

Global Power Battery Recycled Electrode Black Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Battery Recycled Electrode Black Powder market size is expected to reach \$ 2494 million by 2032, rising at a market growth of 13.0% CAGR during the forecast period (2026-2032).

Power Battery Recycled Electrode Black Powder refers to the fine particulate mixture rich in valuable metals such as lithium, nickel, cobalt, and manganese, obtained after end-of-life power batteries undergo discharge, dismantling, shredding, and multi-stage physical separation processes that specifically isolate and concentrate active materials from cathode and anode electrodes while removing casings, separators, and copper/aluminum current collectors. As a critical intermediate feedstock for hydrometallurgical refining or direct material regeneration, this product achieved a capacity utilization rate of 73% and an average industry gross margin of approximately 50% in 2025. Its upstream segment comprises specialized battery recycling equipment manufacturers, with representative suppliers including STEINERT GmbH (Germany), Batrium (Switzerland), Zhejiang Tianchang Intelligent Manufacturing Co., Ltd., and the Equipment Division of Brunp Recycling Technology Co., Ltd. The midstream focuses on the production, compositional tuning, and deep impurity removal of electrode black powder through core processes such as precision shredding, pyrolysis, sieving, and elemental enrichment. Downstream, it is primarily used in the regenerated manufacturing of cathode materials for traction and energy storage batteries, with key customers including CATL, BYD, LG Energy Solution, and Tesla. In 2025, production was approximately 215,000 tons at an average price of USD 4,800 per ton.

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 Power Battery Recycled Electrode Black Powder production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Power Battery Recycled Electrode 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 Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Battery Recycled Electrode Black Powder Market, Segmentation by Type:

Ternary Lithium Cathode

LiFePO₄ Cathode

Others

Global Power Battery Recycled Electrode Black Powder Market, Segmentation by Technology:

Dry Method

Wet Method

Others

Global Power Battery Recycled Electrode Black Powder Market, Segmentation by Acid-insoluble Residue:

? 5.00%

? 1.00%

Global Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder market?
2. What is the demand of the global Power Battery Recycled Electrode Black Powder market?
3. What is the year over year growth of the global Power Battery Recycled Electrode Black Powder market?
4. What is the production and production value of the global Power Battery Recycled Electrode Black Powder market?
5. Who are the key producers in the global Power Battery Recycled Electrode Black Powder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 CO2 Gas Revert Recovery Systems Introduction
- 1.2 World CO2 Gas Revert Recovery Systems Supply & Forecast
 - 1.2.1 World CO2 Gas Revert Recovery Systems Production Value (2021 & 2025 & 2032)
 - 1.2.2 World CO2 Gas Revert Recovery Systems Production (2021-2032)
 - 1.2.3 World CO2 Gas Revert Recovery Systems Pricing Trends (2021-2032)
- 1.3 World CO2 Gas Revert Recovery Systems Production by Region (Based on Production Site)
 - 1.3.1 World CO2 Gas Revert Recovery Systems Production Value by Region (2021-2032)
 - 1.3.2 World CO2 Gas Revert Recovery Systems Production by Region (2021-2032)
 - 1.3.3 World CO2 Gas Revert Recovery Systems Average Price by Region (2021-2032)
 - 1.3.4 North America CO2 Gas Revert Recovery Systems Production (2021-2032)
 - 1.3.5 Europe CO2 Gas Revert Recovery Systems Production (2021-2032)
 - 1.3.6 China CO2 Gas Revert Recovery Systems Production (2021-2032)
 - 1.3.7 Japan CO2 Gas Revert Recovery Systems Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 CO2 Gas Revert Recovery Systems Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 CO2 Gas Revert Recovery Systems Major Market Trends

2 DEMAND SUMMARY

- 2.1 World CO2 Gas Revert Recovery Systems Demand (2021-2032)
- 2.2 World CO2 Gas Revert Recovery Systems Consumption by Region
 - 2.2.1 World CO2 Gas Revert Recovery Systems Consumption by Region (2021-2026)
 - 2.2.2 World CO2 Gas Revert Recovery Systems Consumption Forecast by Region (2027-2032)
- 2.3 United States CO2 Gas Revert Recovery Systems Consumption (2021-2032)
- 2.4 China CO2 Gas Revert Recovery Systems Consumption (2021-2032)
- 2.5 Europe CO2 Gas Revert Recovery Systems Consumption (2021-2032)
- 2.6 Japan CO2 Gas Revert Recovery Systems Consumption (2021-2032)
- 2.7 South Korea CO2 Gas Revert Recovery Systems Consumption (2021-2032)
- 2.8 ASEAN CO2 Gas Revert Recovery Systems Consumption (2021-2032)

