中铝国际工程股份有限公司
China Aluminum International Engineering Corporation Limited

2025 Annual Environmental, Social and Governance Report

S&T + Internationalization



Building a world-class new engineering and technology enterprise with strong market competitiveness, which provides advanced technologies, complete sets of equipment and integrated service solutions for non-ferrous metals and advantageous industrial sectors.

STRIVE FOR INNOVATION AND STRENGTH



中铝国际工程股份有限公司

China Aluminum International Engineering Corporation Limited

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Report Introduction

Time Frame

This report covers the period from January 1, 2025 to December 31, 2025. Some contents may appropriately trace historical data.

Reporting Scope

Unless otherwise specified, this report covers the headquarters, branches, and subsidiaries of China Aluminum International Engineering Corporation Limited.

Reporting Cycle

This is an annual report.

Preparation Basis

- Global Reporting Initiative *Sustainability Reporting Standards (GRI Standards)*
- *Guidelines on Sustainability Report for Chinese Enterprises (CASS-ESG 6.0)* of China Enterprise Reform and Development Society and CSR Cloud Research Institute
- *Guidelines No. 14 of the Shanghai Stock Exchange for the Self-regulation - Sustainability Report (Trial), Guidelines No. 4 of the Shanghai Stock Exchange for the Self-regulation of Listed Companies - Preparation of Sustainability Report*
- *Environmental, Social and Governance Reporting Guide* issued by HKEX
- United Nations 2030 Sustainable Development Goals (SDGs)

Data Sources

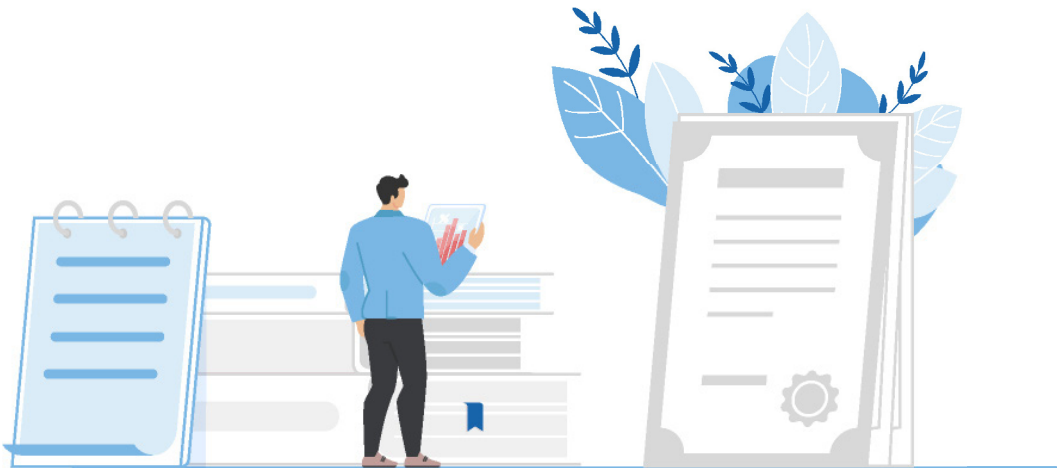
Unless otherwise specified, the information and data cited in this report come from the Company's official documents, statistical reports, and financial reports, as well as the environmental, social and corporate governance information that has been collected, aggregated, and audited by the Company.

Terms and Description

For the convenience of indication and reading,"CHALIECO", "the Company" and "We" refer to the headquarters, branches, and subsidiaries of China Aluminum International Engineering Corporation Limited. Unless otherwise specified, "yuan" in terms of currency in this report represents "RMB yuan".

Report Access

The versions in simplified Chinese, traditional Chinese and English are available to view and download at the official websites of CHALIECO, HKEX and SSE.



Message from the Chairman

The year 2025 marks the concluding year of the 14th Five-Year Plan and also a pivotal year for CHALIECO to transform and upgrade as well as deepen its reform. CHALIECO has thoroughly implemented the spirit of the 20th National Congress of the Communist Party of China and its plenary sessions. Under the strong leadership of the Chinalco's Party Leadership Group, the Company has fully executed all tasks for the conclusion of the 14th Five-Year Plan, achieving breakthroughs in scientific and technological innovation, market expansion and green transformation. Its international market layout has been continuously optimized, with the "Technology + International" brand influence significantly enhanced, marking a new milestone in high-quality development.

