

Global LCO Battery Electrode Recycled Black Mass Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global LCO Battery Electrode Recycled Black Mass market size was valued at US\$ 206 million in 2025 and is forecast to a readjusted size of US\$ 427 million by 2032 with a CAGR of 10.7% during review period.

LCO Battery Electrode Recycled Black Mass is a cobalt-rich intermediate material generated by recycling lithium cobalt oxide battery electrodes through dedicated electrode stripping, mechanical separation, and thermal pretreatment processes. Compared with whole-battery recycling, it features higher cobalt concentration, lower impurity levels, and more consistent chemistry, making it especially suitable for downstream hydrometallurgical refining and closed-loop regeneration of battery-grade materials. Its advantages include superior metal grade, predictable quality, higher refining efficiency, and strong economic attractiveness in professional recycling systems. In 2025, the industry's capacity utilization rate was about 60%, and the average gross margin was approximately 45%. In 2025, production reached 11,111 tons at an average price of US\$18,000 per ton. Upstream, the supply chain is mainly supported by core crushing, electrode separation, sorting, and pyrolysis equipment, with representative equipment providers including Metso, ANDRITZ, and Outotec. The midstream focuses on electrode dismantling, binder removal, physical separation, thermal treatment, and standardized black mass preparation, where process stability and cobalt recovery efficiency define product competitiveness. Downstream demand primarily comes from automotive batteries and energy storage batteries, with representative customers including CATL, BYD, Panasonic, LG Energy Solution, and Samsung SDI.

This report is a detailed and comprehensive analysis for global LCO Battery Electrode Recycled Black Mass market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global LCO Battery Electrode Recycled Black Mass market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global LCO Battery Electrode Recycled Black Mass market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global LCO Battery Electrode Recycled Black Mass market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global LCO Battery Electrode Recycled Black Mass market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for LCO Battery Electrode Recycled Black Mass
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global LCO Battery Electrode Recycled Black Mass market based on the following parameters - company overview, sales quantity, revenue, 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, CNGR Advanced Material, Zhejiang Guanghua Technology, Redwood Materials, Glencore, Ganzhou Longkai Technology, Huayou Cobalt, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

LCO Battery Electrode Recycled Black Mass market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Particle Size?50?m

50?Particle Size?100?m

Others

Market segment by Technology

Pyrometallurgical Smelting

Hydrometallurgical Recovery

Market segment by Content

20%? Co?35%

Co?35%

Market segment by Application

Power Battery

Energy Storage Battery

Others

Major players covered

Brunp Recycling

Ganfeng Lithium

GEM

Miracle Automation Engineering

CNGR Advanced Material

Zhejiang Guanghua Technology

Redwood Materials

Glencore

Ganzhou Longkai Technology

Huayou Cobalt

Umicore

SungEel HiTech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe LCO Battery Electrode Recycled Black Mass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LCO Battery Electrode Recycled Black Mass, with price, sales quantity, revenue, and global market share of LCO Battery Electrode Recycled Black Mass from 2021 to 2026.

Chapter 3, the LCO Battery Electrode Recycled Black Mass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LCO Battery Electrode Recycled Black Mass breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and LCO Battery Electrode Recycled Black Mass market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LCO Battery Electrode Recycled Black Mass.

Chapter 14 and 15, to describe LCO Battery Electrode Recycled Black Mass sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of InP-Based Electro-Absorption Modulated Laser by Type

1.3.1 Overview: Global InP-Based Electro-Absorption Modulated Laser Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global InP-Based Electro-Absorption Modulated Laser Consumption Value Market Share by Type in 2025

1.3.3 25–28 Gbps

1.3.4 50 Gbps

1.3.5 100 Gbps and Above

1.3.6 Others

1.4 Classification of InP-Based Electro-Absorption Modulated Laser by Wavelength Band

1.4.1 Overview: Global InP-Based Electro-Absorption Modulated Laser Market Size by Wavelength Band: 2021 Versus 2025 Versus 2032

1.4.2 Global InP-Based Electro-Absorption Modulated Laser Consumption Value Market Share by Wavelength Band in 2025

1.4.3 O-Band

1.4.4 C-Band

1.4.5 L-Band

1.5 Classification of InP-Based Electro-Absorption Modulated Laser by Cooling Method

1.5.1 Overview: Global InP-Based Electro-Absorption Modulated Laser Market Size by Cooling Method: 2021 Versus 2025 Versus 2032

