

Cobalt Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Cobalt Market Summary

Introduction to the Cobalt Industry

Cobalt is a strategic metal essential for lithium-ion batteries, superalloys, tool materials, and catalysts, prized for its magnetic properties, heat resistance, and durability. The industry is dominated by the Democratic Republic of Congo (DRC), which accounted for 75.86% of the record 290,000-ton global production in 2024, holding 54.55% of the world's 11 million-ton reserves. Cobalt's critical role in EV batteries, particularly in NCM cathodes, aligns with global EV sales nearing 14 million in 2023. However, a 50,000-ton oversupply and DRC's four-month export ban starting February 2025 have depressed prices, reflecting supply-demand imbalances. China leads consumption, driven by its battery industry, while aerospace and industrial applications sustain demand. The industry faces challenges from ethical sourcing concerns and cobalt-free battery trends, necessitating innovation and recycling.

Market Size and Growth Forecast

The global cobalt market is projected to reach USD 12.0 billion to USD 15.0 billion by 2025, with an estimated CAGR of 3% to 5% through 2030, tempered by oversupply and recycling advancements but supported by EV and aerospace demand.

Regional Analysis

Africa expects a growth rate of 2% to 4%. The DRC's dominance ensures supply, but

the 2025 export ban disrupts global markets, impacting firms like Glencore. Zambia's smaller output supports regional stability.

Asia Pacific anticipates a growth rate of 4% to 6%. China's battery manufacturing and EV production drive demand, with Japan and South Korea focusing on high-performance NCM cathodes.

North America projects a growth rate of 3% to 5%. The U.S. invests in domestic refining to reduce DRC reliance, while Canada's mining sector bolsters supply chains.

Europe expects a growth rate of 3% to 5%. Germany and France prioritize ethical sourcing for EV batteries, with recycling initiatives gaining momentum.

South America anticipates a growth rate of 1% to 3%. Chile's minor cobalt output limits growth, with demand tied to industrial alloys.

Application Analysis

Batteries: Projected at 4% to 6%, dominates due to EV and electronics demand. Trends toward cobalt-light or cobalt-free cathodes balance cost and performance, sustaining growth.

Alloys: Expected at 2% to 4%, used in aerospace turbines for heat resistance. Lightweight alloy innovations drive steady demand in high-value applications.

Tool Materials: Anticipated at 2% to 4%, valued in cutting tools for durability. Automation in manufacturing supports moderate growth.

Catalysts: Projected at 1% to 3%, used in petrochemical refining. Green chemistry trends limit expansion, with steady industrial demand.

Key Market Players

Glencore: A Swiss-based leader, Glencore dominates DRC cobalt mining for battery applications.

CMOC: A Chinese firm, CMOC expands DRC operations to supply EV markets.

Eurasian Resources: A Luxembourg-based player, it leverages DRC assets for global

supply.

Shalina Resources: A DRC-focused company, Shalina supports battery supply chains.

MMC Norilsk Nickel: A Russian firm, Norilsk integrates cobalt with nickel production.

Sumitomo Metal: A Japanese company, Sumitomo targets high-performance alloys.

Vale: A Brazilian player, Vale diversifies into battery materials.

Huayou Cobalt: A Chinese firm, Huayou emphasizes sustainable refining.

Jinchuan Group: A Chinese company, Jinchuan supports domestic battery markets.

Sherritt International: A Canadian player, Sherritt focuses on refining technologies.

Porter's Five Forces Analysis

Threat of New Entrants: Low. The cobalt market is capital-intensive, with DRC's resource dominance and complex refining processes creating high barriers. Artisanal mining in the DRC offers low-quality supply but lacks scalability, protecting firms like Glencore. New entrants face challenges securing ethical supply chains and competing with established players' economies of scale.

Threat of Substitutes: Moderate to High. Cobalt-free batteries, such as lithium iron phosphate (LFP), gain traction in cost-sensitive EVs, reducing battery demand. Superalloys and catalysts face fewer substitutes, supporting Sumitomo Metal's stability, but firms like Huayou Cobalt must innovate to maintain relevance in battery applications.

Bargaining Power of Buyers: High. Battery manufacturers like CATL and automakers negotiate aggressively, leveraging the 2024 oversupply and DRC's export ban. Long-term contracts with EV makers provide some stability for CMO, but buyers' ability to switch to LFP batteries enhances their leverage.

Bargaining Power of Suppliers: High. DRC's control over 75% of global cobalt supply, coupled with its 2025 export ban, grants significant pricing power to local miners and regulators. Limited recycling infrastructure exacerbates dependency, impacting costs for Vale. Firms like Sherritt International seek alternative

sources to mitigate risks.

Competitive Rivalry: Moderate to High. Global leaders like Glencore and Chinese firms like Jinchuan Group compete on price, ethical sourcing, and refining efficiency. Oversupply pressures and the push for cobalt-light batteries intensify rivalry, with firms like Huayou Cobalt investing in recycling and sustainable practices to differentiate.

Market Opportunities and Challenges

Opportunities

EV Battery Demand: Projected EV sales of 17 million in 2024 sustain cobalt use in NCM cathodes, benefiting Huayou Cobalt's scalable operations.

Battery Recycling: Recycling advancements, targeting 10% of supply by 2030, create opportunities for Sherritt International to tap circular economy trends.

Ethical Sourcing: Europe's demand for conflict-free cobalt favors Vale's transparent supply chains, enhancing market access.

Aerospace Growth: Expanding jet engine production drives alloy demand, supporting Sumitomo Metal's high-margin segments.

Emerging Markets: India's EV and electronics growth offers export potential for Jinchuan Group, leveraging cost efficiencies.

Policy Incentives: U.S. critical minerals policies bolster domestic refining, aiding Glencore's North American strategy.

Cobalt-Efficient Batteries: Innovations in low-cobalt cathodes maintain demand, supporting CMOC's R&D investments.

Challenges

Oversupply Pressures: A 50,000-ton surplus and DRC's 2025 export ban depress prices, straining Shalina Resources' profitability.

Geopolitical Instability: DRC's regulatory shifts and artisanal mining issues disrupt supplies, impacting Eurasian Resources' planning.

Environmental Concerns: Water-intensive mining raises ecological issues, forcing Glencore to adopt costly sustainable practices.

Substitute Threats: LFP batteries reduce cobalt reliance in EVs, challenging Huayou Cobalt's battery segment growth.

Price Volatility: Persistent low prices since 2024 squeeze margins for Vale, risking project cancellations.

Supply Chain Risks: DRC's infrastructure bottlenecks and export restrictions hinder CMOC's logistics efficiency.

Ethical Compliance: Rising consumer demand for conflict-free cobalt increases costs for Sherritt International, complicating sourcing.

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