

Global Energy Storage Battery Recycled Black Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Energy Storage Battery Recycled Black Powder market size is expected to reach \$ 786 million by 2032, rising at a market growth of 12.7% CAGR during the forecast period (2026-2032).

NCM Cathode Black Powder refers to the cathode-active material concentrate recovered from end-of-life nickel-cobalt-manganese lithium-ion batteries through discharge, dismantling, crushing, and physical separation processes. The material is rich in nickel, cobalt, manganese, lithium, and residual graphite carbon, and serves as a critical intermediate feedstock for hydrometallurgical extraction and regeneration of battery-grade ternary cathode materials. In 2025, the industry's capacity utilization rate reached 73%, and the average gross margin was approximately 50%. Production in 2025 totaled about 143,500 tons, with an average price of USD 2,300 per ton. The upstream segment mainly consists of specialized battery recycling equipment manufacturers, with representative suppliers including STEINERT, Batrium, Zhejiang Tianchang Intelligent Manufacturing Co., Ltd., and Brunp Recycling Equipment Division. The midstream focuses on black powder processing, composition optimization, and deep impurity removal, covering precision crushing, pyrolysis, screening, and metal enrichment technologies. Downstream applications are concentrated in the regenerated manufacturing of cathode materials for power and energy storage batteries, with typical customers including CATL, BYD, LG Energy Solution, and Tesla.

With the rapid growth of new energy vehicles, energy storage systems, and portable electronic devices, lithium battery recycled black powder, as a key intermediate rich in strategic metals such as nickel, cobalt, and lithium, is experiencing steadily increasing market demand. Its high metal recovery rate and excellent material performance

provide significant value in reducing raw material costs, securing supply, and promoting the circular economy. Over the next five to ten years, policy support, technological advances, and environmental requirements are expected to further unlock industry potential, positioning lithium battery recycled black powder as a core component in the global battery recycling ecosystem, driving supply chain optimization and generating substantial economic and sustainable development benefits.

This report studies the global Energy Storage Battery Recycled Black Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Energy Storage Battery Recycled Black Powder 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 Energy Storage Battery Recycled Black Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Energy Storage Battery Recycled Black Powder total production and demand, 2021-2032, (Tons)

Global Energy Storage Battery Recycled Black Powder total production value, 2021-2032, (USD Million)

Global Energy Storage Battery Recycled Black Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Energy Storage Battery Recycled Black Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Energy Storage Battery Recycled Black Powder domestic production, consumption, key domestic manufacturers and share

Global Energy Storage Battery Recycled Black Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Energy Storage Battery Recycled Black Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Energy Storage Battery Recycled Black Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Energy Storage Battery Recycled Black Powder 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 Brunp Recycling, Ganfeng Lithium, GEM, Miracle Automation Engineering, Redwood Materials, Glencore, Ganzhou Longkai Technology, Huayou Cobalt, Umicore, SungEel HiTech, 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 Energy Storage Battery Recycled Black Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Energy Storage Battery Recycled Black Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Energy Storage Battery Recycled Black Powder Market, Segmentation by Type:

Ternary Lithium Cathode

LiFePO₄ Cathode

Others

Global Energy Storage Battery Recycled Black Powder Market, Segmentation by Technology:

Dry Method

Wet Method

Others

Global Energy Storage Battery Recycled Black Powder Market, Segmentation by Acid-insoluble Residue:

? 5.00%

? 1.00%

Global Energy Storage Battery Recycled Black Powder Market, Segmentation by Application:

Power Battery

Consumer Electronics Battery

Energy Storage Battery

Others

Companies Profiled:

Brunp Recycling

Ganfeng Lithium

GEM

Miracle Automation Engineering

Redwood Materials

Glencore

Ganzhou Longkai Technology

Huayou Cobalt

Umicore

SungEel HiTech

Key Questions Answered:

