

Battery Recycling Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Chemistry (Lithium-ion, Lead Acid, Nickel), By Application (Transportation, Consumer Electronics, Industrial, and Others), By Source (Industrial Batteries, Automotive Batteries, and Customer & Electronic Appliances Batteries), By Region, Competition 2018-2028

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Abstracts

Global Battery Recycling Market has valued at USD 23.58 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 12.05% through 2028. A Battery Recycling is a Chemistry of energy storage device that utilizes carbon-based materials as both the anode and cathode, as opposed to traditional lithium-ion batteries where one electrode is made of lithium-based materials. This technology is also sometimes referred to as 'Dual Carbon' or 'Dual-Carbon' capacitors. Safety: Dual Carbon Batteries are considered safer than traditional lithium-ion batteries because they are less prone to thermal runaway and the risk of fire or explosion is significantly reduced. These batteries have a longer lifespan compared to many lithium-ion batteries, which can degrade over time with repeated charge and discharge cycles. Dual Carbon Batteries are known for their fast-charging capabilities, making them suitable for Sources where rapid energy storage and discharge are required. Dual Carbon Batteries are more environmentally friendly because they use carbon-based materials that are abundant and can be recycled. They can deliver high power outputs, which makes them suitable for Sources where bursts of energy are required, such as in electric vehicles (EVs) and renewable energy storage systems. Dual Carbon Batteries have a wide range of potential Sources, including electric vehicles, renewable energy

storage, consumer electronics, and more. Now, regarding the 'Global Battery Recycling Market,' this refers to the worldwide market for the production, sale, and adoption of Dual Carbon Batteries and related technologies. The market includes various players, such as battery manufacturers, technology developers, research organizations, and end-users (e.g., automotive companies, renewable energy projects) who are interested in adopting this technology for their specific needs.

Key Market Drivers

The global Battery Recycling market is witnessing significant growth and innovation in recent years, driven by a combination of technological advancements, increasing demand for clean energy solutions, and a growing awareness of the environmental and safety benefits associated with dual carbon batteries. This article explores the key drivers behind the expansion of the Battery Recycling market and provides insights into the factors contributing to its rapid development.

Dual carbon batteries, also known as dual carbon capacitors or dual carbon supercapacitors, are advanced energy storage devices that utilize carbon-based materials for both the anode and cathode. Unlike traditional lithium-ion batteries, which rely on lithium-based materials for one electrode, dual carbon batteries leverage carbon's unique properties to offer several advantages. These advantages have propelled them into the spotlight of the global energy storage market. Key Drivers of the Global Battery Recycling Market Safety has always been a paramount concern in the battery industry. Dual carbon batteries, with their reduced risk of thermal runaway and fire hazards compared to lithium-ion batteries, are gaining attention as a safer alternative. As safety regulations become more stringent, industries and consumers are looking for safer energy storage options. The increasing global focus on sustainability and environmental protection has accelerated the demand for clean energy solutions. Dual carbon batteries, made primarily of carbon, are considered more eco-friendly compared to lithium-ion batteries, which rely on rare and environmentally intensive materials. This alignment with sustainability goals is a strong driver for their adoption. The expansion of renewable energy sources, such as wind and solar, requires efficient energy storage systems to balance supply and demand. Dual carbon batteries offer fast charging and discharging capabilities, making them ideal for storing renewable energy and addressing grid instability issues. The automotive industry is undergoing a profound transformation towards electric vehicles. Dual carbon batteries' quick charging capabilities, extended lifespan, and safety features make them a promising option for EV manufacturers looking to improve performance and safety while reducing charging times. The demand for longer-lasting and faster-charging batteries in consumer

electronics, such as smartphones and laptops, is a significant driver for the Battery Recycling market. Consumers increasingly value devices that can stay powered for longer periods and recharge rapidly.