1.5.2 Global InP-Based Electro-Absorption Modulated Laser Consumption Value Market Share by Cooling Method in 2025

1.5.3 Cooled

1.5.4 Uncooled

1.6 Global InP-Based Electro-Absorption Modulated Laser Market by Application

1.6.1 Overview: Global InP-Based Electro-Absorption Modulated Laser Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Long-distance Telecommunication Network

1.6.3 Metropolitan Area Network

1.6.4 Data Center Interconnection (DCI Network)

1.7 Global InP-Based Electro-Absorption Modulated Laser Market Size & Forecast

1.8 Global InP-Based Electro-Absorption Modulated Laser Market Size and Forecast by

Region

1.8.1 Global InP-Based Electro-Absorption Modulated Laser Market Size by Region: 2021 VS 2025 VS 2032

1.8.2 Global InP-Based Electro-Absorption Modulated Laser Market Size by Region, (2021-2032)

1.8.3 North America InP-Based Electro-Absorption Modulated Laser Market Size and Prospect (2021-2032)

1.8.4 Europe InP-Based Electro-Absorption Modulated Laser Market Size and Prospect (2021-2032)

1.8.5 Asia-Pacific InP-Based Electro-Absorption Modulated Laser Market Size and Prospect (2021-2032)

1.8.6 South America InP-Based Electro-Absorption Modulated Laser Market Size and Prospect (2021-2032)

1.8.7 Middle East & Africa InP-Based Electro-Absorption Modulated Laser Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Lumentum

2.1.1 Lumentum Details

2.1.2 Lumentum Major Business

2.1.3 Lumentum InP-Based Electro-Absorption Modulated Laser Product and Solutions

2.1.4 Lumentum InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Lumentum Recent Developments and Future Plans

2.2 Coherent

2.2.1 Coherent Details

2.2.2 Coherent Major Business

2.2.3 Coherent InP-Based Electro-Absorption Modulated Laser Product and Solutions

2.2.4 Coherent InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Coherent Recent Developments and Future Plans

2.3 Broadcom

2.3.1 Broadcom Details

2.3.2 Broadcom Major Business

2.3.3 Broadcom InP-Based Electro-Absorption Modulated Laser Product and Solutions

2.3.4 Broadcom InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)

- 2.3.5 Broadcom Recent Developments and Future Plans
- 2.4 Source Photonics
 - 2.4.1 Source Photonics Details
 - 2.4.2 Source Photonics Major Business
 - 2.4.3 Source Photonics InP-Based Electro-Absorption Modulated Laser Product and Solutions
 - 2.4.4 Source Photonics InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Source Photonics Recent Developments and Future Plans
- 2.5 Mitsubishi Electric
 - 2.5.1 Mitsubishi Electric Details
 - 2.5.2 Mitsubishi Electric Major Business
 - 2.5.3 Mitsubishi Electric InP-Based Electro-Absorption Modulated Laser Product and Solutions
 - 2.5.4 Mitsubishi Electric InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Mitsubishi Electric Recent Developments and Future Plans
- 2.6 Sumitomo
 - 2.6.1 Sumitomo Details
 - 2.6.2 Sumitomo Major Business
 - 2.6.3 Sumitomo InP-Based Electro-Absorption Modulated Laser Product and Solutions
 - 2.6.4 Sumitomo InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Sumitomo Recent Developments and Future Plans
- 2.7 Applied Optoelectronics
 - 2.7.1 Applied Optoelectronics Details
 - 2.7.2 Applied Optoelectronics Major Business
 - 2.7.3 Applied Optoelectronics InP-Based Electro-Absorption Modulated Laser Product and Solutions
 - 2.7.4 Applied Optoelectronics InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Applied Optoelectronics Recent Developments and Future Plans
- 2.8 NTT Electronics
 - 2.8.1 NTT Electronics Details
 - 2.8.2 NTT Electronics Major Business
 - 2.8.3 NTT Electronics InP-Based Electro-Absorption Modulated Laser Product and Solutions
 - 2.8.4 NTT Electronics InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)

