

Asia-Pacific Low Carbon Aluminum Market: Analysis and Forecast, 2022-2031

<https://marketpublishers.com/r/A9769982ACD2EN.html>

Date: February 2024

Pages: 96

Price: US\$ 2,950.00 (Single User License)

ID: A9769982ACD2EN

Abstracts

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Introduction to Asia-Pacific Low-Carbon Aluminum Market

The Asia-Pacific low-carbon aluminum market (excluding China) is projected to reach \$22.46 billion by 2031 from \$16.19 billion in 2022, growing at a CAGR of 3.7% during the forecast period 2022-2031. The growing demand for low-carbon aluminum is being driven by the rising popularity of electric vehicles, which utilize lightweight materials. Among various sectors, the automotive industry stands out for its significant efforts toward decarbonization, leading to widespread adoption of low-carbon aluminum. Government regulations further incentivize the use of low-carbon aluminum, as it aids in reducing vehicle weight, thereby enhancing fuel efficiency. Additionally, low-carbon aluminum contributes to reducing CO2 emissions, making it an environmentally friendly choice for automotive applications.

Market Introduction

The Asia-Pacific (APAC) low-carbon aluminum market is experiencing robust growth, largely driven by the increasing adoption of electric vehicles (EVs) in the region. EV manufacturers prioritize lightweight materials like low-carbon aluminum to improve vehicle efficiency and range. The automotive industry, in particular, is at the forefront of this trend, focusing on decarbonization efforts and witnessing significant uptake of low-carbon aluminum. Government initiatives and regulations aimed at reducing carbon emissions further bolster market growth by incentivizing the use of environmentally

friendly materials. Moreover, the APAC region's rapid industrialization and infrastructure development contribute to the rising demand for low-carbon aluminum in construction and manufacturing sectors. With these factors in play, the APAC low-carbon aluminum market presents promising opportunities for sustainable growth and innovation across various industries.

Market Segmentation

Segmentation 1: by End User

Transportation

Building and Construction

Electrical Industry

Consumer Goods

Foil and Packaging

Machinery and Equipment

Others

Segmentation 2: by Source of Production

Solar Energy

Wind Energy

Hydro Energy

Recycling

Carbon Capture and Storage (CCS)

Others

Segmentation 3: by Product

Flat-Rolled

Castings

Extrusion

Forgings

Rod and Bar

Others

Segmentation 4: by Country

Japan

India

South Korea

ASEAN

Rest-of-Asia-Pacific and Japan

How can this report add value to an organization?

Product/Innovation Strategy: The product segment helps the reader understand the different sources of production and products involved in the low-carbon aluminum market. The source of production segment has been segmented into solar energy, wind energy, hydro energy, recycling, carbon capture and storage (CCS), and others. The product segment has been segmented into flat-rolled, castings, extrusion, forgings, rod and bar, and others. Moreover, the study provides the reader with a detailed understanding of the low-carbon aluminum market based on end users, including transportation, building and construction, the electrical industry, consumer goods, foil and packaging, machinery and equipment, and others. The increasing adoption of low-

carbon aluminum in manufacturing components in sustainable technologies is expected to fuel the growth of the market.

Growth/Marketing Strategy: The APAC low-carbon aluminum market has seen major development by key players operating in the market, such as business expansions, partnerships, collaborations, mergers and acquisitions, and joint ventures. The favored strategy for the companies has been business expansions to strengthen their position in the low-carbon aluminum market.

Competitive Strategy: Key players in the APAC low-carbon aluminum market analyzed and profiled in the study involve low-carbon aluminum producers and the overall ecosystem. Moreover, a detailed competitive benchmarking of the players operating in the low-carbon aluminum market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, acquisitions, and collaborations will 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 thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights gathered from primary experts.

