

Li-ion Battery Recycling Market by Model (Contractual Services (Source, End-use Industry), Direct-to-Market), Battery Type (LCO, LFP, LMO, NCA, NMC, LTO), Process (Pyrometallurgical, Hydrometallurgical), and Geography - Global Forecast to 2030

<https://marketpublishers.com/r/L28FCFD55C79EN.html>

Date: April 2023

Pages: 331

Price: US\$ 4,175.00 (Single User License)

ID: L28FCFD55C79EN

Abstracts

Li-ion Battery Recycling Market by Model (Contractual Services (Source, End-use Industry), Direct-to-Market), Battery Type (LCO, LFP, LMO, NCA, NMC, LTO), Process (Pyrometallurgical, Hydrometallurgical), and Geography - Global Forecast to 2030

The research report titled, 'Li-ion Battery Recycling Market by Model (Contractual Services (Source, End-use Industry), Direct-to-Market), Battery Type (LCO, LFP, LMO, NCA, NMC, LTO), Process (Pyrometallurgical, Hydrometallurgical), and Geography - Global Forecast to 2030,' provides in-depth analysis of Li-ion battery recycling Market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2030.

The global Li-ion battery recycling market is expected to reach \$6.9 billion by 2030, at a CAGR of 21.3% during the forecast period of 2023–2030.

The growth of this market is attributed to the factors such as the surge in need to manage the disposal of used batteries, the growing demand for electric vehicles, and the declining prices of batteries. However, the lack of proper recycling infrastructure restrains the growth of the global Li-ion recycling market. Growing government incentives for battery recycling and the rising recovery of valuable materials are expected to create growth opportunities for the players operating in this market.

However, the high cost of Li-ion recycling is a major challenge for the growth of the Li-ion battery recycling market.

Based on business model, the global Li-ion battery recycling market is broadly segmented into contractual services and direct-to-market. In 2023, the contractual services segment is expected to account for the larger share of the global Li-ion battery recycling market. This segment's large market share is attributed to the surging need to manage the disposal of used batteries, increasing government incentives and regulatory compliance for Li-ion battery recycling, rising need to reduce the cost of raw materials for new EV batteries. This segment is also projected to register the higher CAGR during the forecast period.

Based on battery type, the global Li-ion battery recycling market is broadly segmented into lithium cobalt oxide (LCO), lithium iron phosphate (LFP), lithium manganese oxide (LMO), lithium nickel cobalt aluminum oxide (NCA), lithium nickel manganese cobalt oxide (NMC), and lithium titanate oxide (LTO). In 2023, the LCO is expected to account for the largest share of the global Li-ion battery recycling market. This segment's large market share is attributed to its several advantages over other types of lithium-ion batteries, including high power output, increasing use in applications such as global positioning system devices, tablets, laptop computers, smartphones, electric vehicles, and medical devices where high-power output and long cycle life are essential, LCO batteries limited lifespan, rising need to recover valuable materials from the Li-ion batteries. However, the NMC segment is projected to register the highest CAGR during the forecast period.

Based on geography, the global Li-ion battery recycling market is segmented into North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. In 2023, Asia-Pacific is expected to account for the largest share of the global Li-ion battery recycling market, followed by Europe and North America. The region is also expected to witness rapid growth during the forecast period. The large market share of Asia-Pacific is attributed to the growing implementation of new policies and regulations to promote the recycling of lithium-ion batteries and reduce environmental pollution, the growing demand for lithium-ion batteries for EVs battery production, the surging amount of battery waste generated, and the growing awareness and concern for environmental sustainability.

The key players operating in the global Li-ion battery recycling market are Duesenfeld GmbH (Germany), RecycLiCo Battery Materials Inc. (Canada), Cirba Solutions (U.S.), Accurec-Recycling GmbH (Germany), Li-Cycle Holdings Corp. (Canada), Redux

Recycling GmbH (U.S.), Redwood Materials, Inc. (U.S.), Glencore plc (Switzerland), Fortum Corporation (Finland), Trishulavel Eshan Pvt Ltd (Li-Circle) (India), SNAM S.A.S (A subsidiary of Floridienne S.A) (France), Primobius GmbH (Germany), MTB Recycling (France), Tata Chemicals Limited (India), OnTo Technology (U.S.), American Battery Technology Company (U.S.), Attero Recycling Pvt. Ltd. (India), Umicore SA (Belgium), and Lithion Recycling Inc. (Canada).

