



Q/ZJ

紫金矿业集团股份有限公司企业标准

Zijin Mining Group Co., Ltd. Corporate Standard

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生态环境保护政策

Ecological and Environmental Protection Policy

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Ecological and Environmental Protection Policy

1. INTRODUCTION

Zijin Mining Group Co., Ltd. (hereinafter referred to as "Zijin Mining", "we" or "the Company") upholds the ecological and environmental protection philosophy of "Green is Gold". Adhering to the principle of prioritizing ecological and environmental protection in mineral resource development, we are committed to building green mines and green factories, and realizing the harmonious development of mineral resource development and ecological environmental protection. This policy aims to minimize the negative impacts of mining activities on the ecological environment through the implementation of full-life-cycle environmental protection management, establish a green, low-carbon and sustainable mining development model, and contribute to addressing global climate change and biodiversity conservation.

2. SCOPE

This Policy applies to all business operations and activities of the Company, its directly affiliated units, and wholly-owned or controlled subsidiaries, covering business entities, management, employees, suppliers, contractors, and other relevant parties throughout the entire project lifecycle, including exploration, development, operation, mine closure, and post-closure management. The Policy is applicable simultaneously to the Company's global business activities such as investments, mergers and acquisitions, and due diligence processes, and shall serve as a key criterion for supplier selection. Zijin Mining will promote compliance with this Policy among value chain partners (including suppliers, contractors, etc.). Any violation of this Policy may jeopardize the violator's business relationship with Zijin Mining and could even result in the termination of such cooperation.

3. REFERENCES

- a) United Nations Sustainable Development Goals (SDGs)
- b) Ten Principles of the United Nations Global Compact
- c) United Nations Framework Convention on Climate Change (UNFCCC) and the Paris Agreement
- d) International Finance Corporation (IFC) Performance Standards on Environmental and Social Sustainability
- e) Convention on Biological Diversity (CBD)
- f) Ramsar Convention on Wetlands (Ramsar Convention)
- g) Kunming-Montreal Global Biodiversity Framework (GBF)
- h) World Gold Council (WGC) Responsible Gold Mining Principles (RGMPs)
- i) International Council on Mining and Metals (ICMM) Mining Principles and Global Industry Standard on Tailings Management
- j) International Cyanide Management Institute (ICMI) International Cyanide Management Code

4. MANAGEMENT APPROACH

Zijin Mining will fulfill this Policy through the following approaches:

- a) Strictly comply with the ecological and environmental protection laws and regulations of the countries where projects are located, and proactively benchmark against international

advanced standards and practices to identify the risks and opportunities brought by globalized mining development and technological progress. Adhere to the principle of "adopting the higher standard" between the local (national/regional) and international standards to establish an Environmental Management System (EMS) covering the entire business chain, ensuring a dynamic balance between development and protection.

- b) Establish a full-life-cycle Environmental Impact Assessment (EIA) mechanism. Identify ecological risks through scientific methods, implement hierarchical risk management and control, prioritize avoidance and prevention measures, and minimize the adverse impacts of mining activities on employees, communities, and ecosystems.
- c) Implement ecological restoration plans during the exploration, development, and mine closure phases. Adopt the strategy of "restoring while developing", promote the recycling and reuse of land functions after mine closure, and enhance the value of environmental resources.
- d) Actively promote and apply clean technologies, improve energy use efficiency and the proportion of renewable energy consumption, develop a circular economy, reduce resource consumption and pollutant emissions, and advance low-carbon transition.
- e) Establish a regular communication and collaboration mechanism with stakeholders such as governments, communities, and non-governmental organizations (NGOs). While regularly disclosing environmental performance and sharing green practice experience, respect community traditions and development demands, promote integration with local society and culture, and continuously enhance public trust and social cohesion.
- f) Extend environmental responsibilities to all suppliers, contractors, and partners. Require them to comply with the same environmental standards as the Company, and strive to work with them to build a transparent, responsible, and sustainable green supply chain.
- g) Continuously improve and upgrade the environmental management system, strengthen scientific research and cooperation in environmental protection, low-carbon, and clean energy technologies, and commit to building a green, high-tech, leading global mining company.