Some prominent names established in this market are:

Vedanta Aluminum and Power

Capral Limited

South32

Indonesia Asahan Aluminium

Contents

Executive Summary

Scope of the Study

1 MARKETS

1.1 Industry Outlook

1.1.1 Trends: Current and Future

1.1.1.1 Increasing Investments in Low-Carbon Aluminum

1.1.1.2 Government Activities toward the Establishment of Low-carbon Infrastructure

1.1.2 Supply Chain Analysis

1.1.3 Ecosystem of Low-Carbon Aluminum Market

1.1.3.1 Consortiums and Associations

1.1.3.2 Regulatory/Certification Bodies

1.1.3.3 Government Programs

1.1.4 Impact of COVID-19 on the Low-Carbon Aluminum Market

1.2 Business Dynamics

1.2.1 Business Drivers

1.2.1.1 Increasing Attention of Governments toward Decarbonization of Core

Contributing Commodities

1.2.1.2 Growing Research and Development Activities to Achieve Near Zero

Emissions

1.2.2 Business Challenges

1.2.2.1 Lower Recycling Rates for Aluminum in Various Industries

1.2.2.2 Volatile Low-Carbon Aluminum Prices

1.2.3 Business Strategies

1.2.3.1 Product Developments

1.2.3.2 Market Developments

1.2.4 Corporate Strategies

1.2.4.1 Partnerships and Joint Ventures

1.2.5 Business Opportunities

1.2.5.1 Low-Carbon Aluminum in Niche Segments such as Ultra-Low-CO₂ Grades

1.2.5.2 Climate Mitigation Initiatives to Increase Demand for Sustainably Sourced

Aluminum

1.3 Start-Up Landscape

1.3.1 Key Start-Ups in the Ecosystem

2 REGIONS

2.1 China

2.1.1 Market

- 2.1.1.1 Buyer Attributes
- 2.1.1.2 Key Producers and Suppliers in China
- 2.1.1.3 Regulatory Landscape
- 2.1.1.4 Business Drivers
- 2.1.1.5 Business Challenges

2.1.2 Applications

- 2.1.2.1 China Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.1.3 Products

2.1.3.1 China Low-Carbon Aluminum Market (by Source of Production), Volume and Value Data

- 2.1.3.2 China Low-Carbon Aluminum Market (by Product), Volume and Value Data

2.2 Asia-Pacific and Japan

2.2.1 Markets

- 2.2.1.1 Key Producers and Suppliers in Asia-Pacific and Japan
- 2.2.1.2 Business Drivers
- 2.2.1.3 Business Challenges

2.2.2 Applications

2.2.2.1 Asia-Pacific and Japan Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.2.3 Products

2.2.3.1 Asia-Pacific and Japan Low-Carbon Aluminum Market (by Source of Production), Volume and Value Data

2.2.3.2 Asia-Pacific and Japan Low-Carbon Aluminum Market (by Product), Volume and Value Data

2.2.3.3 Japan

2.2.3.3.1 Markets

- 2.2.3.3.1.1 Buyer Attributes
- 2.2.3.3.1.2 Key Producers and Suppliers in Japan
- 2.2.3.3.1.3 Regulatory Landscape
- 2.2.3.3.1.4 Business Drivers
- 2.2.3.3.1.5 Business Challenges

