries Products Offered

Table 23. Electrode Materials for Flow Batteries Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Electrode Materials for Flow Batteries Sales by Geographic Region (2021-2026) & (Tons)

Table 27. Global Electrode Materials for Flow Batteries Sales Market Share Geographic Region (2021-2026)

Table 28. Global Electrode Materials for Flow Batteries Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 29. Global Electrode Materials for Flow Batteries Revenue Market Share by Geographic Region (2021-2026)

Table 30. Global Electrode Materials for Flow Batteries Sales by Country/Region (2021-2026) & (Tons)

Table 31. Global Electrode Materials for Flow Batteries Sales Market Share by Country/Region (2021-2026)

Table 32. Global Electrode Materials for Flow Batteries Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global Electrode Materials for Flow Batteries Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas Electrode Materials for Flow Batteries Sales by Country (2021-2026) & (Tons)

Table 35. Americas Electrode Materials for Flow Batteries Sales Market Share by Country (2021-2026)

Table 36. Americas Electrode Materials for Flow Batteries Revenue by Country (2021-2026) & (\$ millions)

Table 37. Americas Electrode Materials for Flow Batteries Sales by Type (2021-2026) & (Tons)

Table 38. Americas Electrode Materials for Flow Batteries Sales by Application (2021-2026) & (Tons)

Table 39. APAC Electrode Materials for Flow Batteries Sales by Region (2021-2026) & (Tons)

Table 40. APAC Electrode Materials for Flow Batteries Sales Market Share by Region (2021-2026)

Table 41. APAC Electrode Materials for Flow Batteries Revenue by Region (2021-2026) & (\$ millions)

Table 42. APAC Electrode Materials for Flow Batteries Sales by Type (2021-2026) & (Tons)

Table 43. APAC Electrode Materials for Flow Batteries Sales by Application (2021-2026) & (Tons)

Table 44. Europe Electrode Materials for Flow Batteries Sales by Country (2021-2026) & (Tons)

Table 45. Europe Electrode Materials for Flow Batteries Revenue by Country (2021-2026) & (\$ millions)

Table 46. Europe Electrode Materials for Flow Batteries Sales by Type (2021-2026) & (Tons)

Table 47. Europe Electrode Materials for Flow Batteries Sales by Application (2021-2026) & (Tons)

Table 48. Middle East & Africa Electrode Materials for Flow Batteries Sales by Country (2021-2026) & (Tons)

Table 49. Middle East & Africa Electrode Materials for Flow Batteries Revenue Market Share by Country (2021-2026)

Table 50. Middle East & Africa Electrode Materials for Flow Batteries Sales by Type (2021-2026) & (Tons)

Table 51. Middle East & Africa Electrode Materials for Flow Batteries Sales by Application (2021-2026) & (Tons)

Table 52. Key Market Drivers & Growth Opportunities of Electrode Materials for Flow Batteries

Table 53. Key Market Challenges & Risks of Electrode Materials for Flow Batteries

Table 54. Key Industry Trends of Electrode Materials for Flow Batteries

Table 55. Electrode Materials for Flow Batteries Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Electrode Materials for Flow Batteries Distributors List

Table 58. Electrode Materials for Flow Batteries Customer List

Table 59. Global Electrode Materials for Flow Batteries Sales Forecast by Region (2027-2032) & (Tons)

Table 60. Global Electrode Materials for Flow Batteries Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 61. Americas Electrode Materials for Flow Batteries Sales Forecast by Country (2027-2032) & (Tons)

Table 62. Americas Electrode Materials for Flow Batteries Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 63. APAC Electrode Materials for Flow Batteries Sales Forecast by Region

(2027-2032) & (Tons)

Table 64. APAC Electrode Materials for Flow Batteries Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 65. Europe Electrode Materials for Flow Batteries Sales Forecast by Country (2027-2032) & (Tons)

Table 66. Europe Electrode Materials for Flow Batteries Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 67. Middle East & Africa Electrode Materials for Flow Batteries Sales Forecast by Country (2027-2032) & (Tons)

Table 68. Middle East & Africa Electrode Materials for Flow Batteries Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Global Electrode Materials for Flow Batteries Sales Forecast by Type (2027-2032) & (Tons)