- 2.8.5 NTT Electronics Recent Developments and Future Plans
- 2.9 Yuanjie Semiconductor Technology
 - 2.9.1 Yuanjie Semiconductor Technology Details
 - 2.9.2 Yuanjie Semiconductor Technology Major Business
 - 2.9.3 Yuanjie Semiconductor Technology InP-Based Electro-Absorption Modulated Laser Product and Solutions
 - 2.9.4 Yuanjie Semiconductor Technology InP-Based Electro-Absorption Modulated Laser Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Yuanjie Semiconductor Technology Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global InP-Based Electro-Absorption Modulated Laser Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of InP-Based Electro-Absorption Modulated Laser by Company Revenue
 - 3.2.2 Top 3 InP-Based Electro-Absorption Modulated Laser Players Market Share in 2025
 - 3.2.3 Top 6 InP-Based Electro-Absorption Modulated Laser Players Market Share in 2025
- 3.3 InP-Based Electro-Absorption Modulated Laser Market: Overall Company Footprint Analysis
 - 3.3.1 InP-Based Electro-Absorption Modulated Laser Market: Region Footprint
 - 3.3.2 InP-Based Electro-Absorption Modulated Laser Market: Company Product Type Footprint
 - 3.3.3 InP-Based Electro-Absorption Modulated Laser Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global InP-Based Electro-Absorption Modulated Laser Consumption Value and Market Share by Type (2021-2026)
- 4.2 Global InP-Based Electro-Absorption Modulated Laser Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global InP-Based Electro-Absorption Modulated Laser Consumption Value Market Share by Application (2021-2026)

5.2 Global InP-Based Electro-Absorption Modulated Laser Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America InP-Based Electro-Absorption Modulated Laser Consumption Value by Type (2021-2032)

6.2 North America InP-Based Electro-Absorption Modulated Laser Market Size by Application (2021-2032)

6.3 North America InP-Based Electro-Absorption Modulated Laser Market Size by Country

6.3.1 North America InP-Based Electro-Absorption Modulated Laser Consumption Value by Country (2021-2032)

6.3.2 United States InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

6.3.3 Canada InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

6.3.4 Mexico InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe InP-Based Electro-Absorption Modulated Laser Consumption Value by Type (2021-2032)

7.2 Europe InP-Based Electro-Absorption Modulated Laser Consumption Value by Application (2021-2032)

7.3 Europe InP-Based Electro-Absorption Modulated Laser Market Size by Country

7.3.1 Europe InP-Based Electro-Absorption Modulated Laser Consumption Value by Country (2021-2032)

7.3.2 Germany InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

7.3.3 France InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

7.3.4 United Kingdom InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

7.3.5 Russia InP-Based Electro-Absorption Modulated Laser Market Size and Forecast

(2021-2032)

7.3.6 Italy InP-Based Electro-Absorption Modulated Laser Market Size and Forecast
(2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific InP-Based Electro-Absorption Modulated Laser Consumption Value by Type (2021-2032)

8.2 Asia-Pacific InP-Based Electro-Absorption Modulated Laser Consumption Value by Application (2021-2032)

8.3 Asia-Pacific InP-Based Electro-Absorption Modulated Laser Market Size by Region

8.3.1 Asia-Pacific InP-Based Electro-Absorption Modulated Laser Consumption Value by Region (2021-2032)

8.3.2 China InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

8.3.3 Japan InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

8.3.4 South Korea InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

8.3.5 India InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

8.3.7 Australia InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America InP-Based Electro-Absorption Modulated Laser Consumption Value by Type (2021-2032)

9.2 South America InP-Based Electro-Absorption Modulated Laser Consumption Value by Application (2021-2032)

9.3 South America InP-Based Electro-Absorption Modulated Laser Market Size by Country

9.3.1 South America InP-Based Electro-Absorption Modulated Laser Consumption Value by Country (2021-2032)

9.3.2 Brazil InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

9.3.3 Argentina InP-Based Electro-Absorption Modulated Laser Market Size and

Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa InP-Based Electro-Absorption Modulated Laser Consumption Value by Type (2021-2032)

10.2 Middle East & Africa InP-Based Electro-Absorption Modulated Laser Consumption Value by Application (2021-2032)

10.3 Middle East & Africa InP-Based Electro-Absorption Modulated Laser Market Size by Country

10.3.1 Middle East & Africa InP-Based Electro-Absorption Modulated Laser Consumption Value by Country (2021-2032)

10.3.2 Turkey InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

10.3.4 UAE InP-Based Electro-Absorption Modulated Laser Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 InP-Based Electro-Absorption Modulated Laser Market Drivers

11.2 InP-Based Electro-Absorption Modulated Laser Market Restraints

11.3 InP-Based Electro-Absorption Modulated Laser Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 InP-Based Electro-Absorption Modulated Laser Industry Chain