4.1 Management System

The Company fully recognizes the importance of the Environmental Management System (EMS) for sustainable development. To ensure the achievement of sustainable development goals, the Strategic and Sustainable (ESG) Committee of Zijin Mining's Board of Directors is responsible for formulating environmental strategies and development objectives, and assumes supervisory and steering responsibilities on its behalf. The Company's ESG Management Committee clarifies its environmental commitments, and a special Leading Group for Dual Carbon Management is established under it to conduct targeted management of climate change issues. The Environmental Protection and Ecology Department at the headquarters, led by the Environmental Protection Director, is dedicated to managing, guiding, and tracking various ecological and environmental issues. Additionally, all subsidiaries and branch companies have established environmental protection functional departments, integrating environmental performance into assessments to ensure that environmental management concepts are embedded in daily operations and corporate culture.

The Company strictly adheres to the ISO 14001 international standard, establishing a full-life-cycle environmental management system, and deeply integrates and incorporates the *Taskforce on Climate-related Financial Disclosures (TCFD) framework*. Environmental and Social Impact Assessment (ESIA) is fully integrated into the project planning phase and the Company's risk management framework, forming a systematic ecological and environmental risk prevention and control system. We require all mining, smelting projects, and supply chains to obtain ISO 14001 EMS certification, which is audited by third parties. Through the Plan-Do-Check-Act (PDCA) cycle, we continuously optimize environmental management efficiency: avoiding ecologically sensitive areas from the project design phase, strictly controlling pollutant emissions during production, implementing high-standard ecological restoration throughout the entire process, conducting environmental baseline and impact assessments for newly acquired projects, and performing regular environmental

reviews for existing projects to identify, assess, and take effective measures to mitigate potential environmental risks. We have established a full-process environmental emergency management system covering prevention, preparation, response, and recovery, clarifying responsibilities and plans for each link. Emergency review and improvement are incorporated into the Company's regular management to achieve closed-loop management and continuous enhancement of environmental risk prevention and control capabilities.

4.2 Climate Change

Zijin Mining firmly supports the temperature control goals of the *United Nations Framework Convention on Climate Change (UNFCCC)* and the *Paris Agreement*. The Company has released the *Climate Change Action Plan* and is committed to achieving full carbon neutrality (Scope 1 and Scope 2) by 2050, contributing to limiting the global temperature increase to within 2°C above pre-industrial levels by the end of this century. Guided by the mission of "providing the materials that improve standards of living in a low-carbon future", Zijin Mining systematically advances its climate change response strategy: At the operational level, we strive to reduce Scope 1 and Scope 2 greenhouse gas emissions through clean energy substitution, energy efficiency improvement, oil-to-electricity conversion, and application of carbon capture technologies. At the value chain level, we integrate low-carbon requirements into upstream and downstream cooperation, prioritize partnerships with suppliers adopting clean technologies, and promote low-carbon transformation in logistics and procurement. Meanwhile, we actively balance residual emissions through ecological carbon sinks, carbon trading, and other initiatives. We also strengthen global climate governance cooperation by participating in international industry initiatives and co-building technical standards, contributing the mining industry's efforts to achieving the goals of the *Paris Agreement* and global just transition.

4.3 Water Resource Management

Zijin Mining has elevated water resource management to a core strategic priority, aligning closely with the United Nations Sustainable Development Goals. We are committed to establishing a full-life-cycle management system covering "water abstraction, utilization, discharge, recycling and reuse" through internationally advanced practices, striving to build mines with zero wastewater discharge. We continuously strengthen water resource risk management, proactively construct real-time online monitoring systems for water quality at wastewater discharge points and downstream river sections, and establish a dynamic water environment control system to actively safeguard the health of aquatic ecosystems around mining areas. All operational sites must identify and regularly assess "Best Available Techniques and Environmental Practices (BATEA)", fully promote the application of water-saving technologies, explore the utilization of non-conventional water sources (such as mine water), improve water recycling rates, and effectively reduce dependence on external water resources. We integrate community water security into core operations. By assessing project impacts on community water sources and constructing water conservancy facilities, we ensure local communities have equal access to water rights and achieve the sustainable sharing of water resources.