1. How big is the global Energy Storage Battery Recycled Black Powder market?
2. What is the demand of the global Energy Storage Battery Recycled Black Powder market?
3. What is the year over year growth of the global Energy Storage Battery Recycled Black Powder market?
4. What is the production and production value of the global Energy Storage Battery Recycled Black Powder market?
5. Who are the key producers in the global Energy Storage Battery Recycled Black Powder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Energy Storage Battery Recycled Black Powder Introduction
- 1.2 World Energy Storage Battery Recycled Black Powder Supply & Forecast
 - 1.2.1 World Energy Storage Battery Recycled Black Powder Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Energy Storage Battery Recycled Black Powder Production (2021-2032)
 - 1.2.3 World Energy Storage Battery Recycled Black Powder Pricing Trends (2021-2032)
- 1.3 World Energy Storage Battery Recycled Black Powder Production by Region (Based on Production Site)
 - 1.3.1 World Energy Storage Battery Recycled Black Powder Production Value by Region (2021-2032)
 - 1.3.2 World Energy Storage Battery Recycled Black Powder Production by Region (2021-2032)
 - 1.3.3 World Energy Storage Battery Recycled Black Powder Average Price by Region (2021-2032)
 - 1.3.4 North America Energy Storage Battery Recycled Black Powder Production (2021-2032)
 - 1.3.5 Europe Energy Storage Battery Recycled Black Powder Production (2021-2032)
 - 1.3.6 China Energy Storage Battery Recycled Black Powder Production (2021-2032)
 - 1.3.7 Japan Energy Storage Battery Recycled Black Powder Production (2021-2032)
 - 1.3.8 India Energy Storage Battery Recycled Black Powder Production (2021-2032)
 - 1.3.9 Southeast Asia Energy Storage Battery Recycled Black Powder Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Energy Storage Battery Recycled Black Powder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Energy Storage Battery Recycled Black Powder Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Energy Storage Battery Recycled Black Powder Demand (2021-2032)
- 2.2 World Energy Storage Battery Recycled Black Powder Consumption by Region
 - 2.2.1 World Energy Storage Battery Recycled Black Powder Consumption by Region (2021-2026)
 - 2.2.2 World Energy Storage Battery Recycled Black Powder Consumption Forecast by

Region (2027-2032)

2.3 United States Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

2.4 China Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

2.5 Europe Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

2.6 Japan Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

2.7 South Korea Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

2.8 ASEAN Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

2.9 India Energy Storage Battery Recycled Black Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Energy Storage Battery Recycled Black Powder Production Value by Manufacturer (2021-2026)

3.2 World Energy Storage Battery Recycled Black Powder Production by Manufacturer (2021-2026)

3.3 World Energy Storage Battery Recycled Black Powder Average Price by Manufacturer (2021-2026)

3.4 Energy Storage Battery Recycled Black Powder Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Energy Storage Battery Recycled Black Powder Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Energy Storage Battery Recycled Black Powder in 2025

3.5.3 Global Concentration Ratios (CR8) for Energy Storage Battery Recycled Black Powder in 2025

3.6 Energy Storage Battery Recycled Black Powder Market: Overall Company Footprint Analysis

3.6.1 Energy Storage Battery Recycled Black Powder Market: Region Footprint

3.6.2 Energy Storage Battery Recycled Black Powder Market: Company Product Type Footprint

3.6.3 Energy Storage Battery Recycled Black Powder 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: Energy Storage Battery Recycled Black Powder Production Value Comparison

4.1.1 United States VS China: Energy Storage Battery Recycled Black Powder Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Energy Storage Battery Recycled Black Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Energy Storage Battery Recycled Black Powder Production Comparison

4.2.1 United States VS China: Energy Storage Battery Recycled Black Powder Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Energy Storage Battery Recycled Black Powder Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Energy Storage Battery Recycled Black Powder Consumption Comparison

4.3.1 United States VS China: Energy Storage Battery Recycled Black Powder Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Energy Storage Battery Recycled Black Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Energy Storage Battery Recycled Black Powder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Energy Storage Battery Recycled Black Powder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production (2021-2026)

4.5 China Based Energy Storage Battery Recycled Black Powder Manufacturers and Market Share

4.5.1 China Based Energy Storage Battery Recycled Black Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers Energy Storage Battery Recycled Black Powder Production (2021-2026)