2.2.3.3.2 Applications

2.2.3.3.2.1 Japan Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.2.3.3.3 Products

- 2.2.3.3.3.1 Japan Low-Carbon Aluminum Market (by Source of Production),

Volume and Value Data

2.2.3.3.3.2 Japan Low-Carbon Aluminum Market (by Product), Volume and Value

Data

2.2.3.4 South Korea

2.2.3.4.1 Markets

2.2.3.4.1.1 Buyer Attributes

2.2.3.4.1.2 Key Producers and Suppliers in South Korea

2.2.3.4.1.3 Regulatory Landscape

2.2.3.4.1.4 Business Drivers

2.2.3.4.1.5 Business Challenges

2.2.3.4.2 Applications

2.2.3.4.2.1 South Korea Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.2.3.4.3 Products

2.2.3.4.3.1 South Korea Low-Carbon Aluminum Market (by Source of Production), Volume and Value Data

2.2.3.4.3.2 South Korea Low-Carbon Aluminum Market (by Product), Volume and Value Data

Data

2.2.3.5 India

2.2.3.5.1 Markets

2.2.3.5.1.1 Buyer Attributes

2.2.3.5.1.2 Key Producers and Suppliers in India

2.2.3.5.1.3 Regulatory Landscape

2.2.3.5.1.4 Business Drivers

2.2.3.5.1.5 Business Challenges

2.2.3.5.2 Applications

2.2.3.5.2.1 India Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.2.3.5.3 Products

2.2.3.5.3.1 India Low-Carbon Aluminum Market (by Source of Production), Volume and Value Data

2.2.3.5.3.2 India Low-Carbon Aluminum Market (by Product), Volume and Value Data

Data

2.2.3.6 ASEAN

2.2.3.6.1 Markets

2.2.3.6.1.1 Buyer Attributes

2.2.3.6.1.2 Key Producers and Suppliers in ASEAN

2.2.3.6.1.3 Business Drivers

2.2.3.6.1.4 Business Challenges

2.2.3.6.2 Applications

2.2.3.6.2.1 ASEAN Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.2.3.6.3 Products

2.2.3.6.3.1 ASEAN Low-Carbon Aluminum Market (by Source of Production), Volume and Value Data

2.2.3.6.3.2 ASEAN Low-Carbon Aluminum Market (by Product), Volume and Value Data

2.2.3.7 Rest-of-Asia-Pacific and Japan

2.2.3.7.1 Markets

2.2.3.7.1.1 Buyer Attributes

2.2.3.7.1.2 Key Producers and Suppliers in the Rest-of-Asia-Pacific and Japan

2.2.3.7.1.3 Business Drivers

2.2.3.7.1.4 Business Challenges

2.2.3.7.2 Applications

2.2.3.7.2.1 Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by End User), Volume and Value Data

2.2.3.7.3 Products

2.2.3.7.3.1 Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by Source of Production), Volume and Value Data

2.2.3.7.3.2 Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by Product), Volume and Value Data

