

# **Lithium-Ion Battery Recycling Market by Type (Lithium-Iron Phosphate, Lithium-Manganese Oxide, Lithium-Nickel-Cobalt-Aluminum Oxide, Lithium-Nickel-Manganese-Cobalt, and Lithium-Titanate Oxide), Source (Electric Vehicles, Electronics, Power Tools, and Others), Recycling Process (Hydrometallurgical Process, Physical/Mechanical Process, and Pyrometallurgy Process), and EndUse (Automotive and Non-Automotive): Global Opportunity Analysis and Industry Forecast, 2021–2030**

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## **Abstracts**

The global lithium-ion battery recycling market was valued at \$1.3 billion in 2020, and is expected to reach \$38.2 billion by 2030, registering a CAGR of 36.0% from 2021 to 2030.

Lithium-ion batteries consist of a number of heavy metals such as copper, nickel, and lead, and toxic chemicals, such as toxic and flammable electrolytes containing  $\text{LiClO}_4$ ,  $\text{LiBF}_4$ , and  $\text{LiPF}_6$ . Disposing them by the same process as regular waste can harm the environment. Hence, lithium-ion battery recycling process is adopted to decrease number of batteries being disposed as municipal solid wastes and to encourage efficient use of battery. Most type of batteries such as power tools, smartphone batteries, and automotive batteries can be recycled. Battery recycling prevents environment from hazardous effects such as soil contamination and water pollution. The method of recycling differs as per type of battery. Hence, it is necessary to separate batteries before recycling.

Environmental pollution through disposal of battery and rise in demand for electric vehicles/hybrid electric vehicle/plug-in hybrid electric vehicle are the key factors that drive growth of the lithium-ion battery recycling market during the forecast period. However, focus on lowering cost of lithium-ion battery rather than its recyclability is anticipated to restrain growth of the lithium-ion battery recycling market during the forecast period. Conversely, higher energy efficiency requirements in technologically updated consumer gadgets and high adoption of electric vehicles are projected to create opportunities for key players to maintain pace in the market globally in the coming years.

The global lithium-ion battery recycling market is segmented into battery chemistry, source, recycling process, end use, and region. Depending on battery chemistry, the market is categorized into lithium-iron phosphate, lithium-manganese oxide, lithium-nickel-cobalt-aluminum oxide, lithium-nickel-manganese-cobalt, and lithium-titanate oxide. As per source, it is classified into electric vehicles, electronics, power tools, and others. By recycling process, it market is fragmented into hydrometallurgical process, physical/mechanical process, and pyrometallurgy process. On the basis of end use, it market is bifurcated into automotive and non-automotive. Region-wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## KEY BENEFITS FOR STAKEHOLDERS

The report includes in-depth analysis of different segments and provides market estimations between 2020 and 2027.

A comprehensive analysis of the factors that drive and restrict the growth of the global lithium-ion battery recycling market is provided.

Porter's five forces model illustrates the potency of buyers & sellers, which is estimated to assist the lithium-ion battery recycling market players to adopt effective strategies.

Estimations and forecast are based on factors impacting the global lithium-ion battery recycling market growth in terms of value.

Key market players are profiled to gain an understanding of the strategies adopted by them.

This report provides a detailed analysis of the current global lithium-ion battery recycling market trends and future estimations from 2020 to 2027, which helps identify the prevailing market opportunities.

## KEY MARKET SEGMENTS

### By Battery Chemistry

Lithium-Iron Phosphate

Lithium-Manganese Oxide

Lithium-Nickel-Cobalt-Aluminum Oxide

Lithium-Nickel-Manganese Cobalt

Lithium-Titanate Oxide

### By Source

Electric Vehicles

Electronics

Power Tools

Others

### By Recycling Process

Hydrometallurgical Process

Physical/Mechanical Process

## Pyrometallurgy Process

### By End-Use

Automotive

Non-Automotive

Industrial

Consumer Electronics

### By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

## KEY MARKET PLAYERS

Ganfeng Lithium Co., Ltd.

American Battery Technology Company

Accurec Recycling GmbH

Akkuser Oy

Duesenfeld GmbH

Li-Cycle Corp.

Fortum Corporation

Retriev Technologies, Inc.