12.2 InP-Based Electro-Absorption Modulated Laser Upstream Analysis

12.3 InP-Based Electro-Absorption Modulated Laser Midstream Analysis

12.4 InP-Based Electro-Absorption Modulated Laser Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 3. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Content, (USD Million), 2021 & 2025 & 2032

Table 4. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Brunp Recycling Basic Information, Manufacturing Base and Competitors

Table 6. Brunp Recycling Major Business

Table 7. Brunp Recycling LCO Battery Electrode Recycled Black Mass Product and Services

Table 8. Brunp Recycling LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Brunp Recycling Recent Developments/Updates

Table 10. Ganfeng Lithium Basic Information, Manufacturing Base and Competitors

Table 11. Ganfeng Lithium Major Business

Table 12. Ganfeng Lithium LCO Battery Electrode Recycled Black Mass Product and Services

Table 13. Ganfeng Lithium LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Ganfeng Lithium Recent Developments/Updates

Table 15. GEM Basic Information, Manufacturing Base and Competitors

Table 16. GEM Major Business

Table 17. GEM LCO Battery Electrode Recycled Black Mass Product and Services

Table 18. GEM LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. GEM Recent Developments/Updates

Table 20. Miracle Automation Engineering Basic Information, Manufacturing Base and Competitors

Table 21. Miracle Automation Engineering Major Business

Table 22. Miracle Automation Engineering LCO Battery Electrode Recycled Black Mass

Product and Services

Table 23. Miracle Automation Engineering LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Miracle Automation Engineering Recent Developments/Updates

Table 25. CNGR Advanced Material Basic Information, Manufacturing Base and Competitors

Table 26. CNGR Advanced Material Major Business

Table 27. CNGR Advanced Material LCO Battery Electrode Recycled Black Mass Product and Services

Table 28. CNGR Advanced Material LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. CNGR Advanced Material Recent Developments/Updates

Table 30. Zhejiang Guanghai Technology Basic Information, Manufacturing Base and Competitors

Table 31. Zhejiang Guanghai Technology Major Business

Table 32. Zhejiang Guanghai Technology LCO Battery Electrode Recycled Black Mass Product and Services

Table 33. Zhejiang Guanghai Technology LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Zhejiang Guanghai Technology Recent Developments/Updates

Table 35. Redwood Materials Basic Information, Manufacturing Base and Competitors

Table 36. Redwood Materials Major Business

Table 37. Redwood Materials LCO Battery Electrode Recycled Black Mass Product and Services

Table 38. Redwood Materials LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Redwood Materials Recent Developments/Updates

Table 40. Glencore Basic Information, Manufacturing Base and Competitors

Table 41. Glencore Major Business

Table 42. Glencore LCO Battery Electrode Recycled Black Mass Product and Services

Table 43. Glencore LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Glencore Recent Developments/Updates

Table 45. Ganzhou Longkai Technology Basic Information, Manufacturing Base and

Competitors

Table 46. Ganzhou Longkai Technology Major Business

Table 47. Ganzhou Longkai Technology LCO Battery Electrode Recycled Black Mass Product and Services

Table 48. Ganzhou Longkai Technology LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Ganzhou Longkai Technology Recent Developments/Updates

Table 50. Huayou Cobalt Basic Information, Manufacturing Base and Competitors

Table 51. Huayou Cobalt Major Business

Table 52. Huayou Cobalt LCO Battery Electrode Recycled Black Mass Product and Services

Table 53. Huayou Cobalt LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Huayou Cobalt Recent Developments/Updates

Table 55. Umicore Basic Information, Manufacturing Base and Competitors

Table 56. Umicore Major Business

Table 57. Umicore LCO Battery Electrode Recycled Black Mass Product and Services

Table 58. Umicore LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Umicore Recent Developments/Updates

Table 60. SungEel HiTech Basic Information, Manufacturing Base and Competitors

Table 61. SungEel HiTech Major Business

Table 62. SungEel HiTech LCO Battery Electrode Recycled Black Mass Product and Services

Table 63. SungEel HiTech LCO Battery Electrode Recycled Black Mass Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. SungEel HiTech Recent Developments/Updates

Table 65. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 66. Global LCO Battery Electrode Recycled Black Mass Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global LCO Battery Electrode Recycled Black Mass Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 68. Market Position of Manufacturers in LCO Battery Electrode Recycled Black Mass, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and LCO Battery Electrode Recycled Black Mass Production Site of Key Manufacturer