Table 70. Global Electrode Materials for Flow Batteries Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 71. Global Electrode Materials for Flow Batteries Sales Forecast by Application (2027-2032) & (Tons)

Table 72. Global Electrode Materials for Flow Batteries Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 73. Mige New Material Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 74. Mige New Material Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 75. Mige New Material Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 76. Mige New Material Main Business

Table 77. Mige New Material Latest Developments

Table 78. Shenyang FLYING Carbon Fiber Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 79. Shenyang FLYING Carbon Fiber Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 80. Shenyang FLYING Carbon Fiber Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 81. Shenyang FLYING Carbon Fiber Main Business

Table 82. Shenyang FLYING Carbon Fiber Latest Developments

Table 83. Liaoning Jingu Carbon Material Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 84. Liaoning Jingu Carbon Material Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 85. Liaoning Jingu Carbon Material Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 86. Liaoning Jingu Carbon Material Main Business

Table 87. Liaoning Jingu Carbon Material Latest Developments

Table 88. CGT Carbon GmbH Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 89. CGT Carbon GmbH Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 90. CGT Carbon GmbH Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 91. CGT Carbon GmbH Main Business

Table 92. CGT Carbon GmbH Latest Developments

Table 93. SGL Carbon Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 94. SGL Carbon Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 95. SGL Carbon Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 96. SGL Carbon Main Business

Table 97. SGL Carbon Latest Developments

Table 98. CeTech Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 99. CeTech Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 100. CeTech Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 101. CeTech Main Business

Table 102. CeTech Latest Developments

Table 103. Sichuan Junrui Carbon Fiber Materials Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 104. Sichuan Junrui Carbon Fiber Materials Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 105. Sichuan Junrui Carbon Fiber Materials Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 106. Sichuan Junrui Carbon Fiber Materials Main Business

Table 107. Sichuan Junrui Carbon Fiber Materials Latest Developments

Table 108. CM Carbon Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 109. CM Carbon Electrode Materials for Flow Batteries Product Portfolios and

Specifications

Table 110. CM Carbon Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 111. CM Carbon Main Business

Table 112. CM Carbon Latest Developments

Table 113. JNTG Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 114. JNTG Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 115. JNTG Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. JNTG Main Business

Table 117. JNTG Latest Developments

Table 118. ZH Energy Storage Basic Information, Electrode Materials for Flow Batteries Manufacturing Base, Sales Area and Its Competitors

Table 119. ZH Energy Storage Electrode Materials for Flow Batteries Product Portfolios and Specifications

Table 120. ZH Energy Storage Electrode Materials for Flow Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 121. ZH Energy Storage Main Business

Table 122. ZH Energy Storage Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Electrode Materials for Flow Batteries
- Figure 2. Electrode Materials for Flow Batteries Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Electrode Materials for Flow Batteries Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Electrode Materials for Flow Batteries Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Electrode Materials for Flow Batteries Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Electrode Materials for Flow Batteries Sales Market Share by Country/Region (2025)
- Figure 10. Electrode Materials for Flow Batteries Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Metal Electrode Materials
- Figure 12. Product Picture of Carbon-based Electrode Materials
- Figure 13. Product Picture of Composite Electrode Materials
- Figure 14. Global Electrode Materials for Flow Batteries Sales Market Share by Type in 2026
- Figure 15. Global Electrode Materials for Flow Batteries Revenue Market Share by Type (2021-2026)
- Figure 16. Electrode Materials for Flow Batteries Consumed in Vanadium Redox Flow Battery
- Figure 17. Global Electrode Materials for Flow Batteries Market: Vanadium Redox Flow Battery (2021-2026) & (Tons)
- Figure 18. Electrode Materials for Flow Batteries Consumed in Mixed Flow Battery
- Figure 19. Global Electrode Materials for Flow Batteries Market: Mixed Flow Battery (2021-2026) & (Tons)
- Figure 20. Global Electrode Materials for Flow Batteries Sale Market Share by Application (2025)
- Figure 21. Global Electrode Materials for Flow Batteries Revenue Market Share by Application in 2026
- Figure 22. Electrode Materials for Flow Batteries Sales by Company in 2026 (Tons)
- Figure 23. Global Electrode Materials for Flow Batteries Sales Market Share by

Company in 2026

Figure 24. Electrode Materials for Flow Batteries Revenue by Company in 2026 (\$ millions)