Industrial and IoT Sources

Industries and the Internet of Things (IoT) sector require reliable and long-lasting energy storage solutions. Dual carbon batteries' durability and power density make them suitable for various industrial Sources and the growing network of IoT devices. Ongoing research and development efforts in the field of dual carbon batteries have led to improvements in performance, cost reduction, and scalability. As technology matures, it becomes more commercially viable, further driving market growth. The disruption in the global supply chain for critical materials, particularly in the wake of the COVID-19 pandemic, has prompted industries to explore alternative technologies that are less reliant on scarce or geopolitically sensitive resources. Dual carbon batteries offer a path to reduce this dependency. As more companies enter the Battery Recycling market, competition is intensifying. This competition often leads to innovation, cost reductions, and broader market adoption as companies strive to differentiate themselves and capture market share. Governments worldwide are promoting the adoption of clean energy technologies, including energy storage solutions. Subsidies, incentives, and policies aimed at reducing greenhouse gas emissions and promoting energy efficiency create a favorable environment for dual carbon batteries. The global Battery Recycling market is witnessing rapid growth, driven by a confluence of factors ranging from safety concerns and environmental sustainability to the increasing demand for energy storage solutions across various sectors. As the technology continues to mature and overcome its challenges, dual carbon batteries have the potential to play a pivotal role in the transition to cleaner, more efficient energy systems, benefiting industries, consumers, and the planet as a whole. While challenges remain, ongoing research, innovation, and market competition are likely to drive further advancements and broaden the adoption of dual carbon batteries in the years to come.

Key Market Challenges

Scale-Up Challenges

The scalability of Battery Recycling production remains a challenge. To compete with established technologies like lithium-ion batteries, the manufacturing processes for dual carbon batteries must be optimized for mass production. While dual carbon batteries excel in power density, they have a lower energy density compared to some other

energy storage technologies. This limitation may restrict their use in Sources requiring high energy storage capacity. Achieving cost parity with existing battery technologies is essential for widespread adoption. Innovations in materials, manufacturing techniques, and economies of scale will be crucial in reducing the cost of dual carbon batteries. The Battery Recycling market is still relatively niche, and awareness among potential users and investors needs to increase. Education and information dissemination about the benefits and Sources of these batteries will play a pivotal role. Regulatory standards and certifications need to be developed and adopted to ensure the safety and quality of dual carbon batteries. This is especially important in industries like automotive and aviation.

The global Battery Recycling market is experiencing rapid growth and innovation, driven by factors like safety concerns, sustainability, and the need for efficient energy storage solutions. However, like any emerging technology, dual carbon batteries face a range of challenges that must be addressed to unlock their full potential. In this article, we'll explore the key challenges facing the global Battery Recycling market and examine the opportunities for overcoming them. Dual carbon batteries, also known as dual carbon capacitors or dual carbon supercapacitors, are advanced energy storage devices that use carbon-based materials for both the anode and cathode. This technology offers several advantages over traditional lithium-ion batteries, including enhanced safety, environmental sustainability, and faster charging capabilities.

Energy Density & Scalability

One of the primary challenges for dual carbon batteries is their energy density. While they excel in power density, which enables quick charging and discharging, their energy density (the amount of energy stored per unit of weight or volume) is generally lower than that of lithium-ion batteries. This limitation makes dual carbon batteries less suitable for Sources requiring high energy storage capacity, such as long-range electric vehicles (EVs). Scalability remains a critical challenge. To compete with well-established battery technologies like lithium-ion, Battery Recycling manufacturing processes need to be optimized for mass production. Scaling up production while maintaining quality and cost-effectiveness is a complex task that requires substantial investment and innovation.

Key Market Trends

Advancements in Materials Science

Researchers and manufacturers are continually exploring advanced carbon materials to improve the performance of dual carbon batteries. This includes the development of new carbon composites, nanostructured materials, and carbon allotropes, which can enhance energy density and charge-discharge efficiency. One of the primary trends in the Battery Recycling market is focused on increasing energy density. While these batteries excel in power density, efforts are underway to improve their energy storage capacity, making them more suitable for Sources requiring longer-range electric vehicles and larger-scale energy storage systems.

Fast Charging and High-Power Sources

Dual carbon batteries are well-suited for Sources requiring rapid charging and discharging, such as electric vehicles and grid stabilization. This trend aligns with the growing demand for quick and efficient energy storage solutions in a variety of sectors. Integrating dual carbon batteries with other energy storage technologies, such as lithium-ion batteries or flow batteries, is gaining traction. This hybrid approach allows for improved energy density and optimized performance for specific Sources, providing flexibility and efficiency. Collaboration between research institutions, battery manufacturers, and government agencies is fostering innovation in the Battery Recycling field. Joint research initiatives are leading to breakthroughs in materials, manufacturing techniques, and cost-effective production.