2.9 India CO2 Gas Revert Recovery Systems Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World CO2 Gas Revert Recovery Systems Production Value by Manufacturer (2021-2026)

3.2 World CO2 Gas Revert Recovery Systems Production by Manufacturer (2021-2026)

3.3 World CO2 Gas Revert Recovery Systems Average Price by Manufacturer (2021-2026)

3.4 CO2 Gas Revert Recovery Systems Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global CO2 Gas Revert Recovery Systems Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for CO2 Gas Revert Recovery Systems in 2025

3.5.3 Global Concentration Ratios (CR8) for CO2 Gas Revert Recovery Systems in 2025

3.6 CO2 Gas Revert Recovery Systems Market: Overall Company Footprint Analysis

3.6.1 CO2 Gas Revert Recovery Systems Market: Region Footprint

3.6.2 CO2 Gas Revert Recovery Systems Market: Company Product Type Footprint

3.6.3 CO2 Gas Revert Recovery Systems 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: CO2 Gas Revert Recovery Systems Production Value Comparison

4.1.1 United States VS China: CO2 Gas Revert Recovery Systems Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: CO2 Gas Revert Recovery Systems Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: CO2 Gas Revert Recovery Systems Production Comparison

4.2.1 United States VS China: CO2 Gas Revert Recovery Systems Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: CO2 Gas Revert Recovery Systems Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: CO2 Gas Revert Recovery Systems Consumption Comparison

4.3.1 United States VS China: CO2 Gas Revert Recovery Systems Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: CO2 Gas Revert Recovery Systems Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based CO2 Gas Revert Recovery Systems Manufacturers and Market Share, 2021-2026

4.4.1 United States Based CO2 Gas Revert Recovery Systems Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers CO2 Gas Revert Recovery Systems Production Value (2021-2026)

4.4.3 United States Based Manufacturers CO2 Gas Revert Recovery Systems Production (2021-2026)

4.5 China Based CO2 Gas Revert Recovery Systems Manufacturers and Market Share

4.5.1 China Based CO2 Gas Revert Recovery Systems Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers CO2 Gas Revert Recovery Systems Production Value (2021-2026)

4.5.3 China Based Manufacturers CO2 Gas Revert Recovery Systems Production (2021-2026)

4.6 Rest of World Based CO2 Gas Revert Recovery Systems Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based CO2 Gas Revert Recovery Systems Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers CO2 Gas Revert Recovery Systems Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers CO2 Gas Revert Recovery Systems Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World CO2 Gas Revert Recovery Systems Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

- 5.2.1 Chemical Absorption
- 5.2.2 Physical Adsorption
- 5.2.3 Membrane Separation
- 5.2.4 Compression and Condensation
- 5.2.5 Others

5.3 Market Segment by Type

- 5.3.1 World CO₂ Gas Revert Recovery Systems Production by Type (2021-2032)
- 5.3.2 World CO₂ Gas Revert Recovery Systems Production Value by Type (2021-2032)
- 5.3.3 World CO₂ Gas Revert Recovery Systems Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM FACTOR

6.1 World CO₂ Gas Revert Recovery Systems Market Size Overview by Form Factor: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Form Factor

- 6.2.1 Stationary
- 6.2.2 Mobile

6.3 Market Segment by Form Factor

- 6.3.1 World CO₂ Gas Revert Recovery Systems Production by Form Factor (2021-2032)
- 6.3.2 World CO₂ Gas Revert Recovery Systems Production Value by Form Factor (2021-2032)
- 6.3.3 World CO₂ Gas Revert Recovery Systems Average Price by Form Factor (2021-2032)

7 MARKET ANALYSIS BY INLET CO₂ CONCENTRATION

7.1 World CO₂ Gas Revert Recovery Systems Market Size Overview by Inlet CO₂ Concentration: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Inlet CO₂ Concentration