4.4 Land Use and Ecological Restoration

Building green mines is a core commitment of Zijin Mining for all its global operational projects. We adhere to intensive land use, minimize land disturbance as much as possible, and effectively manage land resources to address issues such as mine geological hazards and soil erosion. We proactively initiate ecological restoration work at the early stage of development, uphold the principle of "restoring while developing", formulate mine closure policies, and integrate land reclamation, ecological restoration, and mine closure planning into the entire life cycle of industrial assets. During the construction and production operation phases, we aim to "protect forests without deforestation" to safeguard forest ecosystems, avoid and reduce damage to primary forests, high-value protected areas, and high-carbon storage forests as much as possible. For unavoidable forest loss, we conduct ecological compensation through afforestation or degraded forest reconstruction in suitable areas.

Zijin Mining has established a funding guarantee mechanism for mine closure and ecological restoration to ensure sufficient funds cover all relevant costs of land reclamation, mine closure implementation, and post-closure operation and maintenance, in compliance with applicable laws and regulations. Meanwhile, the Company implements a comprehensive monitoring program to systematically assess the effectiveness of mine closure and reclamation work, ensuring alignment

with the vision and goals jointly formulated with affected stakeholders.

4.5 Biodiversity Conservation

Zijin Mining strictly complies with international conventions such as the *Convention on Biological Diversity (CBD)* and the *Ramsar Convention on Wetlands*, as well as the laws, regulations and standards of the countries where it operates. We deeply integrate biodiversity conservation into the full-life-cycle management of mines. We avoid mining development in areas of extremely high conservation value such as legally designated nature reserves and world heritage sites. We will strictly follow the hierarchical mitigation strategy of "avoidance, mitigation, restoration, and compensation", and formulate and implement a biodiversity management plan covering the entire mining area. By adopting internationally recognized governance frameworks (such as the Taskforce on Nature-related Financial Disclosures, TNFD), we continuously conduct biodiversity baseline surveys and dynamic monitoring and assessment. We publicly disclose biodiversity conservation performance, management actions, and progress toward goals, and prioritize inclusive communication with local communities and stakeholders to ensure their concerns are fully reflected in decision-making.

4.6 Pollutant Management

Zijin Mining integrates pollutant management into its environmental target management system. In accordance with the disposal principles of "reduction, recycling, and harmlessness", we strengthen the environmental risk control of pollutants through four key aspects: source reduction, classified utilization, scientific disposal, and continuous monitoring.

The Company conducts strict and responsible tracking, management, and disposal of materials throughout their entire life cycle. We prioritize the use of non-toxic, harmless, or low-toxic raw materials to reduce the generation of hazardous waste at the source. We continuously update the list of hazardous substances, enhance the management of Material Safety Data Sheets (MSDS), and ensure easy access for employees. We are committed to implementing classified control and resource utilization of solid waste, and conducting safe and responsible management of the reuse, recycling, and disposal of solid waste. In line with international standards such as the International Cyanide Management Code (ICMC) and the laws and regulations of the countries where we operate, we implement strict control over cyanide to ensure its use, storage, and disposal comply with standardized protection requirements. We strengthen the treatment of gaseous pollutants and noise control to effectively protect the health and safety of employees and surrounding communities.

4.7 Tailings Management

Tailings management is a core priority for Zijin Mining. Benchmarking against the *Global Industry Standard on Tailings Management*, we adopt internationally recognized Best Available Techniques and Practices (BAT/BAP), fulfill our primary responsibilities, and are committed to implementing optimal management strategies and sound practices throughout the full life cycle of tailings facilities.

We minimize the environmental impacts and risks of tailings dams through responsible site selection, design, construction, operation, monitoring, and closure processes. We have established and improved a tailings dam emergency management system, including a coordination mechanism with local communities and governments, as well as regular simulation drills to test the effectiveness of the emergency response system. After closure, we conduct ecological restoration, and establish a long-term monitoring mechanism to ensure the stable ecological functions of the closed area.

5. SUPPLEMENTARY PROVISIONS

5.1 Approval Authority: This policy is approved by the Zijin Mining Board of Directors' Executive and Investment Committee and takes effect from the date of issuance.

5.2 Language: This policy is prepared in both Chinese and English. In case of any discrepancy between the two versions, the Chinese version shall prevail.

5.3 Interpretation: This policy is interpreted by the Zijin Mining ESG Office.