

Green Mining: Global Market

Market Research Report | 2024-07-18 | 124 pages | BCC Research

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Report description:

Description

Report Scope:

The scope of green mining encompasses various aspects of mining operations that prioritize environmental sustainability and minimize the impact on ecosystems. The global green mining market covers segments by mining type (e.g., surface, underground), technology (e.g., power reduction, fuel and maintenance reduction, emission reduction, water reduction) and regional (i.e., North America, Europe, Asia-Pacific, South America, Middle East and Africa). The base year for the market study is 2023, and the estimates and forecasts are for 2024 through 2029. Market estimates are in U.S. dollars (millions). This report concentrates on green mining technologies currently in mining use; other promising technologies that are not likely to make it out of the laboratory are not covered in the report. The market size includes the revenue mining companies generate by incorporating green mining technologies.

Report Includes:

- 38 data tables and 51 additional tables
- An overview of the global markets for green mining
- Estimation of market size and analyses of global market trends, with data from 2023, estimates for 2024, and projections of compound annual growth rates (CAGRs) through 2029
- Highlights of the market potential and characterization of green mining market by region, type, and technology
- Insights into social and environmental concerns related to carbon footprint and discussion on how that can minimize by implementing recycling initiatives
- Coverage of government laws and regulations related to mining companies and an overview of environmental standards and practices

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- Identification of new innovations in the raw materials sector, generation of sustainable mining technologies, resource efficiency, and the development of alternative raw materials
- Examination of the key drivers and constraints that will shape the market and discussion on the upcoming market opportunities and areas of focus to forecast the market into various segments and sub-segments
- Coverage of recent advances, emerging technologies, and developments of the industry
- Evaluation of key industry acquisitions and strategic alliances and market share analysis of the leading suppliers of the industry
- Company profiles of major players within the industry, including Rio Tinto, BHP, Vale S.A., and Anglo American

Executive Summary

Summary:

The term "green mining" refers to the incorporation of environmentally friendly technologies, strategies and practices in the mining industry. It seeks to support the ethical extraction of minerals and resources, as well as to encourage sustainability. It also urges mining operations to incorporate renewable energy sources, including solar, wind, hydroelectric or geothermal energy, to reduce greenhouse gas (GHG) emissions. Traditional mining processes often negatively impact the environment; green mining thus seeks to mitigate these impacts by implementing various measures throughout the mining lifecycle.

As global demand for minerals increases, the mining sector strives to mitigate the impact on ecosystems by optimizing mineral resource development. This involves such measures as reforestation, habitat restoration and the creation of wildlife corridors to preserve biodiversity. Another significant pillar in green mining is the promotion of effective waste management practices by incorporating advanced extraction and processing techniques, recycling and reclamation, as well as ensuring proper disposal of hazardous materials.

Green mining emphasizes engaging with local communities, stakeholders and regulators. This involves encouraging transparency and accountability, regular environmental impact assessments and community involvement in decision making. By actively engaging with stakeholders, green mining seeks to address social and ecological concerns and build sustainable relationships.

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ANGLO AMERICAN

BHP

DUNDEE PRECIOUS METALS INC.

FREEPORT-MCMORAN

GLENCORE

JIANGXI COPPER CORP.

MA'ADEN

NEWMONT CORP.

RIO TINTO

SUMITOMO METAL MINING CO. LTD.

TATA STEEL LIMITED

VALE S.A.

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