Figure 25. Global Electrode Materials for Flow Batteries Revenue Market Share by Company in 2026

Figure 26. Global Electrode Materials for Flow Batteries Sales Market Share by Geographic Region (2021-2026)

Figure 27. Global Electrode Materials for Flow Batteries Revenue Market Share by Geographic Region in 2026

Figure 28. Americas Electrode Materials for Flow Batteries Sales 2021-2026 (Tons)

Figure 29. Americas Electrode Materials for Flow Batteries Revenue 2021-2026 (\$ millions)

Figure 30. APAC Electrode Materials for Flow Batteries Sales 2021-2026 (Tons)

Figure 31. APAC Electrode Materials for Flow Batteries Revenue 2021-2026 (\$ millions)

Figure 32. Europe Electrode Materials for Flow Batteries Sales 2021-2026 (Tons)

Figure 33. Europe Electrode Materials for Flow Batteries Revenue 2021-2026 (\$ millions)

Figure 34. Middle East & Africa Electrode Materials for Flow Batteries Sales 2021-2026 (Tons)

Figure 35. Middle East & Africa Electrode Materials for Flow Batteries Revenue 2021-2026 (\$ millions)

Figure 36. Americas Electrode Materials for Flow Batteries Sales Market Share by Country in 2026

Figure 37. Americas Electrode Materials for Flow Batteries Revenue Market Share by Country (2021-2026)

Figure 38. Americas Electrode Materials for Flow Batteries Sales Market Share by Type (2021-2026)

Figure 39. Americas Electrode Materials for Flow Batteries Sales Market Share by Application (2021-2026)

Figure 40. United States Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 41. Canada Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 42. Mexico Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 43. Brazil Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 44. APAC Electrode Materials for Flow Batteries Sales Market Share by Region in 2026

Figure 45. APAC Electrode Materials for Flow Batteries Revenue Market Share by Region (2021-2026)

Figure 46. APAC Electrode Materials for Flow Batteries Sales Market Share by Type (2021-2026)

Figure 47. APAC Electrode Materials for Flow Batteries Sales Market Share by Application (2021-2026)

Figure 48. China Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 49. Japan Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 50. South Korea Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 51. Southeast Asia Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 52. India Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 53. Australia Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 54. China Taiwan Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 55. Europe Electrode Materials for Flow Batteries Sales Market Share by Country in 2026

Figure 56. Europe Electrode Materials for Flow Batteries Revenue Market Share by Country (2021-2026)

Figure 57. Europe Electrode Materials for Flow Batteries Sales Market Share by Type (2021-2026)

Figure 58. Europe Electrode Materials for Flow Batteries Sales Market Share by Application (2021-2026)

Figure 59. Germany Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 60. France Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 61. UK Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 62. Italy Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 63. Russia Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 64. Middle East & Africa Electrode Materials for Flow Batteries Sales Market

Share by Country (2021-2026)

Figure 65. Middle East & Africa Electrode Materials for Flow Batteries Sales Market

Share by Type (2021-2026)

Figure 66. Middle East & Africa Electrode Materials for Flow Batteries Sales Market

Share by Application (2021-2026)

Figure 67. Egypt Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Africa Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 69. Israel Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 70. Turkey Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 71. GCC Countries Electrode Materials for Flow Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 72. Manufacturing Cost Structure Analysis of Electrode Materials for Flow Batteries in 2026

Figure 73. Manufacturing Process Analysis of Electrode Materials for Flow Batteries

Figure 74. Industry Chain Structure of Electrode Materials for Flow Batteries

Figure 75. Channels of Distribution

Figure 76. Global Electrode Materials for Flow Batteries Sales Market Forecast by Region (2027-2032)

Figure 77. Global Electrode Materials for Flow Batteries Revenue Market Share Forecast by Region (2027-2032)

Figure 78. Global Electrode Materials for Flow Batteries Sales Market Share Forecast by Type (2027-2032)

Figure 79. Global Electrode Materials for Flow Batteries Revenue Market Share Forecast by Type (2027-2032)

Figure 80. Global Electrode Materials for Flow Batteries Sales Market Share Forecast by Application (2027-2032)

Figure 81. Global Electrode Materials for Flow Batteries Revenue Market Share Forecast by Application (2027-2032)

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