Lithion Recycling, Inc.

Umicore

Other players operating in the value chain of the global lithium-ion battery recycling market are Neometals Ltd., Primobius, Green Li-ion Pvt., Ltd., SungEel MCC Americas, Redux GmbH, and others

## Contents

### CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key benefits for stakeholders
- 1.3.Key market segments
- 1.4.Research methodology
  - 1.4.1.Primary research
  - 1.4.2.Secondary research
  - 1.4.3.Analyst tools and models

### CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.Key findings
- 2.2.CXO perspective

### CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Key forces shaping the market
- 3.3.Top investment pockets
- 3.4.Patent analysis
  - 3.4.1.By region, 2013–2020
- 3.5.Market dynamics
  - 3.5.1.Drivers
    - 3.5.1.1.Environmental pollution through disposal of battery
    - 3.5.1.2.Rise in demand for electrical vehicles/hybrid electric vehicles/plug-in hybrid vehicles (EV/HEV/PHV)
    - 3.5.1.3.Increase in demand for smartphones, tablets, and other electronic devices
  - 3.5.2.Restraints
    - 3.5.2.1.Focus on lowering cost of lithium-ion battery rather than its recyclability
  - 3.5.3.Opportunity
    - 3.5.3.1.Higher energy efficiency requirements in technologically updated consumer gadgets and high adoption of electric vehicles
- 3.6.Parent Peer Market Overview
- 3.7.Impact of government rules and regulations
  - 3.7.1.Resource Recovery and Circular Economy Act, 2016 (RRCEA)
  - 3.7.2.Mandatory renewable energy targets