- 7.2.1 High Concentration
- 7.2.2 Low Concentration

7.3 Market Segment by Inlet CO₂ Concentration

- 7.3.1 World CO₂ Gas Revert Recovery Systems Production by Inlet CO₂ Concentration (2021-2032)
- 7.3.2 World CO₂ Gas Revert Recovery Systems Production Value by Inlet CO₂ Concentration (2021-2032)
- 7.3.3 World CO₂ Gas Revert Recovery Systems Average Price by Inlet CO₂

Concentration (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World CO₂ Gas Revert Recovery Systems Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Flue Gas CO₂ Recovery (SGR)

8.2.2 Process/By-product Gas CO₂ Recovery (BPR)

8.2.3 Dry Ice Production and Related CO₂ Recovery

8.2.4 Fermentation and Food and Beverage CO₂ Recovery

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World CO₂ Gas Revert Recovery Systems Production by Application
(2021-2032)

8.3.2 World CO₂ Gas Revert Recovery Systems Production Value by Application
(2021-2032)

8.3.3 World CO₂ Gas Revert Recovery Systems Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Asco Carbon Dioxide

9.1.1 Asco Carbon Dioxide Details

9.1.2 Asco Carbon Dioxide Major Business

9.1.3 Asco Carbon Dioxide CO₂ Gas Revert Recovery Systems Product and Services

9.1.4 Asco Carbon Dioxide CO₂ Gas Revert Recovery Systems Production, Price,
Value, Gross Margin and Market Share (2021-2026)

9.1.5 Asco Carbon Dioxide Recent Developments/Updates

9.1.6 Asco Carbon Dioxide Competitive Strengths & Weaknesses

9.2 Mitsubishi Heavy Industries

9.2.1 Mitsubishi Heavy Industries Details

9.2.2 Mitsubishi Heavy Industries Major Business

9.2.3 Mitsubishi Heavy Industries CO₂ Gas Revert Recovery Systems Product and
Services

9.2.4 Mitsubishi Heavy Industries CO₂ Gas Revert Recovery Systems Production,
Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Mitsubishi Heavy Industries Recent Developments/Updates

9.2.6 Mitsubishi Heavy Industries Competitive Strengths & Weaknesses

9.3 Bright Biomethane

9.3.1 Bright Biomethane Details

9.3.2 Bright Biomethane Major Business

9.3.3 Bright Biomethane CO₂ Gas Revert Recovery Systems Product and Services

9.3.4 Bright Biomethane CO₂ Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Bright Biomethane Recent Developments/Updates

9.3.6 Bright Biomethane Competitive Strengths & Weaknesses

9.4 GEA

9.4.1 GEA Details

9.4.2 GEA Major Business

9.4.3 GEA CO₂ Gas Revert Recovery Systems Product and Services

9.4.4 GEA CO₂ Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 GEA Recent Developments/Updates

9.4.6 GEA Competitive Strengths & Weaknesses

9.5 Linde Engineering

9.5.1 Linde Engineering Details

9.5.2 Linde Engineering Major Business

9.5.3 Linde Engineering CO₂ Gas Revert Recovery Systems Product and Services

9.5.4 Linde Engineering CO₂ Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Linde Engineering Recent Developments/Updates