4.6 Rest of World Based Energy Storage Battery Recycled Black Powder Manufacturers

and Market Share, 2021-2026

4.6.1 Rest of World Based Energy Storage Battery Recycled Black Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Energy Storage Battery Recycled Black Powder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ternary Lithium Cathode

5.2.2 LiFePO4 Cathode

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Energy Storage Battery Recycled Black Powder Production by Type (2021-2032)

5.3.2 World Energy Storage Battery Recycled Black Powder Production Value by Type (2021-2032)

5.3.3 World Energy Storage Battery Recycled Black Powder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World Energy Storage Battery Recycled Black Powder Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Dry Method

6.2.2 Wet Method

6.2.3 Others

6.3 Market Segment by Technology

6.3.1 World Energy Storage Battery Recycled Black Powder Production by Technology (2021-2032)

6.3.2 World Energy Storage Battery Recycled Black Powder Production Value by Technology (2021-2032)

6.3.3 World Energy Storage Battery Recycled Black Powder Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY ACID-INSOLUBLE RESIDUE

7.1 World Energy Storage Battery Recycled Black Powder Market Size Overview by Acid-insoluble Residue: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Acid-insoluble Residue

7.2.1 ? 5.00%

7.2.2 ? 1.00%

7.3 Market Segment by Acid-insoluble Residue

7.3.1 World Energy Storage Battery Recycled Black Powder Production by Acid-insoluble Residue (2021-2032)

7.3.2 World Energy Storage Battery Recycled Black Powder Production Value by Acid-insoluble Residue (2021-2032)

7.3.3 World Energy Storage Battery Recycled Black Powder Average Price by Acid-insoluble Residue (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Energy Storage Battery Recycled Black Powder Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Battery

8.2.2 Consumer Electronics Battery

8.2.3 Energy Storage Battery

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Energy Storage Battery Recycled Black Powder Production by Application (2021-2032)

8.3.2 World Energy Storage Battery Recycled Black Powder Production Value by Application (2021-2032)

8.3.3 World Energy Storage Battery Recycled Black Powder Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Brunp Recycling

9.1.1 Brunp Recycling Details

9.1.2 Brunp Recycling Major Business

9.1.3 Brunp Recycling Energy Storage Battery Recycled Black Powder Product and

Services

9.1.4 Brunp Recycling Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Brunp Recycling Recent Developments/Updates

9.1.6 Brunp Recycling Competitive Strengths & Weaknesses

9.2 Ganfeng Lithium

9.2.1 Ganfeng Lithium Details

9.2.2 Ganfeng Lithium Major Business

9.2.3 Ganfeng Lithium Energy Storage Battery Recycled Black Powder Product and Services

9.2.4 Ganfeng Lithium Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Ganfeng Lithium Recent Developments/Updates

9.2.6 Ganfeng Lithium Competitive Strengths & Weaknesses

9.3 GEM

9.3.1 GEM Details

9.3.2 GEM Major Business

9.3.3 GEM Energy Storage Battery Recycled Black Powder Product and Services

9.3.4 GEM Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 GEM Recent Developments/Updates

9.3.6 GEM Competitive Strengths & Weaknesses

9.4 Miracle Automation Engineering

9.4.1 Miracle Automation Engineering Details

9.4.2 Miracle Automation Engineering Major Business

9.4.3 Miracle Automation Engineering Energy Storage Battery Recycled Black Powder Product and Services

9.4.4 Miracle Automation Engineering Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Miracle Automation Engineering Recent Developments/Updates

9.4.6 Miracle Automation Engineering Competitive Strengths & Weaknesses

9.5 Redwood Materials

9.5.1 Redwood Materials Details

9.5.2 Redwood Materials Major Business

9.5.3 Redwood Materials Energy Storage Battery Recycled Black Powder Product and Services

9.5.4 Redwood Materials Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Redwood Materials Recent Developments/Updates