### 3.8.Impact of COVID-19 outbreak on the market

## **CHAPTER 4:LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY**

### 4.1.Overview

#### 4.1.1.Market size and forecast

### 4.2.Lithium-Iron Phosphate

#### 4.2.1.Key market trends, growth factors, and opportunities

#### 4.2.2.Market size and forecast, by region

#### 4.2.3.Market share analysis, by country

### 4.3.Lithium-manganese oxide

#### 4.3.1.Key market trends, growth factors, and opportunities

#### 4.3.2.Market size and forecast, by region

#### 4.3.3.Market share analysis, by country

### 4.4.Lithium-nickel-cobalt-aluminum oxide

#### 4.4.1.Key market trends, growth factors, and opportunities

#### 4.4.2.Market size and forecast, by region

#### 4.4.3.Market share analysis, by country

### 4.5.Lithium-nickel-manganese-cobalt

#### 4.5.1.Key market trends, growth factors, and opportunities

#### 4.5.2.Market size and forecast, by region

#### 4.5.3.Market share analysis, by country

### 4.6.Lithium-titanate oxide

#### 4.6.1.Key market trends, growth factors, and opportunities

#### 4.6.2.Market size and forecast, by region

#### 4.6.3.Market share analysis, by country

## **CHAPTER 5:LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE**

### 5.1.Overview

#### 5.1.1.Market size and forecast

### 5.2.Electric Vehicles

#### 5.2.1.Key market trends, growth factors, and opportunities

#### 5.2.2.Market size and forecast, by region

#### 5.2.3.Market share analysis, by country

### 5.3.Electronics

#### 5.3.1.Key market trends, growth factors, and opportunities

#### 5.3.2.Market size and forecast, by region



5.3.3.Market share analysis, by country

5.4.Power tools

5.4.1.Key market trends, growth factors, and opportunities

5.4.2.Market size and forecast, by region

5.4.3.Market share analysis, by country

5.5.Others

5.5.1.Key market trends, growth factors, and opportunities

5.5.2.Market size and forecast, by region

5.5.3.Market share analysis, by country

## **CHAPTER 6:LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS**

6.1.Overview

6.1.1.Market size and forecast

6.2.Hydrometallurgical process

6.2.1.Key market trends, growth factors, and opportunities

6.2.2.Market size and forecast, by region

6.2.3.Market share analysis, by country

6.3.Physical/mechanical process

6.3.1.Key market trends, growth factors, and opportunities

6.3.2.Market size and forecast, by region

6.3.3.Market share analysis, by country

6.4.Pyrometallurgy process

6.4.1.Key market trends, growth factors, and opportunities

6.4.2.Market size and forecast, by region

6.4.3.Market share analysis, by country

## **CHAPTER 7:LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE**

7.1.Overview

7.1.1.Market size and forecast

7.2.Automotive

7.2.1.Key market trends, growth factors, and opportunities

7.2.2.Market size and forecast, by region

7.2.3.Market share analysis, by country

7.3.Non-automotive

7.3.1.Key market trends, growth factors, and opportunities

7.3.2.Market size and forecast, by region

7.3.3. Market size and forecast, by non-automotive end-uses

7.3.4. Consumer Electronics

7.3.4.1. Market size and forecast, by region

7.3.5. Industrial

7.3.5.1. Market size and forecast, by region

7.3.6. Market share analysis, by country

## **CHAPTER 8: LITHIUM-ION BATTERY RECYCLING MARKET, BY REGION**

8.1. Overview

8.1.1. Market size and forecast

8.2. North America

8.2.1. Key market trends, growth factors, and opportunities

8.2.2. Market size and forecast, by battery chemistry

8.2.3. Market size and forecast, by source

8.2.4. Market size and forecast, by recycling process

8.2.5. Market size and forecast, by end-use

8.2.5.1. Market size and forecast, by non-automotive end-use

8.2.6. Market share analysis, by country

8.2.7. The U.S.

8.2.7.1. Market size and forecast, by battery chemistry

8.2.7.2. Market size and forecast, by source

8.2.7.3. Market size and forecast, by recycling process

8.2.7.4. Market size and forecast, by end-use

8.2.7.4.1. Market size and forecast, by non-automotive end-use

8.2.8. Canada

8.2.8.1. Market size and forecast, by battery chemistry

8.2.8.2. Market size and forecast, by source

8.2.8.3. Market size and forecast, by recycling process

8.2.8.4. Market size and forecast, by end-use

8.2.8.4.1. Market size and forecast, by non-automotive end-use

8.2.9. Mexico

8.2.9.1. Market size and forecast, by battery chemistry

8.2.9.2. Market size and forecast, by source

8.2.9.3. Market size and forecast, by recycling process

8.2.9.4. Market size and forecast, by end-use

8.2.9.4.1. Market size and forecast, by non-automotive end-use

8.3. Europe

8.3.1. Key market trends, growth factors, and opportunities

- 8.3.2. Market size and forecast, by battery chemistry
- 8.3.3. Market size and forecast, by source
- 8.3.4. Market size and forecast, by recycling process
- 8.3.5. Market size and forecast, by end-use
  - 8.3.5.1. Market size and forecast, by non-automotive end-use
- 8.3.6. Market share analysis, by country
- 8.3.7. Germany
  - 8.3.7.1. Market size and forecast, by battery chemistry
  - 8.3.7.2. Market size and forecast, by source
  - 8.3.7.3. Market size and forecast, by recycling process
  - 8.3.7.4. Market size and forecast, by end-use
    - 8.3.7.4.1. Market size and forecast, by non-automotive end-use
- 8.3.8. France
  - 8.3.8.1. Market size and forecast, by battery chemistry
  - 8.3.8.2. Market size and forecast, by source
  - 8.3.8.3. Market size and forecast, by recycling process
  - 8.3.8.4. Market size and forecast, by end-use
    - 8.3.8.4.1. Market size and forecast, by non-automotive end-use
- 8.3.9. Italy
  - 8.3.9.1. Market size and forecast, by battery chemistry
  - 8.3.9.2. Market size and forecast, by source
  - 8.3.9.3. Market size and forecast, by recycling process
  - 8.3.9.4. Market size and forecast, by end-use
    - 8.3.9.4.1. Market size and forecast, by non-automotive end-use
- 8.3.10. Spain
  - 8.3.10.1. Market size and forecast, by battery chemistry
  - 8.3.10.2. Market size and forecast, by source
  - 8.3.10.3. Market size and forecast, by recycling process
  - 8.3.10.4. Market size and forecast, by end-use
    - 8.3.10.4.1. Market size and forecast, by non-automotive end-use
- 8.3.11. UK
  - 8.3.11.1. Market size and forecast, by battery chemistry
  - 8.3.11.2. Market size and forecast, by source
  - 8.3.11.3. Market size and forecast, by recycling process
  - 8.3.11.4. Market size and forecast, by end-use
    - 8.3.11.4.1. Market size and forecast, by non-automotive end-use
- 8.3.12. Rest of Europe
  - 8.3.12.1. Market size and forecast, by battery chemistry
  - 8.3.12.2. Market size and forecast, by source