Key questions answered in the report:

Which are the high growth market segments in terms of business model, battery type, recycling process, and geography?

What is the historical market for Li-ion battery recycling market across the globe?

What are the market forecasts and estimates from 2023–2030?

What are the major drivers, restraints, and opportunities in the global Li-ion battery recycling market?

Who are the major players in the global Li-ion battery recycling market, and what shares of the market do they hold?

Who are the major players in various countries, and what shares of the market do they hold?

How is the competitive landscape?

What are the recent developments in the global Li-ion battery recycling market?

What are the different strategies adopted by the major players in the global Li-ion battery recycling market?

What are the geographical trends and high growth countries?

Who are the local emerging players in the global Li-ion battery recycling market and how do they compete with the other players?

Scope of the report:

Li-ion Battery Recycling Market, by Business Model

Contractual Recycling Services

Contractual Recycling Services, By Source

Lithium-ion Cell Manufacturing Waste

Electronic Portable Devices

Electric Vehicles

Energy Storage Systems

Other Sources

Contractual Recycling Services, By End-use Industry

Consumer Electronics

Automotive

Industrial

Power & Utility

Other Industries

Direct-to-Market

Direct-to-Market, By Source

Lithium-ion Cell Manufacturing Waste

Electronic Portable Devices

Electric Vehicles

Energy Storage Systems

Other Sources

Direct-to-Market, By End-use Industry

Consumer Electronics

Automotive

Industrial

Power & Utility

Other Industries

Direct-to-Market, By Material

Graphite

Nickel

Cobalt

Copper

Manganese

Lithium

Aluminum

Iron

Other Materials

Li-ion Battery Recycling Market, by Battery Type

Li-ion Battery Recycling Market by Model (Contractual Services (Source, End-use Industry), Direct-to-Market),...

Lithium Cobalt Oxide (LCO)

Lithium Iron Phosphate (LFP)

Lithium Manganese Oxide (LMO)

Lithium Nickel Cobalt Aluminum Oxide (NCA)

Lithium Nickel Manganese Cobalt Oxide (NMC)

Lithium Titanate Oxide (LTO)

Li-ion Battery Recycling Market, by Recycling Process

Pyrometallurgical Process

Hydrometallurgical Process

Other Recycling Processes

Li-ion Battery Recycling Market, by Geography

North America

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Switzerland

Belgium

Norway

Poland

Finland

Rest of Europe

Asia-Pacific

Japan

China

India

South Korea

Singapore

Australia & New Zealand

Malaysia

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

UAE

Saudi Arabia

Rest of the Middle East & Africa

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency and Limitations
 - 1.3.1. Currency
 - 1.3.2. Limitations
- 1.4. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Process
- 2.2. Data Collection & Validation
 - 2.2.1. Secondary Research
 - 2.2.2. Primary Research
- 2.3. Market Assessment
 - 2.3.1. Market Size Estimation
 - 2.3.1.1. Bottom-Up Approach
 - 2.3.1.2. Top-Down Approach
 - 2.3.1.3. Growth forecast
- 2.4. Assumptions for The Study

3. EXECUTIVE SUMMARY

- 3.1. Overview
- 3.2. Market Analysis, by Business Model
- 3.3. Market Analysis, by Battery Type
- 3.4. Market Analysis, by Recycling Process
- 3.5. Market Analysis, by Geography
- 3.6. Competitive Analysis

