

Aluminium Market Poised for Growth Amid Rising Demand in Automotive and Green Energy Sectors

Technological advancements in lightweight alloys and energy-efficient production are further shaping aluminium market trends.

NEWARK, DE, UNITED STATES, June 8, 2025 /EINPresswire.com/ -- The [aluminium market](#) is

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Green aluminium initiatives and sustainability-focused policies are set to reshape the market landscape, attracting investment in eco-friendly production processes.”

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undergoing a transformation, driven by heightened demand across multiple industries. With increasing adoption in electric vehicles (EVs), aerospace, and construction, aluminium consumption is expected to witness steady growth. The market size is projected to exceed USD 331.1 billion by 2035, growing at a CAGR of 6.1% from 2025 onwards.

Sustainability remains a key driver, with green aluminium initiatives gaining traction. Several manufacturers are prioritising energy-efficient production and aluminium recycling to meet strict carbon emissions targets. Governments and industry players alike are focusing on

innovations that align with environmental standards while ensuring cost-effectiveness.

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- Rising Demand in Automotive & EV Sectors: The shift toward lightweight materials in vehicles is increasing the use of aluminium. With global automakers focusing on electric and fuel-efficient models, aluminium is a preferred choice due to its high strength-to-weight ratio. The demand for aluminium in EVs is set to rise by 6.1% CAGR over the next decade.

- Sustainability and Green Aluminium Initiatives: Environmental regulations are pushing for reduced carbon footprints in aluminium production. Companies are investing in low-emission

smelting technologies to produce aluminium with minimal environmental impact. Recycled aluminium is expected to account for 40% of total market supply by 2030.

- Construction Boom & Smart Infrastructure: Aluminium is widely used in modern construction projects, including high-rise buildings, bridges, and smart cities. The material's durability, resistance to corrosion, and recyclability make it ideal for urban development. The construction sector is projected to contribute over 30% of the total aluminium consumption by 2035.

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- Advanced Manufacturing Technologies: Innovations in [3D printing](#), AI-driven aluminium processing, and automated smelting will optimize efficiency, reduce waste, and enhance product quality.
- Expansion of Aluminium Recycling: The global emphasis on a circular economy will boost aluminium recycling efforts, leading to increased investments in secondary aluminium processing.
- Geopolitical & Trade Impact on Aluminium Supply: Countries such as China, the United States, and the European Union are revising trade policies, impacting the global aluminium supply chain.
- New Applications in [Battery Technology](#): With aluminium-air batteries gaining interest, the material could play a vital role in energy storage solutions and high-performance battery technology.

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- Global aluminium production is expected to grow steadily, driven by demand in automotive, construction, and aerospace.
- Recycled aluminium will gain prominence, contributing to sustainability goals.
- Trade regulations and raw material costs will continue to influence price volatility.

- Emerging economies will play a key role in market expansion.
- Technological advancements in aluminium processing will enhance efficiency and sustainability.

Global Aluminium Market Segments:

United States

- The USA aluminium market is driven by demand in building, automotive, aerospace, and alternative energy industries.
- The shift towards lightweight vehicles is increasing aluminium usage.
- Projected market valuation of USD 2,067.4 million by 2032.

United Kingdom

- Growth driven by advancements in the automotive and aerospace sectors.
- Green technology initiatives boosting sustainable aluminium production.

European Union

- Stringent environmental regulations are promoting recycling and energy-efficient production methods.
- Increasing investments in lightweight and high-strength aluminium alloys for industrial applications.

Japan

- The Japanese aluminium market is focused on high-performance alloys for precision manufacturing.
- Strong presence in the consumer electronics and automotive industries.

South Korea

- Increasing demand from the shipbuilding, automotive, and semiconductor industries.
- Government support for eco-friendly aluminium production.

Global Aluminium Market Overview and Key Trends

The aluminium industry is a dominant segment of the global metals business that is pushed by demand in automotive, aerospace, construction & packaging industries.

Key players in the market include:

- Rio Tinto: Investing in low-carbon aluminium production
- Alcoa Corporation: Focusing on recycled aluminium and sustainable smelting
- Norsk Hydro: Expanding hydro-powered aluminium plants
- China Hongqiao Group: Leading global aluminium supply chain
- Emirates Global Aluminium: Pioneering energy-efficient production technologies

General & Advanced Materials Market Insights: Overview, Key Players, and Future Outlook:
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General & Advanced Materials Market Insights

By Series:

- Series 1 Aluminum
- Series 2 Aluminum
- Series 3 Aluminum
- Series 4 Aluminum
- Series 5 Aluminum
- Series 6 Aluminum
- Series 7 Aluminum
- Series 8 Aluminum

By Processing:

- Castings
- Flat Rolled Aluminum
- Rods & Bars
- Extrusions
- Pigments & Powder
- Forgings

By Region:

- North America
- Latin America
- Western Europe
- Eastern Europe
- East Asia
- South Asia Pacific
- Middle East and Africa

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