8.3.12.3.Market size and forecast, by recycling process

8.3.12.4.Market size and forecast, by end-use

8.3.12.4.1.Market size and forecast, by non-automotive end-use

#### 8.4.Asia-Pacific

8.4.1.Key market trends, growth factors, and opportunities

8.4.2.Market size and forecast, by battery chemistry

8.4.3.Market size and forecast, by source

8.4.4.Market size and forecast, by recycling process

8.4.5.Market size and forecast, by end-use

8.4.5.1.Market size and forecast, by non-automotive end-use

8.4.6.Market share analysis, by country

#### 8.4.7.China

8.4.7.1.Market size and forecast, by battery chemistry

8.4.7.2.Market size and forecast, by source

8.4.7.3.Market size and forecast, by recycling process

8.4.7.4.Market size and forecast, by end-use

8.4.7.4.1.Market size and forecast, by non-automotive end-use

#### 8.4.8.Japan

8.4.8.1.Market size and forecast, by battery chemistry

8.4.8.2.Market size and forecast, by source

8.4.8.3.Market size and forecast, by recycling process

8.4.8.4.Market size and forecast, by end-use

8.4.8.4.1.Market size and forecast, by non-automotive end-use

#### 8.4.9.India

8.4.9.1.Market size and forecast, by battery chemistry

8.4.9.2.Market size and forecast, by source

8.4.9.3.Market size and forecast, by recycling process

8.4.9.4.Market size and forecast, by end-use

8.4.9.4.1.Market size and forecast, by non-automotive end-use

#### 8.4.10.South Korea

8.4.10.1.Market size and forecast, by battery chemistry

8.4.10.2.Market size and forecast, by source

8.4.10.3.Market size and forecast, by recycling process

8.4.10.4.Market size and forecast, by end-use

8.4.10.4.1.Market size and forecast, by non-automotive end-use

#### 8.4.11.Australia

8.4.11.1.Market size and forecast, by battery chemistry

8.4.11.2.Market size and forecast, by source

8.4.11.3.Market size and forecast, by recycling process

8.4.11.4. Market size and forecast, by end-use

8.4.11.4.1. Market size and forecast, by non-automotive end-use

8.4.12. Rest of Asia-Pacific

8.4.12.1. Market size and forecast, by battery chemistry

8.4.12.2. Market size and forecast, by source

8.4.12.3. Market size and forecast, by recycling process

8.4.12.4. Market size and forecast, by end-use

8.4.12.4.1. Market size and forecast, by non-automotive end-use

8.5. LAMEA

8.5.1. Key market trends, growth factors, and opportunities

8.5.2. Market size and forecast, by battery chemistry

8.5.3. Market size and forecast, by source

8.5.4. Market size and forecast, by recycling process

8.5.5. Market size and forecast, by end-use

8.5.5.1. Market size and forecast, by non-automotive end-use

8.5.6. Market share analysis, by country

8.5.7. Brazil

8.5.7.1. Market size and forecast, by battery chemistry

8.5.7.2. Market size and forecast, by source

8.5.7.3. Market size and forecast, by recycling process

8.5.7.4. Market size and forecast, by end-use

8.5.7.4.1. Market size and forecast, by non-automotive end-use

8.5.8. Saudi Arabia

8.5.8.1. Market size and forecast, by battery chemistry

8.5.8.2. Market size and forecast, by source

8.5.8.3. Market size and forecast, by recycling process

8.5.8.4. Market size and forecast, by end-use

8.5.8.4.1. Market size and forecast, by non-automotive end-use

8.5.9. South Africa

8.5.9.1. Market size and forecast, by battery chemistry

8.5.9.2. Market size and forecast, by source