4. THE IMPACT OF COVID-19 ON THE LI-ION BATTERY RECYCLING MARKET

5. MARKET INSIGHTS

- 5.1. Introduction
- 5.2. Market Dynamics

5.2.1. Global Li-ion Battery Recycling Market: Impact Analysis of Market Drivers (2023–2030)

5.2.1.1. Increasing Demand for Electric Vehicles

5.2.1.2. Growing Need to Manage the Disposal of Used Batteries

5.2.1.3. Growth in Battery Manufacturing

5.2.2. Global Li-ion Battery Recycling Market: Impact Analysis of Market Restraints (2023–2030)

5.2.2.1. Lack of Proper Recycling Infrastructure

5.2.3. Global Li-ion Battery Recycling Market: Impact Analysis of Market Opportunities (2023–2030)

5.2.3.1. Government Incentives for Battery Recycling

5.2.3.2. Growing Emphasis on Recovering Valuable Materials

5.2.3.3. Increasing Li-ion Battery Capacities

5.2.4. Global Li-ion Battery Recycling Market: Impact Analysis of Market Challenges (2023–2030)

5.2.4.1. High Cost of Li-ion Battery Recycling

5.3. Trends

5.3.1. Advancements in Recycling Technologies

5.3.2. Increasing Investments in Li-ion Battery Recycling in Emerging Countries

5.4. Value Chain Analysis

5.5. Mapping of Global Recycling Capacity, by Technologies

5.6. Technologies of Lithium Recycling from Waste Li-ion Batteries

5.6.1. Pre-Treatment Methods for Waste Lithium-Ion Battery

5.6.2. Lithium Extraction Technologies from Pre-Treated Waste Lithium-Ion Battery

6. GLOBAL LI-ION BATTERY RECYCLING MARKET, BY BUSINESS MODEL

6.1. Introduction

6.2. Contractual Recycling Services

6.2.1. Source

6.2.1.1. Electric Vehicles

6.2.1.2. Lithium-Ion Cell Manufacturing Waste

6.2.1.3. Electronic Portable Devices

6.2.1.4. Energy Storage Systems

6.2.1.5. Other Sources

6.2.2. End-Use Industry

6.2.2.1. Automotive

6.2.2.2. Industrial

6.2.2.3. Consumer Electronics

6.2.2.4. Power & Utility

6.2.2.5. Other Industries

6.3. Direct-to-market Recycled Materials

6.3.1. Source

6.3.1.1. Electric Vehicles

6.3.1.2. Lithium-Ion Cell Manufacturing Waste

6.3.1.3. Electronic Portable Devices

6.3.1.4. Energy Storage Systems

6.3.1.5. Other Sources

6.3.2. End-Use Industry

6.3.2.1. Power & Utility

6.3.2.2. Automotive

6.3.2.3. Consumer Electronics

6.3.2.4. Industrial

6.3.2.5. Other Industries

6.3.3. Material

6.3.3.1. Graphite

6.3.3.2. Aluminium

6.3.3.3. Copper

6.3.3.4. Cobalt

6.3.3.5. Manganese

6.3.3.6. Nickel

6.3.3.7. Lithium

6.3.3.8. Iron

6.3.3.9. Other Materials

7. GLOBAL LI-ION BATTERY RECYCLING MARKET, BY BATTERY TYPE

7.1. Introduction

7.2. Lithium Cobalt Oxide (LCO)

7.3. Lithium Nickel Manganese Cobalt Oxide (NMC)

7.4. Lithium Manganese Oxide (LMO)

7.5. Lithium Nickel Cobalt Aluminium Oxide (NCA)

7.6. Lithium Iron Phosphate (LFP)

7.7. Lithium Titanate (LTO)

8. GLOBAL LI-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS

8.1. Introduction

Li-ion Battery Recycling Market by Model (Contractual Services (Source, End-use Industry), Direct-to-Market),...

- 8.2. Pyrometallurgical Process
- 8.3. Hydrometallurgical Process
- 8.4. Other Recycling Processes