9.5.6 Linde Engineering Competitive Strengths & Weaknesses

9.6 Sumitomo Seika

9.6.1 Sumitomo Seika Details

9.6.2 Sumitomo Seika Major Business

9.6.3 Sumitomo Seika CO₂ Gas Revert Recovery Systems Product and Services

9.6.4 Sumitomo Seika CO₂ Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Sumitomo Seika Recent Developments/Updates

9.6.6 Sumitomo Seika Competitive Strengths & Weaknesses

9.7 Shell Cansolv

9.7.1 Shell Cansolv Details

9.7.2 Shell Cansolv Major Business

9.7.3 Shell Cansolv CO₂ Gas Revert Recovery Systems Product and Services

9.7.4 Shell Cansolv CO₂ Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Shell Cansolv Recent Developments/Updates

- 9.7.6 Shell Cansolv Competitive Strengths & Weaknesses
- 9.8 Cold Jet
 - 9.8.1 Cold Jet Details
 - 9.8.2 Cold Jet Major Business
 - 9.8.3 Cold Jet CO2 Gas Revert Recovery Systems Product and Services
 - 9.8.4 Cold Jet CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Cold Jet Recent Developments/Updates
 - 9.8.6 Cold Jet Competitive Strengths & Weaknesses
- 9.9 Kinder Morgan
 - 9.9.1 Kinder Morgan Details
 - 9.9.2 Kinder Morgan Major Business
 - 9.9.3 Kinder Morgan CO2 Gas Revert Recovery Systems Product and Services
 - 9.9.4 Kinder Morgan CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Kinder Morgan Recent Developments/Updates
 - 9.9.6 Kinder Morgan Competitive Strengths & Weaknesses
- 9.10 Fluor Corporation
 - 9.10.1 Fluor Corporation Details
 - 9.10.2 Fluor Corporation Major Business
 - 9.10.3 Fluor Corporation CO2 Gas Revert Recovery Systems Product and Services
 - 9.10.4 Fluor Corporation CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Fluor Corporation Recent Developments/Updates
 - 9.10.6 Fluor Corporation Competitive Strengths & Weaknesses
- 9.11 Gulf Cryo
 - 9.11.1 Gulf Cryo Details
 - 9.11.2 Gulf Cryo Major Business
 - 9.11.3 Gulf Cryo CO2 Gas Revert Recovery Systems Product and Services
 - 9.11.4 Gulf Cryo CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Gulf Cryo Recent Developments/Updates
 - 9.11.6 Gulf Cryo Competitive Strengths & Weaknesses
- 9.12 Super Cryogenic Systems
 - 9.12.1 Super Cryogenic Systems Details
 - 9.12.2 Super Cryogenic Systems Major Business
 - 9.12.3 Super Cryogenic Systems CO2 Gas Revert Recovery Systems Product and Services
 - 9.12.4 Super Cryogenic Systems CO2 Gas Revert Recovery Systems Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Super Cryogenic Systems Recent Developments/Updates

9.12.6 Super Cryogenic Systems Competitive Strengths & Weaknesses

9.13 Pentair Haffmans

9.13.1 Pentair Haffmans Details

9.13.2 Pentair Haffmans Major Business

9.13.3 Pentair Haffmans CO2 Gas Revert Recovery Systems Product and Services

9.13.4 Pentair Haffmans CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Pentair Haffmans Recent Developments/Updates

9.13.6 Pentair Haffmans Competitive Strengths & Weaknesses

9.14 Chart Industries

9.14.1 Chart Industries Details

9.14.2 Chart Industries Major Business

9.14.3 Chart Industries CO2 Gas Revert Recovery Systems Product and Services

9.14.4 Chart Industries CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Chart Industries Recent Developments/Updates

9.14.6 Chart Industries Competitive Strengths & Weaknesses

9.15 Air Water

9.15.1 Air Water Details

9.15.2 Air Water Major Business

9.15.3 Air Water CO2 Gas Revert Recovery Systems Product and Services

9.15.4 Air Water CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Air Water Recent Developments/Updates

9.15.6 Air Water Competitive Strengths & Weaknesses

9.16 Taiyo Nippon Sanso

9.16.1 Taiyo Nippon Sanso Details

9.16.2 Taiyo Nippon Sanso Major Business

9.16.3 Taiyo Nippon Sanso CO2 Gas Revert Recovery Systems Product and Services

9.16.4 Taiyo Nippon Sanso CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Taiyo Nippon Sanso Recent Developments/Updates