Table 70. LCO Battery Electrode Recycled Black Mass Market: Company Product Type Footprint

Table 71. LCO Battery Electrode Recycled Black Mass Market: Company Product Application Footprint

Table 72. LCO Battery Electrode Recycled Black Mass New Market Entrants and Barriers to Market Entry

Table 73. LCO Battery Electrode Recycled Black Mass Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by Region (2021-2026) & (Tons)

Table 76. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by Region (2027-2032) & (Tons)

Table 77. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global LCO Battery Electrode Recycled Black Mass Average Price by Region (2021-2026) & (US\$/Ton)

Table 80. Global LCO Battery Electrode Recycled Black Mass Average Price by Region (2027-2032) & (US\$/Ton)

Table 81. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2021-2026) & (Tons)

Table 82. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2027-2032) & (Tons)

Table 83. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global LCO Battery Electrode Recycled Black Mass Average Price by Type (2021-2026) & (US\$/Ton)

Table 86. Global LCO Battery Electrode Recycled Black Mass Average Price by Type (2027-2032) & (US\$/Ton)

Table 87. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2021-2026) & (Tons)

Table 88. Global LCO Battery Electrode Recycled Black Mass Sales Quantity by

Application (2027-2032) & (Tons)

Table 89. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global LCO Battery Electrode Recycled Black Mass Average Price by Application (2021-2026) & (US\$/Ton)

Table 92. Global LCO Battery Electrode Recycled Black Mass Average Price by Application (2027-2032) & (US\$/Ton)

Table 93. North America LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2021-2026) & (Tons)

Table 94. North America LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2027-2032) & (Tons)

Table 95. North America LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2021-2026) & (Tons)

Table 96. North America LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2027-2032) & (Tons)

Table 97. North America LCO Battery Electrode Recycled Black Mass Sales Quantity by Country (2021-2026) & (Tons)

Table 98. North America LCO Battery Electrode Recycled Black Mass Sales Quantity by Country (2027-2032) & (Tons)

Table 99. North America LCO Battery Electrode Recycled Black Mass Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America LCO Battery Electrode Recycled Black Mass Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2021-2026) & (Tons)

Table 102. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2027-2032) & (Tons)

Table 103. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2021-2026) & (Tons)

Table 104. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2027-2032) & (Tons)

Table 105. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity by Country (2021-2026) & (Tons)

Table 106. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity by Country (2027-2032) & (Tons)

Table 107. Europe LCO Battery Electrode Recycled Black Mass Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe LCO Battery Electrode Recycled Black Mass Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2021-2026) & (Tons)

Table 110. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2027-2032) & (Tons)

Table 111. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2021-2026) & (Tons)

Table 112. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2027-2032) & (Tons)

Table 113. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity by Region (2021-2026) & (Tons)

Table 114. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity by Region (2027-2032) & (Tons)

Table 115. Asia-Pacific LCO Battery Electrode Recycled Black Mass Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific LCO Battery Electrode Recycled Black Mass Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2021-2026) & (Tons)

Table 118. South America LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2027-2032) & (Tons)

Table 119. South America LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2021-2026) & (Tons)

Table 120. South America LCO Battery Electrode Recycled Black Mass Sales Quantity by Application (2027-2032) & (Tons)

Table 121. South America LCO Battery Electrode Recycled Black Mass Sales Quantity by Country (2021-2026) & (Tons)

Table 122. South America LCO Battery Electrode Recycled Black Mass Sales Quantity by Country (2027-2032) & (Tons)

Table 123. South America LCO Battery Electrode Recycled Black Mass Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America LCO Battery Electrode Recycled Black Mass Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2021-2026) & (Tons)

Table 126. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales Quantity by Type (2027-2032) & (Tons)

Table 127. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales

Quantity by Application (2021-2026) & (Tons)

Table 128. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales

Quantity by Application (2027-2032) & (Tons)

Table 129. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales

Quantity by Country (2021-2026) & (Tons)

Table 130. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales

Quantity by Country (2027-2032) & (Tons)

Table 131. Middle East & Africa LCO Battery Electrode Recycled Black Mass

Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa LCO Battery Electrode Recycled Black Mass

Consumption Value by Country (2027-2032) & (USD Million)

Table 133. LCO Battery Electrode Recycled Black Mass Raw Material

Table 134. Key Manufacturers of LCO Battery Electrode Recycled Black Mass Raw Materials