3 MARKETS – COMPETITIVE BENCHMARKING AND COMPANY PROFILES

3.1 Competitive Benchmarking

3.1.1 Competitive Position Matrix

3.1.2 Product Matrix of Key Companies, By Source of Production

3.1.3 Market Share Analysis of Key Companies, 2021

3.2 Company Profiles

3.2.1 Vedanta Aluminum and Power

3.2.1.1 Company Overview

3.2.1.1.1 Role of Vedanta Aluminum and Power in the Low-Carbon Aluminum Market

3.2.1.1.2 Production Sites

3.2.1.1.3 Product Portfolio

3.2.1.2 Business Strategies

3.2.1.2.1 Market Developments and Product Developments

3.2.1.3 Analyst View

3.2.2 China Hongqiao Group Limited

3.2.2.1 Company Overview

3.2.2.1.1 Role of China Hongqiao Group Limited in the Low-Carbon Aluminum Market

3.2.2.1.2 Production Sites

3.2.2.1.3 Product Portfolio

3.2.2.2 Business Strategies

3.2.2.2.1 Product Developments and Market Developments

3.2.2.3 Corporate Strategies

3.2.2.3.1 Partnerships, Collaborations, Agreements, Investments, and Contracts

3.2.2.4 R&D Analysis

3.2.2.5 Analyst View

3.2.3 Capral Limited

3.2.3.1 Company Overview

3.2.3.1.1 Role of Capral Limited in the Low-Carbon Aluminum Market

3.2.3.1.2 Production Sites

3.2.3.1.3 Product Portfolio

3.2.3.2 Business Strategies

3.2.3.2.1 Product Developments and Market Developments

3.2.3.3 Corporate Strategies

3.2.3.3.1 Partnerships, Collaborations, Agreements, Investments, and Contracts

3.2.3.4 Analyst View

3.2.4 South32

3.2.4.1 Company Overview

3.2.4.1.1 Role of South32 in the Low-Carbon Aluminum Market

3.2.4.1.2 Production Sites

3.2.4.1.3 Product Portfolio

3.2.4.2 Analyst View

3.2.5 PT Indonesia Asahan Aluminium

3.2.5.1 Company Overview

3.2.5.1.1 Role of PT Indonesia Asahan Aluminium in the Low-Carbon Aluminum Market

3.2.5.1.2 Production Sites

3.2.5.1.3 Product Portfolio

3.2.5.2 Analyst View

4 RESEARCH METHODOLOGY

4.1 Primary Data Sources

4.2 BIS Data Sources

4.3 Assumptions and Limitations

List Of Figures

LIST OF FIGURES

Figure 1: Asia-Pacific Low-Carbon Aluminum Market, \$Billion, 2021, 2022, and 2031

Figure 2: Asia-Pacific Low-Carbon Aluminum Market (by End User), \$Billion, 2021 and 2031

Figure 3: Asia-Pacific Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021 and 2031

Figure 4: Asia-Pacific Low-Carbon Aluminum Market (by Product), \$Billion, 2021 and 2031

Figure 5: Low-Carbon Aluminum Market (by Region), \$Billion, 2021 and 2031

Figure 6: Share of Renewable vs. Conventional Energy Sources with Private Participation in Emerging Markets and Developing Economies (EMDEs), by Projects

Figure 7: Share of Renewable vs. Conventional Energy Sources with Private Participation in Emerging Markets and Developing Economies (EMDEs), by Investment

Figure 8: Supply Chain Analysis of the Low-Carbon Aluminum Market

Figure 9: Aircraft Deliveries (by Region, Number of Aircraft), 2018-2022

Figure 10: Automotive Production Units, 2019-2021

Figure 11: Embodied Carbon (Carbon Footprint) per Kg of Primary Aluminium Ingot

Figure 12: Research Methodology

Figure 13: Top-Down and Bottom-Up Approach

Figure 14: Low-Carbon Aluminum Market: Influencing Factors

Figure 15: Assumptions and Limitations

List Of Tables

LIST OF TABLES

Table 1: Consortiums and Associations

Table 2: Regulatory/Certification Bodies

Table 3: Key Product Developments

Table 4: Key Market Developments (2018-2021)

Table 5: Key Partnerships and Joint Ventures

Table 6: Low-Carbon Aluminum Market (by Region), Kilotons, 2021-2031

Table 7: Low-Carbon Aluminum Market (by Region), \$Billion, 2021-2031

Table 8: China Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031

Table 9: China Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031

Table 10: China Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031

Table 11: China Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031

Table 12: China Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031

Table 13: China Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031

Table 14: Asia-Pacific and Japan Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031

Table 15: Asia-Pacific and Japan Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031

Table 16: Asia-Pacific and Japan Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031

Table 17: Asia-Pacific and Japan Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031

Table 18: Asia-Pacific and Japan Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031

Table 19: Asia-Pacific and Japan Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031

Table 20: Japan Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031

Table 21: Japan Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031

Table 22: Japan Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031

Table 23: Japan Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031

Table 24: Japan Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031

Table 25: Japan Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031

- Table 26: South Korea Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031
- Table 27: South Korea Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031
- Table 28: South Korea Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031
- Table 29: South Korea Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031
- Table 30: South Korea Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031
- Table 31: South Korea Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031
- Table 32: India Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031
- Table 33: India Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031
- Table 34: India Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031
- Table 35: India Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031
- Table 36: India Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031
- Table 37: India Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031
- Table 38: ASEAN Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031
- Table 39: ASEAN Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031
- Table 40: ASEAN Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031
- Table 41: ASEAN Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031
- Table 42: ASEAN Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031
- Table 43: ASEAN Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031
- Table 44: Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by End User), Kilotons, 2021-2031
- Table 45: Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by End User), \$Billion, 2021-2031
- Table 46: Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by Source of Production), Kilotons, 2021-2031
- Table 47: Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by Source of Production), \$Billion, 2021-2031
- Table 48: Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by Product), Kilotons, 2021-2031
- Table 49: Rest-of-Asia-Pacific and Japan Low-Carbon Aluminum Market (by Product), \$Billion, 2021-2031
- Table 50: Product Matrix of Key Companies, By Source of Production

Table 51: Market Shares of Key Companies, 2021

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