9. LI-ION BATTERY RECYCLING MARKET, BY GEOGRAPHY

- 9.1. Introduction
- 9.2. Asia-Pacific
 - 9.2.1. Contractual Recycling Services Market Assessment
 - 9.2.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.3. China
 - 9.2.3.1. Contractual Recycling Services Market Assessment
 - 9.2.3.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.4. Japan
 - 9.2.4.1. Contractual Recycling Services Market Assessment
 - 9.2.4.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.5. South Korea
 - 9.2.5.1. Contractual Recycling Services Market Assessment
 - 9.2.5.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.6. India
 - 9.2.6.1. Contractual Recycling Services Market Assessment
 - 9.2.6.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.7. Singapore
 - 9.2.7.1. Contractual Recycling Services Market Assessment
 - 9.2.7.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.8. Australia & New Zealand
 - 9.2.8.1. Contractual Recycling Services Market Assessment
 - 9.2.8.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.9. Malaysia
 - 9.2.9.1. Contractual Recycling Services Market Assessment
 - 9.2.9.2. Direct-to-market Recycled Materials Market Assessment
 - 9.2.10. Rest of Asia-Pacific (RoAPAC)
 - 9.2.10.1. Contractual Recycling Services Market Assessment
 - 9.2.10.2. Direct-to-market Recycled Materials Market Assessment
- 9.3. Europe
 - 9.3.1. Contractual Recycling Services Market Assessment
 - 9.3.2. Direct-to-market Recycled Materials Market Assessment
 - 9.3.3. Germany
 - 9.3.3.1. Contractual Recycling Services Market Assessment

- 9.3.3.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.4. U.K.
 - 9.3.4.1. Contractual Recycling Services Market Assessment
 - 9.3.4.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.5. France
 - 9.3.5.1. Contractual Recycling Services Market Assessment
 - 9.3.5.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.6. Belgium
 - 9.3.6.1. Contractual Recycling Services Market Assessment
 - 9.3.6.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.7. Spain
 - 9.3.7.1. Contractual Recycling Services Market Assessment
 - 9.3.7.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.8. Italy
 - 9.3.8.1. Contractual Recycling Services Market Assessment
 - 9.3.8.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.9. Switzerland
 - 9.3.9.1. Contractual Recycling Services Market Assessment
 - 9.3.9.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.10. Norway
 - 9.3.10.1. Contractual Recycling Services Market Assessment
 - 9.3.10.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.11. Poland
 - 9.3.11.1. Contractual Recycling Services Market Assessment
 - 9.3.11.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.12. Finland
 - 9.3.12.1. Contractual Recycling Services Market Assessment
 - 9.3.12.2. Direct-to-market Recycled Materials Market Assessment
- 9.3.13. Rest of Europe
 - 9.3.13.1. Contractual Recycling Services Market Assessment
 - 9.3.13.2. Direct-to-market Recycled Materials Market Assessment
- 9.4. North America
 - 9.4.1. Contractual Recycling Services Market Assessment
 - 9.4.2. Direct-to-market Recycled Materials Market Assessment
 - 9.4.3. U.S.
 - 9.4.3.1. Contractual Recycling Services Market Assessment
 - 9.4.3.2. Direct-to-market Recycled Materials Market Assessment
 - 9.4.4. Canada
 - 9.4.4.1. Contractual Recycling Services Market Assessment

- 9.4.4.2. Direct-to-market Recycled Materials Market Assessment
- 9.5. Latin America
 - 9.5.1. Contractual Recycling Services Market Assessment
 - 9.5.2. Direct-to-market Recycled Materials Market Assessment
 - 9.5.3. Mexico
 - 9.5.3.1. Contractual Recycling Services Market Assessment
 - 9.5.3.2. Direct-to-market Recycled Materials Market Assessment
 - 9.5.4. Brazil
 - 9.5.4.1. Contractual Recycling Services Market Assessment
 - 9.5.4.2. Direct-to-market Recycled Materials Market Assessment
 - 9.5.5. Rest of Latin America
 - 9.5.5.1. Contractual Recycling Services Market Assessment
 - 9.5.5.2. Direct-to-market Recycled Materials Market Assessment
- 9.6. Middle East & Africa
 - 9.6.1. Contractual Recycling Services Market Assessment
 - 9.6.2. Direct-to-market Recycled Materials Market Assessment
 - 9.6.3. United Arab Emirates
 - 9.6.3.1. Contractual Recycling Services Market Assessment
 - 9.6.3.2. Direct-to-market Recycled Materials Market Assessment
 - 9.6.4. Saudi Arabia
 - 9.6.4.1. Contractual Recycling Services Market Assessment
 - 9.6.4.2. Direct-to-market Recycled Materials Market Assessment
 - 9.6.5. Rest of Middle East & Africa
 - 9.6.5.1. Contractual Recycling Services Market Assessment
 - 9.6.5.2. Direct-to-market Recycled Materials Market Assessment