- 9.5.6 Redwood Materials Competitive Strengths & Weaknesses
- 9.6 Glencore
 - 9.6.1 Glencore Details
 - 9.6.2 Glencore Major Business
 - 9.6.3 Glencore Energy Storage Battery Recycled Black Powder Product and Services
 - 9.6.4 Glencore Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Glencore Recent Developments/Updates
 - 9.6.6 Glencore Competitive Strengths & Weaknesses
- 9.7 Ganzhou Longkai Technology
 - 9.7.1 Ganzhou Longkai Technology Details
 - 9.7.2 Ganzhou Longkai Technology Major Business
 - 9.7.3 Ganzhou Longkai Technology Energy Storage Battery Recycled Black Powder Product and Services
 - 9.7.4 Ganzhou Longkai Technology Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ganzhou Longkai Technology Recent Developments/Updates
 - 9.7.6 Ganzhou Longkai Technology Competitive Strengths & Weaknesses
- 9.8 Huayou Cobalt
 - 9.8.1 Huayou Cobalt Details
 - 9.8.2 Huayou Cobalt Major Business
 - 9.8.3 Huayou Cobalt Energy Storage Battery Recycled Black Powder Product and Services
 - 9.8.4 Huayou Cobalt Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Huayou Cobalt Recent Developments/Updates
 - 9.8.6 Huayou Cobalt Competitive Strengths & Weaknesses
- 9.9 Umicore
 - 9.9.1 Umicore Details
 - 9.9.2 Umicore Major Business
 - 9.9.3 Umicore Energy Storage Battery Recycled Black Powder Product and Services
 - 9.9.4 Umicore Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Umicore Recent Developments/Updates
 - 9.9.6 Umicore Competitive Strengths & Weaknesses
- 9.10 SungEel HiTech
 - 9.10.1 SungEel HiTech Details
 - 9.10.2 SungEel HiTech Major Business
 - 9.10.3 SungEel HiTech Energy Storage Battery Recycled Black Powder Product and

Services

9.10.4 SungEel HiTech Energy Storage Battery Recycled Black Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 SungEel HiTech Recent Developments/Updates

9.10.6 SungEel HiTech Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Energy Storage Battery Recycled Black Powder Industry Chain

10.2 Energy Storage Battery Recycled Black Powder Upstream Analysis

10.2.1 Energy Storage Battery Recycled Black Powder Core Raw Materials

10.2.2 Main Manufacturers of Energy Storage Battery Recycled Black Powder Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Energy Storage Battery Recycled Black Powder Production Mode

10.6 Energy Storage Battery Recycled Black Powder Procurement Model

10.7 Energy Storage Battery Recycled Black Powder Industry Sales Model and Sales Channels

10.7.1 Energy Storage Battery Recycled Black Powder Sales Model

10.7.2 Energy Storage Battery Recycled Black Powder Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Energy Storage Battery Recycled Black Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Energy Storage Battery Recycled Black Powder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Energy Storage Battery Recycled Black Powder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Region (2021-2026)

Table 5. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Region (2027-2032)

Table 6. World Energy Storage Battery Recycled Black Powder Production by Region (2021-2026) & (Tons)

Table 7. World Energy Storage Battery Recycled Black Powder Production by Region (2027-2032) & (Tons)

Table 8. World Energy Storage Battery Recycled Black Powder Production Market Share by Region (2021-2026)

Table 9. World Energy Storage Battery Recycled Black Powder Production Market Share by Region (2027-2032)

Table 10. World Energy Storage Battery Recycled Black Powder Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Energy Storage Battery Recycled Black Powder Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Energy Storage Battery Recycled Black Powder Major Market Trends

Table 13. World Energy Storage Battery Recycled Black Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Energy Storage Battery Recycled Black Powder Consumption by Region (2021-2026) & (Tons)

Table 15. World Energy Storage Battery Recycled Black Powder Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Energy Storage Battery Recycled Black Powder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Energy Storage Battery Recycled Black Powder Producers in 2025

Table 18. World Energy Storage Battery Recycled Black Powder Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Energy Storage Battery Recycled Black Powder Producers in 2025

Table 20. World Energy Storage Battery Recycled Black Powder Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Energy Storage Battery Recycled Black Powder Company Evaluation Quadrant