8.5.9.3. Market size and forecast, by recycling process

8.5.9.4. Market size and forecast, by end-use

8.5.9.5. Market size and forecast, by non-automotive end-use

8.5.10. Rest of LAMEA

8.5.10.1. Market size and forecast, by battery chemistry

8.5.10.2. Market size and forecast, by source

8.5.10.3. Market size and forecast, by recycling process

8.5.10.4. Market size and forecast, by end-use

#### 8.5.10.4.1. Market size and forecast, by non-automotive end-use

## **CHAPTER 9: COMPETITIVE LANDSCAPE**

### 9.1. Introduction

#### 9.1.1. Market player positioning, 2019

### 9.2. Top winning strategies

#### 9.2.1. Top winning strategies, by year

#### 9.2.2. Top winning strategies, by development

#### 9.2.3. Top winning strategies, by company

### 9.3. Product mapping of top 10 players

### 9.4. Competitive heatmap

### 9.5. Key developments

#### 9.5.1. New product launches

#### 9.5.2. Business expansion

#### 9.5.3. Acquisitions

#### 9.5.4. Agreement

## **CHAPTER 10: COMPANY PROFILES**

### 10.1. GANFENG LITHIUM CO., LTD.

#### 10.1.1. Company overview

#### 10.1.2. Company snapshot

#### 10.1.3. Operating business segments

#### 10.1.4. Product portfolio

#### 10.1.5. Business performance

### 10.2. AMERICAN BATTERY SOURCE CORPORATION

#### 10.2.1. Company overview

#### 10.2.2. Company snapshot

#### 10.2.3. Product portfolio

### 10.3. ACCUREC RECYCLING GMBH

#### 10.3.1. Company overview

#### 10.3.2. Company snapshot

#### 10.3.3. Product portfolio

### 10.4. AKKUSER OY

#### 10.4.1. Company overview

#### 10.4.2. Company snapshot

#### 10.4.3. Product portfolio

### 10.5. Duesenfeld GmbH

- 10.5.1.Company overview
- 10.5.2.Company snapshot
- 10.5.3.Product portfolio
- 10.5.4.Key strategic moves and developments
- 10.6.LI-CYCLE CORP.
  - 10.6.1.Company overview
  - 10.6.2.Company snapshot
  - 10.6.3.Product portfolio
  - 10.6.4.Key strategic moves and developments
- 10.7.FORTUM CORPORATION
  - 10.7.1.Company overview
  - 10.7.2.Company snapshot
  - 10.7.3.Operating business segments
  - 10.7.4.Product portfolio
  - 10.7.5.Business performance
- 10.8.Retriev Technologies, Inc.
  - 10.8.1.Company overview
  - 10.8.2.Company snapshot
  - 10.8.3.Product portfolio
- 10.9.Lithion Recycling, Inc.
  - 10.9.1.Company overview
  - 10.9.2.Company snapshot
  - 10.9.3.Product portfolio
  - 10.9.4.Key strategic moves and developments
- 10.10.Umicore
  - 10.10.1.Company overview
  - 10.10.2.Company snapshot
  - 10.10.3.Operating business segments
  - 10.10.4.Product portfolio
  - 10.10.5.Business performance
  - 10.10.6.Key strategic moves and developments



## List Of Tables

### LIST OF TABLES

TABLE 01.GLOBAL LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 02.LITHIUM-IRON PHOSPHATE BATTERY RECYCLING MARKET, BY REGION, 2020–2030 (\$MILLION)

TABLE 03.LITHIUM-MANGANESE OXIDE BATTERY RECYCLING MARKET, BY REGION, 2020–2030 (\$MILLION)

TABLE 04.LITHIUM-NICKEL-COBALT-ALUMINUM OXIDE BATTERY RECYCLING MARKET, BY REGION, 2020–2030 (\$MILLION)

TABLE 05.LITHIUM-NICKEL-MANGANESE-COBALT BATTERY RECYCLING MARKET, BY REGION, 2020–2030 (\$MILLION)

TABLE 06.LITHIUM-TITANATE OXIDE BATTERY RECYCLING MARKET, BY REGION, 2020–2030 (\$MILLION)

TABLE 07.GLOBAL LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 08.LITHIUM-ION BATTERY RECYCLING MARKET BY ELECTRIC VEHICLES, BY REGION, 2020–2030 (\$MILLION)