Guided by original aspirations, strengthening the development foundation through scientific governance.

The Company has continuously improved the modern enterprise system with Chinese characteristics, enhancing governance efficiency, and was awarded the 2025 Golden Bull Award for Corporate Governance; we adhere to the bottom line of lawful and compliant operations, and have integrated comprehensive risk management into all operational processes, providing solid safeguards for steady and sustained corporate development.

Quality as the cornerstone, unleashing industrial vitality through technological innovation.

The Company consistently upholds its commitment to quality, rigorously implementing quality responsibilities at every level and strictly controlling quality management across all processes; by embracing a customer-first philosophy, we continuously optimize service systems to deliver comprehensive and high-quality service experiences; by increasing R&D investment and tackling key core technologies, we empower industrial transformation and upgrading through technology. In 2025, the Company invested RMB 95,938.40 million in R&D, R&D investment accounted for 4.16% of operating revenue, and obtained more than 300 new valid authorized patents.

Implementing the "dual carbon" goals, strengthening development resilience with practicing.

The Company actively responds to the national "dual carbon" goals, fully implementing green and low-carbon development initiatives; we have enhanced the green management system, established sound green development standards, and strengthened the foundation of green management; we have deeply integrated green concepts into all production and operational processes, promoting energy conservation, carbon reduction and resource recycling; we advocate for a green culture and foster a low-carbon consensus among all employees. In 2025, the Company invested a total of RMB 30.3546 million in environmental protection, with zero sudden environmental incidents.



Industrial collaboration, empowering the industry ecosystem through sincere cooperation.

The Company deepens strategic partnerships, unites with upstream and downstream partners in the industrial chain to consolidate development synergy and achieve mutual benefits; we actively promote industry exchanges to facilitate resource sharing and ecological co-construction; we continuously strengthen full-process supply chain management to ensure resilience and security. In 2025, the Company reviewed 813 suppliers and conducted 297 training sessions on social responsibility/ESG for suppliers.

Human-oriented benevolence, creating social value through responsibility and commitment.

The Company adheres to a people-oriented approach, safeguarding employees' legitimate rights and interests while continuously enhancing their sense of belonging and well-being; we prioritize work safety, and continually improve management systems to fortify safety defenses; we actively fulfill social responsibilities, support public welfare, and empower rural development. In 2025, we allocated RMB 4.2225 million to support rural revitalization, benefiting a total of 25,000 people.

The long wind of ten thousand miles propels the sails, and the weighty mission heralds a new journey.

2026 marks the inaugural year of the 15th Five-Year Plan and a pivotal year for the Company to accelerate its development into a world-class enterprise. Standing at a new historical starting point, we will deeply integrate into national development strategies, balance development and security, focus on the forefront of the non-ferrous metals industry, cultivate new growth drivers, and jointly compose a new chapter in building a world-class new engineering and technology enterprise with strong market competitiveness, which provides advanced technologies, complete sets of equipment and integrated service solutions for non-ferrous metals and advantageous industrial sectors!