Table 22. World Energy Storage Battery Recycled Black Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Energy Storage Battery Recycled Black Powder Production Site of Key Manufacturer

Table 24. Energy Storage Battery Recycled Black Powder Market: Company Product Type Footprint

Table 25. Energy Storage Battery Recycled Black Powder Market: Company Product Application Footprint

Table 26. Energy Storage Battery Recycled Black Powder Competitive Factors

Table 27. Energy Storage Battery Recycled Black Powder New Entrant and Capacity Expansion Plans

Table 28. Energy Storage Battery Recycled Black Powder Mergers & Acquisitions Activity

Table 29. United States VS China Energy Storage Battery Recycled Black Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Energy Storage Battery Recycled Black Powder Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Energy Storage Battery Recycled Black Powder Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Energy Storage Battery Recycled Black Powder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production Market Share (2021-2026)

Table 37. China Based Energy Storage Battery Recycled Black Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value, (2021-2026) & (USD Million)

- Table 39. China Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Energy Storage Battery Recycled Black Powder Production, (2021-2026) & (Tons)
- Table 41. China Based Manufacturers Energy Storage Battery Recycled Black Powder Production Market Share (2021-2026)
- Table 42. Rest of World Based Energy Storage Battery Recycled Black Powder Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production, (2021-2026) & (Tons)
- Table 46. Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production Market Share (2021-2026)
- Table 47. World Energy Storage Battery Recycled Black Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Energy Storage Battery Recycled Black Powder Production by Type (2021-2026) & (Tons)
- Table 49. World Energy Storage Battery Recycled Black Powder Production by Type (2027-2032) & (Tons)
- Table 50. World Energy Storage Battery Recycled Black Powder Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Energy Storage Battery Recycled Black Powder Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Energy Storage Battery Recycled Black Powder Average Price by Type (2021-2026) & (US\$/Ton)
- Table 53. World Energy Storage Battery Recycled Black Powder Average Price by Type (2027-2032) & (US\$/Ton)
- Table 54. World Energy Storage Battery Recycled Black Powder Production Value by Technology, (USD Million), 2021 & 2025 & 2032
- Table 55. World Energy Storage Battery Recycled Black Powder Production by Technology (2021-2026) & (Tons)
- Table 56. World Energy Storage Battery Recycled Black Powder Production by Technology (2027-2032) & (Tons)
- Table 57. World Energy Storage Battery Recycled Black Powder Production Value by Technology (2021-2026) & (USD Million)
- Table 58. World Energy Storage Battery Recycled Black Powder Production Value by

Technology (2027-2032) & (USD Million)

Table 59. World Energy Storage Battery Recycled Black Powder Average Price by Technology (2021-2026) & (US\$/Ton)

Table 60. World Energy Storage Battery Recycled Black Powder Average Price by Technology (2027-2032) & (US\$/Ton)

Table 61. World Energy Storage Battery Recycled Black Powder Production Value by Acid-insoluble Residue, (USD Million), 2021 & 2025 & 2032

Table 62. World Energy Storage Battery Recycled Black Powder Production by Acid-insoluble Residue (2021-2026) & (Tons)

Table 63. World Energy Storage Battery Recycled Black Powder Production by Acid-insoluble Residue (2027-2032) & (Tons)

Table 64. World Energy Storage Battery Recycled Black Powder Production Value by Acid-insoluble Residue (2021-2026) & (USD Million)

Table 65. World Energy Storage Battery Recycled Black Powder Production Value by Acid-insoluble Residue (2027-2032) & (USD Million)

Table 66. World Energy Storage Battery Recycled Black Powder Average Price by Acid-insoluble Residue (2021-2026) & (US\$/Ton)

Table 67. World Energy Storage Battery Recycled Black Powder Average Price by Acid-insoluble Residue (2027-2032) & (US\$/Ton)

Table 68. World Energy Storage Battery Recycled Black Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Energy Storage Battery Recycled Black Powder Production by Application (2021-2026) & (Tons)

Table 70. World Energy Storage Battery Recycled Black Powder Production by Application (2027-2032) & (Tons)