9.16.6 Taiyo Nippon Sanso Competitive Strengths & Weaknesses

9.17 JFE Engineering

9.17.1 JFE Engineering Details

9.17.2 JFE Engineering Major Business

9.17.3 JFE Engineering CO2 Gas Revert Recovery Systems Product and Services

- 9.17.4 JFE Engineering CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 JFE Engineering Recent Developments/Updates
- 9.17.6 JFE Engineering Competitive Strengths & Weaknesses
- 9.18 Mitsubishi Kakoki
 - 9.18.1 Mitsubishi Kakoki Details
 - 9.18.2 Mitsubishi Kakoki Major Business
 - 9.18.3 Mitsubishi Kakoki CO2 Gas Revert Recovery Systems Product and Services
 - 9.18.4 Mitsubishi Kakoki CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Mitsubishi Kakoki Recent Developments/Updates
 - 9.18.6 Mitsubishi Kakoki Competitive Strengths & Weaknesses
- 9.19 JCCL
 - 9.19.1 JCCL Details
 - 9.19.2 JCCL Major Business
 - 9.19.3 JCCL CO2 Gas Revert Recovery Systems Product and Services
 - 9.19.4 JCCL CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 JCCL Recent Developments/Updates
 - 9.19.6 JCCL Competitive Strengths & Weaknesses
- 9.20 Kawasaki Heavy Industries
 - 9.20.1 Kawasaki Heavy Industries Details
 - 9.20.2 Kawasaki Heavy Industries Major Business
 - 9.20.3 Kawasaki Heavy Industries CO2 Gas Revert Recovery Systems Product and Services
 - 9.20.4 Kawasaki Heavy Industries CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Kawasaki Heavy Industries Recent Developments/Updates
 - 9.20.6 Kawasaki Heavy Industries Competitive Strengths & Weaknesses
- 9.21 PRODEVAL
 - 9.21.1 PRODEVAL Details
 - 9.21.2 PRODEVAL Major Business
 - 9.21.3 PRODEVAL CO2 Gas Revert Recovery Systems Product and Services
 - 9.21.4 PRODEVAL CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 PRODEVAL Recent Developments/Updates
 - 9.21.6 PRODEVAL Competitive Strengths & Weaknesses
- 9.22 Steinecker
 - 9.22.1 Steinecker Details

- 9.22.2 Steinecker Major Business
- 9.22.3 Steinecker CO2 Gas Revert Recovery Systems Product and Services
- 9.22.4 Steinecker CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.22.5 Steinecker Recent Developments/Updates
- 9.22.6 Steinecker Competitive Strengths & Weaknesses
- 9.23 Mellcon Engineers Pvt.
 - 9.23.1 Mellcon Engineers Pvt. Details
 - 9.23.2 Mellcon Engineers Pvt. Major Business
 - 9.23.3 Mellcon Engineers Pvt. CO2 Gas Revert Recovery Systems Product and Services
 - 9.23.4 Mellcon Engineers Pvt. CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 Mellcon Engineers Pvt. Recent Developments/Updates
 - 9.23.6 Mellcon Engineers Pvt. Competitive Strengths & Weaknesses
- 9.24 Ashirwad Carbonics (India) Pvt Ltd.
 - 9.24.1 Ashirwad Carbonics (India) Pvt Ltd. Details
 - 9.24.2 Ashirwad Carbonics (India) Pvt Ltd. Major Business
 - 9.24.3 Ashirwad Carbonics (India) Pvt Ltd. CO2 Gas Revert Recovery Systems Product and Services
 - 9.24.4 Ashirwad Carbonics (India) Pvt Ltd. CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Ashirwad Carbonics (India) Pvt Ltd. Recent Developments/Updates
 - 9.24.6 Ashirwad Carbonics (India) Pvt Ltd. Competitive Strengths & Weaknesses
- 9.25 COMTECSWISS AG
 - 9.25.1 COMTECSWISS AG Details
 - 9.25.2 COMTECSWISS AG Major Business
 - 9.25.3 COMTECSWISS AG CO2 Gas Revert Recovery Systems Product and Services
 - 9.25.4 COMTECSWISS AG CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 COMTECSWISS AG Recent Developments/Updates
 - 9.25.6 COMTECSWISS AG Competitive Strengths & Weaknesses
- 9.26 Separeco
 - 9.26.1 Separeco Details
 - 9.26.2 Separeco Major Business
 - 9.26.3 Separeco CO2 Gas Revert Recovery Systems Product and Services
 - 9.26.4 Separeco CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.26.5 Separeco Recent Developments/Updates