Sustainability and Environmental Concerns

Environmental sustainability is a significant driver in the adoption of dual carbon batteries. These batteries, composed primarily of carbon materials, are considered more eco-friendly compared to traditional lithium-ion batteries, which rely on scarce and potentially harmful resources. While electric vehicles are a prominent Source, dual carbon batteries are finding use in other sectors as well. These include renewable energy storage, consumer electronics, industrial Sources, and even aerospace, where safety and reliability are critical. As sustainability becomes a focal point, the recycling and reuse of battery components are emerging trends. Developing efficient recycling processes for dual carbon batteries can reduce waste, lower production costs, and address environmental concerns.

Government Support and Regulations

Governments worldwide are recognizing the potential of dual carbon batteries in achieving clean energy goals. Supportive policies, incentives, and regulations are

encouraging research, development, and adoption of this technology. Recent disruptions in global supply chains have underscored the importance of diversification and resilience. Dual carbon batteries, with their reduced reliance on critical materials, offer a more stable supply chain, making them attractive to industries and governments.

Segmental Insights

Source Insights

Dual carbon batteries are expected to significantly extend the length of charge and the overall lifetime while greatly reducing cost, charge times, and environmental impact. Moreover, the high energy density of these batteries is expected to increase the demand in the automotive industry in the coming years. The increasing demand for high-end batteries from electric vehicles (EVs) is another major factor driving the Battery Recycling market. The manufacturers of these batteries have stated that the batteries could give a modern electric vehicle a range of almost 500 kilometers (300 miles). Although dual carbon batteries promise to revolutionize the automotive battery segment, the low production rate of these batteries and the dominance of alternatives, such as lithium-ion batteries, in the market are expected to slow down the market growth for the next few years. The dual carbon technology has not yet been deployed on a large scale, and manufacturers are still struggling to penetrate into the automotive sector. Moreover, companies such as Power Japan Plus (PJP) are planning to introduce their dual carbon batteries to the medical device segment and satellites and eventually into the automotive industry. Thus, based on the above-mentioned factors, the transportation segment is likely to experience significant growth during the forecast period.

Regional Insights

The Asia Pacific region has established itself as the leader in the Global Battery Recycling Market with a significant revenue share in 2022. The Asia-Pacific battery market as a whole is expected to grow significantly over the coming decade due to increased electrification activities in the region. The Battery Recycling has not yet penetrated the market on a significant level. The battery market in this region is mainly driven by developments in the electronics manufacturing, power generation, communication, and information industries in countries like India, China, Japan, and South Korea. Developing countries, like India, lack a firm grid infrastructure, which causes power cuts and blackouts frequently, mostly in rural areas. Thus, the lack of grid infrastructure, high demand for steady power, and the need for power backup solutions are expected to drive the demand for industrial dual carbon batteries. Moreover, the

governments of various countries have taken initiatives to finance energy storage projects to fulfill the energy requirements in their countries. China and a few South Asian countries are coming up with new business models and associated financing instruments to invest capital in battery energy storage projects. In a short-term scenario, however, the region is likely to witness challenges from rising prices of graphite carbon, which is a major raw material used in the Battery Recycling manufacturing process. Rising prices of graphite carbon are majorly a result of a sharp cut in the supply of graphite electrodes from China. In the present scenario, the demand for graphite electrodes is significantly higher compared to the supply. Research on Battery Recycling technology is also underway in the region. For instance, in April 2021, researchers at IIT Hyderabad, India, developed a Battery Recycling that can cut the overall battery cost by as much as 20-25%, along with being environment-friendly. Further research is underway to increase the energy density of the battery. Therefore, based on the above-mentioned factors, Asia-Pacific is expected to witness significant growth during the forecast period.

Key Market Players

Umicore

Retriev Technologies

American Battery Technology Company (ABTC)

Li-Cycle

Aqua Metals

Battery Solutions

Recupyl

Gopher Resource

Glencore Recycling

Retech Recycling Technology AB.

Report Scope:

In this report, the Global Battery Recycling Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Battery Recycling Market, By Chemistry:

Lithium-ion

Lead Acid

Nickel

Global Battery Recycling Market, By Source:

Industrial Batteries

Automotive Batteries

Customer & Electronic Appliances Batteries

Global Battery Recycling Market, By Application:

Transportation

Consumer Electronics

Industrial

Others

Global Battery Recycling Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Battery Recycling Market.