Table 71. World Energy Storage Battery Recycled Black Powder Production Value by Application (2021-2026) & (USD Million)

Table 72. World Energy Storage Battery Recycled Black Powder Production Value by Application (2027-2032) & (USD Million)

Table 73. World Energy Storage Battery Recycled Black Powder Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Energy Storage Battery Recycled Black Powder Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Brunp Recycling Basic Information, Manufacturing Base and Competitors

Table 76. Brunp Recycling Major Business

Table 77. Brunp Recycling Energy Storage Battery Recycled Black Powder Product and Services

Table 78. Brunp Recycling Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Brunp Recycling Recent Developments/Updates

Table 80. Brunp Recycling Competitive Strengths & Weaknesses

Table 81. Ganfeng Lithium Basic Information, Manufacturing Base and Competitors

Table 82. Ganfeng Lithium Major Business

Table 83. Ganfeng Lithium Energy Storage Battery Recycled Black Powder Product and Services

Table 84. Ganfeng Lithium Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Ganfeng Lithium Recent Developments/Updates

Table 86. Ganfeng Lithium Competitive Strengths & Weaknesses

Table 87. GEM Basic Information, Manufacturing Base and Competitors

Table 88. GEM Major Business

Table 89. GEM Energy Storage Battery Recycled Black Powder Product and Services

Table 90. GEM Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. GEM Recent Developments/Updates

Table 92. GEM Competitive Strengths & Weaknesses

Table 93. Miracle Automation Engineering Basic Information, Manufacturing Base and Competitors

Table 94. Miracle Automation Engineering Major Business

Table 95. Miracle Automation Engineering Energy Storage Battery Recycled Black Powder Product and Services

Table 96. Miracle Automation Engineering Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Miracle Automation Engineering Recent Developments/Updates

Table 98. Miracle Automation Engineering Competitive Strengths & Weaknesses

Table 99. Redwood Materials Basic Information, Manufacturing Base and Competitors

Table 100. Redwood Materials Major Business

Table 101. Redwood Materials Energy Storage Battery Recycled Black Powder Product and Services

Table 102. Redwood Materials Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Redwood Materials Recent Developments/Updates

Table 104. Redwood Materials Competitive Strengths & Weaknesses

- Table 105. Glencore Basic Information, Manufacturing Base and Competitors
- Table 106. Glencore Major Business
- Table 107. Glencore Energy Storage Battery Recycled Black Powder Product and Services
- Table 108. Glencore Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Glencore Recent Developments/Updates
- Table 110. Glencore Competitive Strengths & Weaknesses
- Table 111. Ganzhou Longkai Technology Basic Information, Manufacturing Base and Competitors
- Table 112. Ganzhou Longkai Technology Major Business
- Table 113. Ganzhou Longkai Technology Energy Storage Battery Recycled Black Powder Product and Services
- Table 114. Ganzhou Longkai Technology Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Ganzhou Longkai Technology Recent Developments/Updates
- Table 116. Ganzhou Longkai Technology Competitive Strengths & Weaknesses
- Table 117. Huayou Cobalt Basic Information, Manufacturing Base and Competitors
- Table 118. Huayou Cobalt Major Business
- Table 119. Huayou Cobalt Energy Storage Battery Recycled Black Powder Product and Services
- Table 120. Huayou Cobalt Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Huayou Cobalt Recent Developments/Updates
- Table 122. Huayou Cobalt Competitive Strengths & Weaknesses
- Table 123. Umicore Basic Information, Manufacturing Base and Competitors
- Table 124. Umicore Major Business
- Table 125. Umicore Energy Storage Battery Recycled Black Powder Product and Services
- Table 126. Umicore Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Umicore Recent Developments/Updates
- Table 128. Umicore Competitive Strengths & Weaknesses
- Table 129. SungEel HiTech Basic Information, Manufacturing Base and Competitors
- Table 130. SungEel HiTech Major Business

Table 131. SungEel HiTech Energy Storage Battery Recycled Black Powder Product and Services

Table 132. SungEel HiTech Energy Storage Battery Recycled Black Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SungEel HiTech Recent Developments/Updates

