

# Asia-Pacific Lithium-Ion Battery Recycling Market: Focus on Battery Chemistry, Source, Recycling Process, and Country - Analysis and Forecast, 2023-2033

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## Abstracts

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### Introduction to Asia-Pacific Lithium-Ion Battery Recycling Market

The Asia-Pacific lithium-ion battery recycling market was valued at \$2,304.7 million in 2023, and it is expected to grow at a CAGR of 21.85% and reach \$16,629.5 million by 2033. The expansion of the lithium-ion battery recycling market is driven by the rising demand for electric vehicles (EVs), portable electronics, and renewable energy storage systems. As these batteries reach the end of their lifecycle or become outdated, the necessity to recycle them effectively to reclaim valuable materials and mitigate environmental impact is increasingly important.

### Market Introduction

The Asia-Pacific (APAC) lithium-ion battery recycling market is witnessing robust growth due to the region's accelerating adoption of electric vehicles (EVs), the proliferation of portable electronics, and the expansion of renewable energy systems. Countries like China, Japan, and South Korea are leading this surge, driven by stringent environmental regulations, government incentives, and the urgent need to manage battery waste. Efficient recycling processes are crucial for recovering valuable materials like lithium, cobalt, and nickel, reducing dependency on raw material imports, and

mitigating environmental hazards. The market's expansion is further supported by advancements in recycling technologies and increasing investments in recycling infrastructure, positioning APAC as a key player in the lithium-ion battery recycling industry.

#### Market Segmentation:

##### Segmentation 1: by Battery Chemistry

Lithium-Cobalt Oxide (LCO)

Lithium-Nickel Manganese Cobalt (Li-NMC)

Lithium-Manganese Oxide (LMO)

Lithium-Iron Phosphate (LFP)

Lithium-Nickel Cobalt Aluminum Oxide (NCA)

Others

##### Segmentation 2: by Source

Automotive

Non-Automotive

Consumer Electronics

Energy Storage Systems

Others

##### Segmentation 3: by Recycling Process

Hydrometallurgy

Pyrometallurgy

Direct Recycling

#### Segmentation 4: by Country

China

Japan

South Korea

India

Rest-of-Asia-Pacific

How can this report add value to an organization?

**Product/Innovation Strategy:** The product segment helps the reader understand the different applications of the lithium-ion battery recycling products available based on battery chemistry (lithium-cobalt oxide (LCO), lithium-nickel manganese cobalt (Li-NMC), lithium-iron phosphate (LFP), lithium-manganese oxide (LMO), lithium-nickel cobalt aluminum oxide (NCA), and others), source (automotive and non-automotive), recycling process (hydrometallurgy, pyrometallurgy, and direct recycling). The market is poised for significant expansion with ongoing technological advancements, increased investments, and growing awareness of the importance of recycling. Therefore, the lithium-ion battery recycling business is a high-investment and high-revenue generating model.

**Growth/Marketing Strategy:** The lithium-ion battery recycling market has been growing at a rapid pace. The market offers enormous opportunities for existing and emerging market players. Some of the strategies covered in this segment are mergers and acquisitions, product launches, partnerships and collaborations, business expansions, and investments. The strategies preferred by companies to maintain and strengthen their market position primarily include product development.

**Competitive Strategy:** The key players in the Asia-Pacific lithium-ion battery recycling

market analyzed and profiled in the study include lithium-ion battery recycling manufacturers that develop, maintain, and market lithium-ion battery recycling materials. Additionally, corporate strategies such as partnerships, agreements, and collaborations are expected to aid the reader in understanding the untapped revenue pockets in the market.

### Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analysing company coverage, product portfolio, and market penetration.

Some prominent names established in this market are:

Contemporary Amperex Technology Co., Limited

Ganfeng Lithium Co., Ltd.

Neometals Ltd

Sumitomo Metal Mining Co., Ltd.

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