10. COMPETITIVE LANDSCAPE

- 10.1. Introduction
- 10.2. Key Growth Strategies
- 10.3. Competitive Benchmarking
 - 10.3.1. Industry Leaders
 - 10.3.2. Market Differentiators
 - 10.3.3. Vanguard
 - 10.3.4. Emerging Companies
- 10.4. Vendor Market Positioning
- 10.5. Market Ranking by Key Players (2022)

11. COMPANY PROFILES

- 11.1. Glencore plc
 - 11.1.1. Business Overview
 - 11.1.2. Financial Overview
 - 11.1.3. Product Portfolio
 - 11.1.4. Strategic Developments
- 11.2. Li-Cycle Holdings Corp.
 - 11.2.1. Business Overview
 - 11.2.2. Financial Overview
 - 11.2.3. Product Portfolio
 - 11.2.4. Strategic Developments
- 11.3. Umicore SA
 - 11.3.1. Business Overview
 - 11.3.2. Financial Overview
 - 11.3.3. Product Portfolio
 - 11.3.4. Strategic Developments
- 11.4. Tata Chemicals Limited
 - 11.4.1. Business Overview
 - 11.4.2. Financial Overview
 - 11.4.3. Product Portfolio
- 11.5. Fortum Corporation
 - 11.5.1. Business Overview
 - 11.5.2. Financial Overview
 - 11.5.3. Product Portfolio
 - 11.5.4. Strategic Developments
- 11.6. Snam S.A.S. (A Subsidiary of Floridienne S.A.)
 - 11.6.1. Business Overview
 - 11.6.2. Financial Overview
 - 11.6.3. Product Portfolio
- 11.7. Attero Recycling Pvt. Ltd.
 - 11.7.1. Business Overview
 - 11.7.2. Product Portfolio
 - 11.7.3. Strategic Developments
- 11.8. Lithion Recycling Inc.
 - 11.8.1. Business Overview
 - 11.8.2. Product Portfolio
 - 11.8.3. Strategic Developments
- 11.9. Duesenfeld GmbH
 - 11.9.1. Business Overview

- 11.9.2. Product Portfolio
- 11.10. Trishulavel Eshan Pvt Ltd (Li-Circle)
 - 11.10.1. Business Overview
 - 11.10.2. Product Portfolio
- 11.11. MTB Recycling
 - 11.11.1. Business Overview
 - 11.11.2. Product Portfolio
- 11.12. American Battery Technology Company
 - 11.12.1. Business Overview
 - 11.12.2. Financial Overview
 - 11.12.3. Product Portfolio
- 11.13. RecycLiCo Battery Materials Inc.
 - 11.13.1. Business Overview
 - 11.13.2. Financial Overview
 - 11.13.3. Product Portfolio
 - 11.13.4. Strategic Developments
- 11.14. Cirba Solutions (A Subsidiary of Retriv Technologies Inc.)
 - 11.14.1. Business Overview
 - 11.14.2. Product Portfolio
 - 11.14.3. Strategic Developments
- 11.15. Redwood Materials, Inc.
 - 11.15.1. Business Overview
 - 11.15.2. Product Portfolio
 - 11.15.3. Strategic Developments
- 11.16. Primobius GmbH
 - 11.16.1. Business Overview
 - 11.16.2. Product Portfolio
 - 11.16.3. Strategic Developments
- 11.17. Redux Recycling GmbH
 - 11.17.1. Business Overview
 - 11.17.2. Product Portfolio
- 11.18. OnTo Technology LLC
 - 11.18.1. Business Overview
 - 11.18.2. Product Portfolio
- 11.19. Accurec-Recycling GmbH
 - 11.19.1. Business Overview
 - 11.19.2. Product Portfolio

12. APPENDIX

12.1. Questionnaire

12.2. Available Customization

List Of Tables

LIST OF TABLES

Table 1 Currency Conversion Rate, 2018–2022

Table 2 Global Li-ion Battery Recycling Market Size, by Business Model, 2021–2030 (USD Million)

Table 3 Global Contractual Recycling Services Market Size, by Country/Region, 2021–2030 (USD Million)

Table 4 Global Contractual Recycling Services Market Size, by Source, 2021–2030 (USD Million)

