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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

https://marketpublishers.com/r/L9CD69984BDAEN.html
Date: June 2021
Pages: 320
Price: US$ 4,615.00 (Single User License)
ID: L9CD69984BDAEN

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 LiClO4, LiBF4, and LiPF6. 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.

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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.

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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

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- 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

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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

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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

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