Available Customizations:

Global Battery Recycling Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL BATTERY RECYCLING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Chemistry (Lithium-ion, Lead Acid, Nickel)
 - 5.2.2. By Application (Transportation, Consumer Electronics, Industrial, and Others)
 - 5.2.3. By Source (Industrial Batteries, Automotive Batteries, and Customer & Electronic Appliances Batteries)
 - 5.2.4. By Region
- 5.3. By Company (2022)
- 5.4. Market Map

6. NORTH AMERICA BATTERY RECYCLING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Chemistry
 - 6.2.2. By Application
 - 6.2.3. By Source
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Battery Recycling Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Chemistry
 - 6.3.1.2.2. By Application
 - 6.3.1.2.3. By Source
 - 6.3.2. Canada Battery Recycling Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Chemistry
 - 6.3.2.2.2. By Application
 - 6.3.2.2.3. By Source
 - 6.3.3. Mexico Battery Recycling Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Chemistry
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By Source

7. ASIA-PACIFIC BATTERY RECYCLING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Chemistry
 - 7.2.2. By Application
 - 7.2.3. By Source
 - 7.2.4. By Country

- 7.3. Asia-Pacific: Country Analysis
 - 7.3.1. China Battery Recycling Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Chemistry
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Source
 - 7.3.2. India Battery Recycling Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Chemistry
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Source
 - 7.3.3. Japan Battery Recycling Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Chemistry
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By Source
 - 7.3.4. South Korea Battery Recycling Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Chemistry
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By Source
 - 7.3.5. Indonesia Battery Recycling Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Chemistry
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By Source

8. EUROPE BATTERY RECYCLING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Chemistry
 - 8.2.2. By Application
 - 8.2.3. By Source
 - 8.2.4. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Battery Recycling Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Chemistry
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Source
 - 8.3.2. United Kingdom Battery Recycling Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Chemistry
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Source
 - 8.3.3. France Battery Recycling Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Chemistry
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By Source
 - 8.3.4. Russia Battery Recycling Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Chemistry
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By Source
 - 8.3.5. Spain Battery Recycling Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Chemistry

8.3.5.2.2. By Application

8.3.5.2.3. By Source

9. SOUTH AMERICA BATTERY RECYCLING MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Chemistry

9.2.2. By Application

9.2.3. By Source

9.2.4. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Battery Recycling Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Chemistry

9.3.1.2.2. By Application

9.3.1.2.3. By Source

9.3.2. Argentina Battery Recycling Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Chemistry

9.3.2.2.2. By Application

9.3.2.2.3. By Source

10. MIDDLE EAST & AFRICA BATTERY RECYCLING MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Chemistry

10.2.2. By Application

10.2.3. By Source

10.2.4. By Country

- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Battery Recycling Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Chemistry
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By Source
 - 10.3.2. South Africa Battery Recycling Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Chemistry
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By Source
 - 10.3.3. UAE Battery Recycling Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Chemistry
 - 10.3.3.2.2. By Application
 - 10.3.3.2.3. By Source
 - 10.3.4. Israel Battery Recycling Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Chemistry
 - 10.3.4.2.2. By Application
 - 10.3.4.2.3. By Source
 - 10.3.5. Egypt Battery Recycling Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Chemistry
 - 10.3.5.2.2. By Application
 - 10.3.5.2.3. By Source

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. Umicore
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel
 - 13.1.5. Key Product/Services
- 13.2. Retrieval Technologies
 - 13.2.1. Business Overview
 - 13.2.2. Key Revenue and Financials
 - 13.2.3. Recent Developments
 - 13.2.4. Key Personnel
 - 13.2.5. Key Product/Services
- 13.3. American Battery Technology Company (ABTC)
 - 13.3.1. Business Overview
 - 13.3.2. Key Revenue and Financials
 - 13.3.3. Recent Developments
 - 13.3.4. Key Personnel
 - 13.3.5. Key Product/Services
- 13.4. Li-Cycle
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. Aqua Metals
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. Battery Solutions
 - 13.6.1. Business Overview

- 13.6.2. Key Revenue and Financials
- 13.6.3. Recent Developments
- 13.6.4. Key Personnel
- 13.6.5. Key Product/Services
- 13.7. Recupyl
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. Gopher Resource
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel
 - 13.8.5. Key Product/Services
- 13.9. Glencore Recycling
 - 13.9.1. Business Overview
 - 13.9.2. Key Revenue and Financials
 - 13.9.3. Recent Developments
 - 13.9.4. Key Personnel
 - 13.9.5. Key Product/Services
- 13.10. Retech Recycling Technology AB
 - 13.10.1. Business Overview
 - 13.10.2. Key Revenue and Financials
 - 13.10.3. Recent Developments
 - 13.10.4. Key Personnel
 - 13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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