Table 5 Global Contractual Recycling Services Market Size by Source, by Country/Region, 2021–2030 (USD Million)

Table 6 Global Contractual Recycling Services Market Size from Electric Vehicles, by Country/Region, 2021–2030 (USD Million)

Table 7 Global Contractual Recycling Services Market Size from Lithium-Ion Cell Manufacturing Waste, by Country/Region, 2021–2030 (USD Million)

Table 8 Contractual Recycling Services Market Size from Electronic Portable Devices, by Country/Region, 2021–2030 (USD Million)

Table 9 Contractual Recycling Services Market Size from Energy Storage Systems, by Country/Region, 2021–2030 (USD Million)

Table 10 Global Contractual Recycling Services Market Size from Other Sources, by Country/Region, 2021–2030 (USD Million)

Table 11 Global Contractual Recycling Services Market Size, by End-Use Industry, 2021–2030 (USD Million)

Table 12 Global Contractual Recycling Services Market Size by End-Use Industry, by Country/Region, 2021–2030 (USD Million)

Table 13 Global Contractual Recycling Services Market Size for Automotive, by Country/Region, 2021–2030 (USD Million)

Table 14 Global Contractual Recycling Services Market Size for Industrial, by Country/Region, 2021–2030 (USD Million)

Table 15 Global Contractual Recycling Services Market Size for Consumer Electronics, by Country/Region, 2021–2030 (USD Million)

Table 16 Global Contractual Recycling Services Market Size for Power & Utility, by Country/Region, 2021–2030 (USD Million)

Table 17 Global Contractual Recycling Services Market Size for Other Industries, by Country/Region, 2021–2030 (USD Million)

Table 18 Global Direct-to-market Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 19 Global Direct-to-market Recycled Materials Market Size, by Source, 2021–2030 (USD Million)

Table 20 Global Direct-to-market Recycled Materials Market Size by Source, by Country/Region, 2021–2030 (USD Million)

Table 21 Global Direct-to-market Recycled Materials from Electric Vehicles Market Size, by Country/Region, 2021–2030 (USD Million)

Table 22 Global Direct-to-market Recycled Materials from Li-ion Cell Manufacturing Waste Market Size, by Country/Region, 2021–2030 (USD Million)

Table 23 Direct-to-market Recycled Materials from Electronic Portable Devices Market Size, by Country/Region, 2021–2030 (USD Million)

Table 24 Direct-to-market Recycled Materials from Energy Storage Systems Market Size, by Country/Region, 2021–2030 (USD Million)

Table 25 Global Direct-to-market Recycled Materials from Other Sources Market Size, by Country/Region, 2021–2030 (USD Million)

Table 26 Global Direct-to-market Recycled Materials Market Size, by End-Use Industry, 2021–2030 (USD Million)

Table 27 Global Direct-to-market Recycled Materials Market Size by End-Use Industry, by Country/Region, 2021–2030 (USD Million)

Table 28 Global Direct-to-market Recycled Materials Market Size for Power & Utility, by Country/Region, 2021–2030 (USD Million)

Table 29 Global Direct-to-market Recycled Materials Market Size for Automotive, by Country/Region, 2021–2030 (USD Million)

Table 30 Global Direct-to-market Recycled Materials Market Size for Consumer Electronics, by Country/Region, 2021–2030 (USD Million)

Table 31 Global Direct-to-market Recycled Materials Market Size for Industrial, by Country/Region, 2021–2030 (USD Million)

Table 32 Global Direct-to-market Recycled Materials Market Size for Other Industries, by Country/Region, 2021–2030 (USD Million)

Table 33 Global Direct-to-market Market Size, by Material, 2021–2030 (USD Million)

Table 34 Global Direct-to-market Market Size by Material, by Country/Region, 2021–2030 (USD Million)

Table 35 Global Graphite Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 36 Global Aluminum Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 37 Global Copper Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 38 Global Cobalt Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 39 Global Manganese Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 40 Global Nickel Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 41 Global Lithium Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 42 Global Iron Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 43 Global Other Materials Recycled Materials Market Size, by Country/Region, 2021–2030 (USD Million)

Table 44 Global Li-ion Battery Recycling Market Size, by Battery Type, 2021–2030 (USD Million)