Table 134. SungEel HiTech Competitive Strengths & Weaknesses

Table 135. Global Key Players of Energy Storage Battery Recycled Black Powder Upstream (Raw Materials)

Table 136. Global Energy Storage Battery Recycled Black Powder Typical Customers

Table 137. Energy Storage Battery Recycled Black Powder Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Energy Storage Battery Recycled Black Powder Picture
- Figure 2. World Energy Storage Battery Recycled Black Powder Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Energy Storage Battery Recycled Black Powder Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 5. World Energy Storage Battery Recycled Black Powder Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Region (2021-2032)
- Figure 7. World Energy Storage Battery Recycled Black Powder Production Market Share by Region (2021-2032)
- Figure 8. North America Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 9. Europe Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 10. China Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 11. Japan Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 12. India Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 13. Southeast Asia Energy Storage Battery Recycled Black Powder Production (2021-2032) & (Tons)
- Figure 14. Energy Storage Battery Recycled Black Powder Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)
- Figure 17. World Energy Storage Battery Recycled Black Powder Consumption Market Share by Region (2021-2032)
- Figure 18. United States Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)
- Figure 19. China Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)

Figure 20. Europe Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)

Figure 21. Japan Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)

Figure 22. South Korea Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)

Figure 24. India Energy Storage Battery Recycled Black Powder Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Energy Storage Battery Recycled Black Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Energy Storage Battery Recycled Black Powder Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Energy Storage Battery Recycled Black Powder Markets in 2025

Figure 28. United States VS China: Energy Storage Battery Recycled Black Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Energy Storage Battery Recycled Black Powder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Energy Storage Battery Recycled Black Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Energy Storage Battery Recycled Black Powder Production Market Share 2025

Figure 32. China Based Manufacturers Energy Storage Battery Recycled Black Powder Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Energy Storage Battery Recycled Black Powder Production Market Share 2025

Figure 34. World Energy Storage Battery Recycled Black Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Type in 2025

Figure 36. Ternary Lithium Cathode

Figure 37. LiFePO₄ Cathode

Figure 38. Others

Figure 39. World Energy Storage Battery Recycled Black Powder Production Market Share by Type (2021-2032)

Figure 40. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Type (2021-2032)

Figure 41. World Energy Storage Battery Recycled Black Powder Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World Energy Storage Battery Recycled Black Powder Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 43. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Technology in 2025

Figure 44. Dry Method

Figure 45. Wet Method

Figure 46. Others

Figure 47. World Energy Storage Battery Recycled Black Powder Production Market Share by Technology (2021-2032)

Figure 48. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Technology (2021-2032)

Figure 49. World Energy Storage Battery Recycled Black Powder Average Price by Technology (2021-2032) & (US\$/Ton)

Figure 50. World Energy Storage Battery Recycled Black Powder Production Value by Acid-insoluble Residue, (USD Million), 2021 & 2025 & 2032

Figure 51. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Acid-insoluble Residue in 2025

Figure 52. ? 5.00%

Figure 53. ? 1.00%

Figure 54. World Energy Storage Battery Recycled Black Powder Production Market Share by Acid-insoluble Residue (2021-2032)

Figure 55. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Acid-insoluble Residue (2021-2032)

Figure 56. World Energy Storage Battery Recycled Black Powder Average Price by Acid-insoluble Residue (2021-2032) & (US\$/Ton)

Figure 57. World Energy Storage Battery Recycled Black Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Application in 2025

Figure 59. Power Battery

Figure 60. Consumer Electronics Battery

Figure 61. Energy Storage Battery

Figure 62. Others

Figure 63. World Energy Storage Battery Recycled Black Powder Production Market Share by Application (2021-2032)

Figure 64. World Energy Storage Battery Recycled Black Powder Production Value Market Share by Application (2021-2032)

Figure 65. World Energy Storage Battery Recycled Black Powder Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Energy Storage Battery Recycled Black Powder Industry Chain

Figure 67. Energy Storage Battery Recycled Black Powder Procurement Model

Figure 68. Energy Storage Battery Recycled Black Powder Sales Model

Figure 69. Energy Storage Battery Recycled Black Powder Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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