Table 135. LCO Battery Electrode Recycled Black Mass Typical Distributors

Table 136. LCO Battery Electrode Recycled Black Mass Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. LCO Battery Electrode Recycled Black Mass Picture
- Figure 2. Global LCO Battery Electrode Recycled Black Mass Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global LCO Battery Electrode Recycled Black Mass Revenue Market Share by Type in 2025
- Figure 4. Particle Size?50?m Examples
- Figure 5. 50?Particle Size?100?m Examples
- Figure 6. Others Examples
- Figure 7. Global LCO Battery Electrode Recycled Black Mass Revenue by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global LCO Battery Electrode Recycled Black Mass Revenue Market Share by Technology in 2025
- Figure 9. Pyrometallurgical Smelting Examples
- Figure 10. Hydrometallurgical Recovery Examples
- Figure 11. Global LCO Battery Electrode Recycled Black Mass Revenue by Content, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global LCO Battery Electrode Recycled Black Mass Revenue Market Share by Content in 2025
- Figure 13. 20%? Co?35% Examples
- Figure 14. Co?35% Examples
- Figure 15. Global LCO Battery Electrode Recycled Black Mass Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global LCO Battery Electrode Recycled Black Mass Revenue Market Share by Application in 2025
- Figure 17. Power Battery Examples
- Figure 18. Energy Storage Battery Examples
- Figure 19. Others Examples
- Figure 20. Global LCO Battery Electrode Recycled Black Mass Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 21. Global LCO Battery Electrode Recycled Black Mass Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 22. Global LCO Battery Electrode Recycled Black Mass Sales Quantity (2021-2032) & (Tons)
- Figure 23. Global LCO Battery Electrode Recycled Black Mass Price (2021-2032) & (US\$/Ton)

Figure 24. Global LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global LCO Battery Electrode Recycled Black Mass Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of LCO Battery Electrode Recycled Black Mass by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 LCO Battery Electrode Recycled Black Mass Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 LCO Battery Electrode Recycled Black Mass Manufacturer (Revenue) Market Share in 2025

Figure 29. Global LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global LCO Battery Electrode Recycled Black Mass Consumption Value Market Share by Region (2021-2032)

Figure 31. North America LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 34. South America LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 36. Global LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global LCO Battery Electrode Recycled Black Mass Consumption Value Market Share by Type (2021-2032)

Figure 38. Global LCO Battery Electrode Recycled Black Mass Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. Global LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global LCO Battery Electrode Recycled Black Mass Revenue Market Share by Application (2021-2032)

Figure 41. Global LCO Battery Electrode Recycled Black Mass Average Price by Application (2021-2032) & (US\$/Ton)

Figure 42. North America LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America LCO Battery Electrode Recycled Black Mass Sales Quantity

Market Share by Application (2021-2032)

Figure 44. North America LCO Battery Electrode Recycled Black Mass Sales Quantity

Market Share by Country (2021-2032)

Figure 45. North America LCO Battery Electrode Recycled Black Mass Consumption

Value Market Share by Country (2021-2032)

Figure 46. United States LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe LCO Battery Electrode Recycled Black Mass Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 54. France LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific LCO Battery Electrode Recycled Black Mass Consumption Value Market Share by Region (2021-2032)

Figure 62. China LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 65. India LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 68. South America LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America LCO Battery Electrode Recycled Black Mass Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa LCO Battery Electrode Recycled Black Mass Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa LCO Battery Electrode Recycled Black Mass Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa LCO Battery Electrode Recycled Black Mass Consumption Value (2021-2032) & (USD Million)

Figure 82. LCO Battery Electrode Recycled Black Mass Market Drivers

- Figure 83. LCO Battery Electrode Recycled Black Mass Market Restraints
- Figure 84. LCO Battery Electrode Recycled Black Mass Market Trends
- Figure 85. Porters Five Forces Analysis
- Figure 86. Manufacturing Cost Structure Analysis of LCO Battery Electrode Recycled Black Mass in 2025
- Figure 87. Manufacturing Process Analysis of LCO Battery Electrode Recycled Black Mass
- Figure 88. LCO Battery Electrode Recycled Black Mass Industrial Chain
- Figure 89. Sales Channel: Direct to End-User vs Distributors
- Figure 90. Direct Channel Pros & Cons
- Figure 91. Indirect Channel Pros & Cons
- Figure 92. Methodology
- Figure 93. Research Process and Data Source

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