Table 45 Characteristics of Lithium Cobalt Oxide — LCO

Table 46 Global Lithium Cobalt Oxide Battery Recycling Market Size, by Country, 2021–2030 (USD Million)

Table 47 Characteristics of Lithium Nickel Manganese Cobalt Oxide — NMC

Table 48 Global Lithium Nickel Manganese Cobalt Oxide Battery Recycling Market Size, by Country, 2021–2030 (USD Million)

Table 49 Characteristics of Lithium Manganese Oxide — LMO

Table 50 Global Lithium Manganese Oxide Battery Recycling Market Size, by Country, 2021–2030 (USD Million)

Table 51 Characteristics of Lithium Nickel Cobalt Aluminium Oxides — NCA

Table 52 Global Lithium Nickel Cobalt Aluminium Oxides Battery Recycling Market Size, by Country, 2021–2030 (USD Million)

Table 53 Characteristics of Lithium Iron Phosphate — LFP

Table 54 Global Lithium Iron Phosphate Battery Recycling Market Size, by Country, 2021–2030 (USD Million)

Table 55 Characteristics of Lithium Titanate — LTO

Table 56 Global Lithium Titanate Battery Recycling Market Size, by Country, 2021–2030 (USD Million)

Table 57 Global Li-ion Battery Recycling Market Size, by Recycling Process, 2021–2030 (USD Million)

Table 58 Global Li-ion Battery Pyrometallurgical Process Market Size, by Country/Region, 2021–2030 (USD Million)

Table 59 Global Li-ion Battery Hydrometallurgical Process Market Size, by Country/Region, 2021–2030 (USD Million)

Table 60 Global Li-ion Battery Other Recycling Processes Market Size, by Country/Region, 2021–2030 (USD Million)

Table 61 Global Li-ion Battery Recycling Market Size, by Country/Region, 2021–2030

(USD Million)

Table 62 Asia-Pacific: Li-ion Battery Recycling Market Size, by Country/Region, 2021–2030 (USD Million)

Table 63 Asia-Pacific: Li-ion Battery Recycling Market Size, by Business Model, 2021–2030 (USD Million)

Table 64 Asia-Pacific: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 65 Asia-Pacific: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 66 Asia-Pacific: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 67 Asia-Pacific: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 68 Asia-Pacific: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Type, 2021–2030 (USD Million)

Table 69 Asia-Pacific: Li-ion Battery Recycling Market, by Battery Type, 2021–2030 (USD Million)

Table 70 Asia-Pacific: Li-ion Battery Recycling Market, by Recycling Process, 2021–2030 (USD Million)

Table 71 China: Li-ion Battery Recycling Market Size, by Business Model, 2021–2030 (USD Million)

Table 72 China: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 73 China: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 74 China: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 75 China: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 76 China: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Type, 2021–2030 (USD Million)

Table 77 China: Li-ion Battery Recycling Market, by Battery Type, 2021–2030 (USD Million)

Table 78 China: Li-ion Battery Recycling Market, by Recycling Process, 2021–2030 (USD Million)

Table 79 Japan: Li-ion Battery Recycling Market Size, by Business Model, 2021–2030 (USD Million)

Table 80 Japan: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 81 Japan: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 82 Japan: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 83 Japan: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 84 Japan: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Type, 2021–2030 (USD Million)

Table 85 Japan: Li-ion Battery Recycling Market, by Battery Type, 2021–2030 (USD Million)

Table 86 Japan: Li-ion Battery Recycling Market, by Recycling Process, 2021–2030 (USD Million)

Table 87 South Korea: Li-ion Battery Recycling Market Size, by Business Model, 2021–2030 (USD Million)

Table 88 South Korea: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 89 South Korea: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 90 South Korea: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 91 South Korea: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 92 South Korea: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Type, 2021–2030 (USD Million)

Table 93 South Korea: Li-ion Battery Recycling Market, by Battery Type, 2021–2030 (USD Million)

Table 94 South Korea: Li-ion Battery Recycling Market, by Recycling Process, 2021–2030 (USD Million)

Table 95 India: Li-ion Battery Recycling Market Size, by Business Model, 2021–2030 (USD Million)

Table 96 India: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 97 India: Contractual Recycling Services Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 98 India: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by Source, 2021–2030 (USD Million)

Table 99 India: Direct-to-market Recycled Materials Market Size for Li-ion Battery Recycling, by End-Use Industry, 2021–2030 (USD Million)

Table 100 India: Direct-to-market Recycled Materials Market Size for Li-ion Battery

Recycling, by Type, 2021–2030 (USD Million)

...