- 9.26.6 Separeco Competitive Strengths & Weaknesses
- 9.27 Supercryo
 - 9.27.1 Supercryo Details
 - 9.27.2 Supercryo Major Business
 - 9.27.3 Supercryo CO2 Gas Revert Recovery Systems Product and Services
 - 9.27.4 Supercryo CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 Supercryo Recent Developments/Updates
 - 9.27.6 Supercryo Competitive Strengths & Weaknesses
- 9.28 Solveno Technologies
 - 9.28.1 Solveno Technologies Details
 - 9.28.2 Solveno Technologies Major Business
 - 9.28.3 Solveno Technologies CO2 Gas Revert Recovery Systems Product and Services
 - 9.28.4 Solveno Technologies CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.28.5 Solveno Technologies Recent Developments/Updates
 - 9.28.6 Solveno Technologies Competitive Strengths & Weaknesses
- 9.29 Steinecker GmbH
 - 9.29.1 Steinecker GmbH Details
 - 9.29.2 Steinecker GmbH Major Business
 - 9.29.3 Steinecker GmbH CO2 Gas Revert Recovery Systems Product and Services
 - 9.29.4 Steinecker GmbH CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.29.5 Steinecker GmbH Recent Developments/Updates
 - 9.29.6 Steinecker GmbH Competitive Strengths & Weaknesses
- 9.30 Tecno Project Industriale
 - 9.30.1 Tecno Project Industriale Details
 - 9.30.2 Tecno Project Industriale Major Business
 - 9.30.3 Tecno Project Industriale CO2 Gas Revert Recovery Systems Product and Services
 - 9.30.4 Tecno Project Industriale CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.30.5 Tecno Project Industriale Recent Developments/Updates
 - 9.30.6 Tecno Project Industriale Competitive Strengths & Weaknesses
- 9.31 Corosys
 - 9.31.1 Corosys Details
 - 9.31.2 Corosys Major Business
 - 9.31.3 Corosys CO2 Gas Revert Recovery Systems Product and Services

9.31.4 Corosys CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.31.5 Corosys Recent Developments/Updates

9.31.6 Corosys Competitive Strengths & Weaknesses

9.32 Hypro

9.32.1 Hypro Details

9.32.2 Hypro Major Business

9.32.3 Hypro CO2 Gas Revert Recovery Systems Product and Services

9.32.4 Hypro CO2 Gas Revert Recovery Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.32.5 Hypro Recent Developments/Updates

9.32.6 Hypro Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 CO2 Gas Revert Recovery Systems Industry Chain

10.2 CO2 Gas Revert Recovery Systems Upstream Analysis

10.2.1 CO2 Gas Revert Recovery Systems Core Raw Materials

10.2.2 Main Manufacturers of CO2 Gas Revert Recovery Systems Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 CO2 Gas Revert Recovery Systems Production Mode

10.6 CO2 Gas Revert Recovery Systems Procurement Model

10.7 CO2 Gas Revert Recovery Systems Industry Sales Model and Sales Channels

10.7.1 CO2 Gas Revert Recovery Systems Sales Model

10.7.2 CO2 Gas Revert Recovery Systems 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 Power Battery Recycled Electrode Black Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

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

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

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

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

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

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

Table 12. Power Battery Recycled Electrode Black Powder Major Market Trends

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

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

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

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

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

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

Table 19. Production Market Share of Key Power Battery Recycled Electrode Black Powder Producers in 2025

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

Table 21. Global Power Battery Recycled Electrode Black Powder Company Evaluation Quadrant

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

Table 23. Head Office and Power Battery Recycled Electrode Black Powder Production Site of Key Manufacturer

Table 24. Power Battery Recycled Electrode Black Powder Market: Company Product Type Footprint

Table 25. Power Battery Recycled Electrode Black Powder Market: Company Product Application Footprint

Table 26. Power Battery Recycled Electrode Black Powder Competitive Factors

Table 27. Power Battery Recycled Electrode Black Powder New Entrant and Capacity Expansion Plans

Table 28. Power Battery Recycled Electrode Black Powder Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

Table 39. China Based Manufacturers Power Battery Recycled Electrode Black Powder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Power Battery Recycled Electrode Black Powder Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Power Battery Recycled Electrode Black Powder Production Market Share (2021-2026)

Table 42. Rest of World Based Power Battery Recycled Electrode Black Powder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Power Battery Recycled Electrode Black Powder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Power Battery Recycled Electrode Black Powder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Power Battery Recycled Electrode Black Powder Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Power Battery Recycled Electrode Black Powder Production Market Share (2021-2026)

Table 47. World Power Battery Recycled Electrode Black Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Power Battery Recycled Electrode Black Powder Production by Type (2021-2026) & (Tons)

Table 49. World Power Battery Recycled Electrode Black Powder Production by Type (2027-2032) & (Tons)

Table 50. World Power Battery Recycled Electrode Black Powder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Power Battery Recycled Electrode Black Powder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Power Battery Recycled Electrode Black Powder Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Power Battery Recycled Electrode Black Powder Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Power Battery Recycled Electrode Black Powder Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Power Battery Recycled Electrode Black Powder Production by Technology (2021-2026) & (Tons)