TABLE 09.LITHIUM-ION BATTERY RECYCLING MARKET BY ELECTRONICS, BY REGION, 2020–2030 (\$MILLION)

TABLE 10.LITHIUM-ION BATTERY RECYCLING MARKET BY POWER TOOLS, BY REGION, 2020–2030 (\$MILLION)

TABLE 11.LITHIUM-ION BATTERY RECYCLING MARKET BY OTHERS, BY REGION, 2020–2030 (\$MILLION)

TABLE 12.GLOBAL LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 13.LITHIUM-ION BATTERY RECYCLING MARKET BY HYDROMETALLURGICAL PROCESS, BY REGION, 2020–2030 (\$MILLION)

TABLE 14.LITHIUM-ION BATTERY RECYCLING MARKET BY PHYSICAL/MECHANICAL PROCESS, BY REGION, 2020–2030 (\$MILLION)

TABLE 15.LITHIUM-ION BATTERY RECYCLING MARKET BY PYROMETALLURGY PROCESS, BY REGION, 2020–2030 (\$MILLION)

TABLE 16.GLOBAL LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 17.LITHIUM-ION BATTERY RECYCLING MARKET FOR AUTOMOTIVE, BY REGION, 2020–2030 (\$MILLION)

TABLE 18.LITHIUM-ION BATTERY RECYCLING MARKET FOR NON-AUTOMOTIVE,



BY REGION, 2020–2030 (\$MILLION)

TABLE 19.LITHIUM-ION BATTERY RECYCLING MARKET BY NON-AUTOMOTIVE  
END-USES, 2020–2030 (\$MILLION)

TABLE 20.LITHIUM-ION BATTERY RECYCLING MARKET FOR CONSUMER  
ELECTRONICS, BY REGION, 2020–2030 (\$MILLION)

TABLE 21.LITHIUM-ION BATTERY RECYCLING MARKET FOR INDUSTRIAL, BY  
REGION, 2020–2030 (\$MILLION)

TABLE 22.LITHIUM-ION BATTERY RECYCLING MARKET, BY REGION, 2020-2030  
(\$MILLION)

TABLE 23.NORTH AMERICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 24.NORTH AMERICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
SOURCE, 2020–2030 (\$MILLION)

TABLE 25.NORTH AMERICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 26.NORTH AMERICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
END-USE, 2020–2030 (\$MILLION)

TABLE 27.NORTH AMERICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 28.NORTH AMERICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
COUNTRY, 2020–2030 (\$MILLION)

TABLE 29.THE U.S. LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY  
CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 30.THE U.S. LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE,  
2020–2030 (\$MILLION)

TABLE 31.THE U.S. LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING  
PROCESS, 2020–2030 (\$MILLION)

TABLE 32.THE U.S. LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE,  
2020–2030 (\$MILLION)

TABLE 33.THE U.S. LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-  
AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 34.CANADA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY  
CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 35.CANADA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE,  
2020–2030 (\$MILLION)

TABLE 36.CANADA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING  
PROCESS, 2020–2030 (\$MILLION)

TABLE 37.CANADA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE,  
2020–2030 (\$MILLION)

TABLE 38.CANADA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 39.MEXICO LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 40.MEXICO LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 41.MEXICO LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 42.MEXICO LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 43.MEXICO LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 44.EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 45.EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 46.EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 47.EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 48.EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 49.EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY COUNTRY, 2020–2030 (\$MILLION)

TABLE 50.GERMANY LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 51.GERMANY LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 52.GERMANY LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 53.GERMANY LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 54.GERMANY LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 55.FRANCE LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 56.FRANCE LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 57.FRANCE LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING

PROCESS, 2020–2030 (\$MILLION)

TABLE 58.FRANCE LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 59.FRANCE LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 60.ITALY LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 61.ITALY LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 62.ITALY LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 63.ITALY LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 64.ITALY LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 65.SPAIN LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 66.SPAIN LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 67.SPAIN LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 68.SPAIN LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 69.SPAIN LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 70.UK LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 71.UK LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 72.UK LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 73.UK LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 74.UK LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 75.REST OF EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 76.REST OF EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 77.REST OF EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 78.REST OF EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 79.REST OF EUROPE LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 80.ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 81.ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 82.ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 83.ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 84.ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 85.ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY COUNTRY, 2020–2030 (\$MILLION)