List Of Figures

LIST OF FIGURES

Figure 1 Research Process

Figure 2 Key Secondary Sources

Figure 3 Primary Research Techniques

Figure 4 Key Executives Interviewed

Figure 5 Breakdown of Primary Interviews (Supply Side & Demand Side)

Figure 6 Market Sizing and Growth Forecast Approach

Figure 7 Key Insights

Figure 8 In 2023, the Contractual Recycling Services Segment is Expected to Dominate the Global Li-ion Battery Recycling Market

Figure 9 In 2023, the Lithium Cobalt Oxide Segment is Expected to Dominate the Global Li-ion Battery Recycling Market

Figure 10 In 2023, the Pyrometallurgical Process Segment is Expected to Dominate the Global Li-ion Battery Recycling Market

Figure 11 Global Li-ion Battery Recycling Market, by Region (2023 Vs. 2030)

Figure 12 Market Dynamics

Figure 13 Value Chain: Li-ion Battery Recycling Market

Figure 14 Global Recycling Capacity, by Technologies, 2020: Li-ion Battery Recycling Market

Figure 15 Pre-Treatment Methods for Waste Lithium-Ion Battery

Figure 16 Lithium Recycling from Pre-Treated Waste LiB Components by Pyrometallurgy Process

Figure 17 Lithium Recycling from Pre-Treated Waste LiB Components by Hydrometallurgy Process

Figure 18 Lithium Recycling from Pre-Treated Waste LiB Components by Electrochemical Extraction Process

Figure 19 Global Li-ion Battery Recycling Market Size, by Business Model, 2023 Vs. 2030 (USD Million)

Figure 20 Global Li-ion Battery Recycling Market Size, by Battery Type, 2023 Vs. 2030 (USD Million)

Figure 21 Global Li-ion Battery Recycling Market Size, by Recycling Process, 2023 Vs. 2030 (USD Million)

Figure 22 Global Li-ion Battery Recycling Market, by Region, 2023 Vs. 2030 (USD Million)

Figure 23 Geographic Snapshot: Li-ion Battery Recycling Market in Asia-Pacific

Figure 24 Geographic Snapshot: Li-ion Battery Recycling Market in Europe

- Figure 26 Geographic Snapshot: Li-ion Battery Recycling Market in North America
- Figure 27 Geographic Snapshot: Li-ion Battery Recycling Market in Latin America
- Figure 28 Geographic Snapshot: Li-ion Battery Recycling Market in Middle East & Africa
- Figure 29 Growth Strategies Adopted by Key Players (2020–2023)
- Figure 30 Competitive Dashboard: Li-ion Battery Recycling Market
- Figure 31 Vendor Market Positioning Analysis (2020–2023)
- Figure 32 Glencore plc: Financial Overview (2021)
- Figure 33 Li-Cycle Holdings Corp.: Financial Overview (2022)
- Figure 34 Umicore SA: Financial Overview (2021)
- Figure 35 Tata Chemicals Limited: Financial Overview (2021)
- Figure 36 Fortum Corporation: Financial Overview (2021)
- Figure 37 Floridienne S.A.: Financial Overview (2021)
- Figure 38 American Battery Technology Company: Financial Overview (2021)
- Figure 39 RecycLiCo Battery Materials Inc.: Financial Overview (2021)

I would like to order

Product name: Li-ion Battery Recycling Market by Model (Contractual Services (Source, End-use Industry), Direct-to-Market), Battery Type (LCO, LFP, LMO, NCA, NMC, LTO), Process (Pyrometallurgical, Hydrometallurgical), and Geography - Global Forecast to 2030

Product link: <https://marketpublishers.com/r/L28FCFD55C79EN.html>

Price: US\$ 4,175.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L28FCFD55C79EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970