Table 56. World Power Battery Recycled Electrode Black Powder Production by Technology (2027-2032) & (Tons)

Table 57. World Power Battery Recycled Electrode Black Powder Production Value by Technology (2021-2026) & (USD Million)

Table 58. World Power Battery Recycled Electrode Black Powder Production Value by

Technology (2027-2032) & (USD Million)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 74. World Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 78. Brunp Recycling Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 84. Ganfeng Lithium Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 90. GEM Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 96. Miracle Automation Engineering Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 102. Redwood Materials Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 108. Glencore Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 114. Ganzhou Longkai Technology Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 120. Huayou Cobalt Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 126. Umicore Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Product and Services

Table 132. SungEel HiTech Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Upstream (Raw Materials)

Table 136. Global Power Battery Recycled Electrode Black Powder Typical Customers

Table 137. Power Battery Recycled Electrode Black Powder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Power Battery Recycled Electrode Black Powder Picture

Figure 2. World Power Battery Recycled Electrode Black Powder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Power Battery Recycled Electrode Black Powder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 5. World Power Battery Recycled Electrode Black Powder Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Power Battery Recycled Electrode Black Powder Production Value Market Share by Region (2021-2032)

Figure 7. World Power Battery Recycled Electrode Black Powder Production Market Share by Region (2021-2032)

Figure 8. North America Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 9. Europe Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 10. China Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 11. Japan Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 12. India Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 13. Southeast Asia Power Battery Recycled Electrode Black Powder Production (2021-2032) & (Tons)

Figure 14. Power Battery Recycled Electrode Black Powder Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Power Battery Recycled Electrode Black Powder Consumption (2021-2032) & (Tons)

Figure 17. World Power Battery Recycled Electrode Black Powder Consumption Market Share by Region (2021-2032)

Figure 18. United States Power Battery Recycled Electrode Black Powder Consumption (2021-2032) & (Tons)

Figure 19. China Power Battery Recycled Electrode Black Powder Consumption (2021-2032) & (Tons)

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

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

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

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

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

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

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

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

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

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

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

Figure 31. United States Based Manufacturers Power Battery Recycled Electrode Black Powder Production Market Share 2025

Figure 32. China Based Manufacturers Power Battery Recycled Electrode Black Powder Production Market Share 2025

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

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

Figure 35. World Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Production Market Share by Type (2021-2032)

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

- Figure 41. World Power Battery Recycled Electrode Black Powder Average Price by Type (2021-2032) & (US\$/Ton)
- Figure 42. World Power Battery Recycled Electrode Black Powder Production Value by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 43. World Power Battery Recycled Electrode Black Powder Production Value Market Share by Technology in 2025
- Figure 44. Dry Method
- Figure 45. Wet Method
- Figure 46. Others
- Figure 47. World Power Battery Recycled Electrode Black Powder Production Market Share by Technology (2021-2032)
- Figure 48. World Power Battery Recycled Electrode Black Powder Production Value Market Share by Technology (2021-2032)
- Figure 49. World Power Battery Recycled Electrode Black Powder Average Price by Technology (2021-2032) & (US\$/Ton)
- Figure 50. World Power Battery Recycled Electrode Black Powder Production Value by Acid-insoluble Residue, (USD Million), 2021 & 2025 & 2032
- Figure 51. World Power Battery Recycled Electrode Black Powder Production Value Market Share by Acid-insoluble Residue in 2025
- Figure 52. ? 5.00%
- Figure 53. ? 1.00%
- Figure 54. World Power Battery Recycled Electrode Black Powder Production Market Share by Acid-insoluble Residue (2021-2032)
- Figure 55. World Power Battery Recycled Electrode Black Powder Production Value Market Share by Acid-insoluble Residue (2021-2032)
- Figure 56. World Power Battery Recycled Electrode Black Powder Average Price by Acid-insoluble Residue (2021-2032) & (US\$/Ton)
- Figure 57. World Power Battery Recycled Electrode Black Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 58. World Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder Production Market Share by Application (2021-2032)
- Figure 64. World Power Battery Recycled Electrode Black Powder Production Value Market Share by Application (2021-2032)

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

Figure 66. Power Battery Recycled Electrode Black Powder Industry Chain

Figure 67. Power Battery Recycled Electrode Black Powder Procurement Model

Figure 68. Power Battery Recycled Electrode Black Powder Sales Model

Figure 69. Power Battery Recycled Electrode Black Powder Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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