TABLE 86.CHINA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 87.CHINA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 88.CHINA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 89.CHINA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 90.CHINA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 91.JAPAN LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 92.JAPAN LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 93.JAPAN LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 94.JAPAN LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 95.JAPAN LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 96.INDIA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY

CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 97.INDIA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 98.INDIA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 99.INDIA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 100.INDIA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 101.SOUTH KOREA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 102.SOUTH KOREA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 103.SOUTH KOREA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 104.SOUTH KOREA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 105.SOUTH KOREA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 106.AUSTRALIA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 107.AUSTRALIA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 108.AUSTRALIA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 109.AUSTRALIA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 110.AUSTRALIA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 111.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 112.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 113.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 114.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 115.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 116.LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 117.LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 118.LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 119.LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 120.LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 121.LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY COUNTRY, 2020–2030 (\$MILLION)

TABLE 122.BRAZIL LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 123.BRAZIL LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 124.BRAZIL LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 125.BRAZIL LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 126.BRAZIL LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 127.SAUDI ARABIA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 128.SAUDI ARABIA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 129.SAUDI ARABIA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 130.SAUDI ARABIA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-USE, 2020–2030 (\$MILLION)

TABLE 131.SAUDI ARABIA LITHIUM-ION BATTERY RECYCLING MARKET, BY NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 132.SOUTH AFRICA LITHIUM-ION BATTERY RECYCLING MARKET, BY BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 133.SOUTH AFRICA LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2020–2030 (\$MILLION)

TABLE 134.SOUTH AFRICA LITHIUM-ION BATTERY RECYCLING MARKET, BY RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 135.SOUTH AFRICA LITHIUM-ION BATTERY RECYCLING MARKET, BY END-



USE, 2020–2030 (\$MILLION)

TABLE 136.SOUTH AFRICA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 137.REST OF LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
BATTERY CHEMISTRY, 2020–2030 (\$MILLION)

TABLE 138.REST OF LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
SOURCE, 2020–2030 (\$MILLION)

TABLE 139.REST OF LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
RECYCLING PROCESS, 2020–2030 (\$MILLION)

TABLE 140.REST OF LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
END-USE, 2020–2030 (\$MILLION)

TABLE 141.REST OF LAMEA LITHIUM-ION BATTERY RECYCLING MARKET, BY  
NON-AUTOMOTIVE END-USE, 2020–2030 (\$MILLION)

TABLE 142.KEY NEW PRODUCT LAUNCHES (2016-2020)

TABLE 143.KEY BUSINESS EXPANSION (2016-2020)

TABLE 144.KEY ACQUISITIONS (2016-2020)

TABLE 145.KEY AGREEMENT (2016-2020)

TABLE 146.GANFENG LITHIUM CO., LTD.: COMPANY SNAPSHOT

TABLE 147.GANFENG LITHIUM CO., LTD.: OPERATING SEGMENTS

TABLE 148.GANFENG LITHIUM CO., LTD.

TABLE 149.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 150.ABTC: COMPANY SNAPSHOT

TABLE 151.ABTC: PRODUCT PORTFOLIO

TABLE 152.ACCUREC: COMPANY SNAPSHOT

TABLE 153.ACCUREC: PRODUCT PORTFOLIO

TABLE 154.AKKUSER OY: COMPANY SNAPSHOT

TABLE 155.AKKUSER OY: PRODUCT PORTFOLIO

TABLE 156.DUESENFELD GMBH: COMPANY SNAPSHOT

TABLE 157.DUESENFELD GMBH: PRODUCT PORTFOLIO

TABLE 158.DUESENFELD GMBH: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 159.LI-CYCLE CORP.: COMPANY SNAPSHOT

TABLE 160.LI-CYCLE CORP.: PRODUCT PORTFOLIO

TABLE 161.LI-CYCLE CORP.: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 162.FORTUM: COMPANY SNAPSHOT

TABLE 163.FORTUM: OPERATING SEGMENTS

TABLE 164.FORTUM: PRODUCT PORTFOLIO

TABLE 165.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 166.RETRIEV TECHNOLOGIES, INC.: COMPA

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