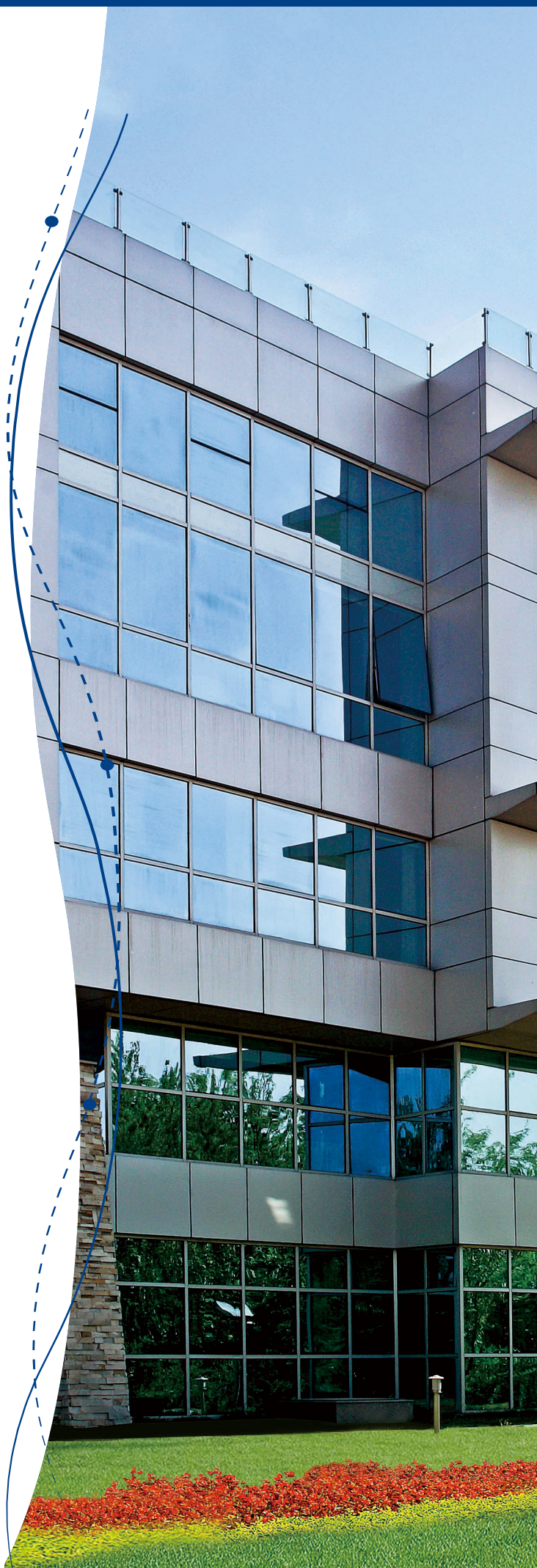
ESG Governance Statement from the Board of Directors

The Company and its Board of Directors strictly adhere to the requirements of the *Guidelines for Corporate Governance of Listed Companies* issued by the China Securities Regulatory Commission and the *Guidelines No. 14 on the Application of Self-Regulation Rules for Listed Companies – Sustainability Report (Trial)* issued by Shanghai Stock Exchange, continuously improving the Company's ESG governance system, strengthening the oversight and involvement of the Board of Directors in the Company's ESG matters, and effectively preventing and controlling ESG-related risks.

The Board of Directors serves as the highest authority and decision-making body for ESG matters, bearing full responsibility for the Company's ESG strategies and reports. The Strategy Committee of Board of Directors oversees the Company's ESG initiatives, reviews the completion of ESG objectives, and provides recommendations to the Board of Directors. Under the leadership and supervision of the Board of Directors of CHALIECO, all functional departments and member enterprises perform their own duties and cooperate with each other, and hold meetings in a regular manner to ensure that applicable ESG requirements and policies are followed.

In 2025, the Company's Board of Directors adjusted its issue database, conducted a dual materiality analysis on key issues from both financial and impact perspectives, and clarified the key priorities for the year. In line with the *Administrative Measures of China Aluminum International Engineering Corporation Limited on Social Responsibility Work* and the *Social Responsibility Management Module and Negative List of China Aluminum International Engineering Corporation Limited*, all departments and units strictly performed their duties, and the Company's Board of Directors conducted a self-assessment on the completion of social responsibility indicators of each module in 2025.

Looking ahead, the Board of Directors of CHALIECO will continue to improve its ESG governance, actively respond to the concerns of stakeholders, formulate corresponding action plans, and deliberate the progress towards relevant goals, striving to enhance ESG management.





About Us

Company Profile

The State Scientific and Technological Progress Award

2 first prizes

over

20 second prizes

It has taken the lead in formulating or participating in the formulation of more than

140

national and industrial standards and codes

held more than

3,700

valid authorized patents at home and abroad

China Aluminum International Engineering Corporation Limited (CHALIECO) is an engineering technology strategic unit of Aluminum Corporation of China (Chinalco), originating from the Design Department of the Ministry of Industry of the Northeast People's Government in 1951 – the first state-owned design enterprise in New China.

Since 1951, CHALIECO has always resonated with the development of China's non-ferrous metals industry, creating over a hundred "firsts in China" in the field of non-ferrous metals, serving as a key pioneer and promoter of technological advancement in the non-ferrous metal industry. It has now developed into an engineering technology enterprise in the non-ferrous metals industry that integrates businesses such as non-ferrous metals industrial technology R&D, surveying and mapping, engineering design, EPC, equipment manufacturing, and operation and maintenance services, covering "all metal categories, the entire industrial chain and the full lifecycle". It possesses strong comprehensive capabilities in mining resource development and is a global leader in providing advanced technologies for aluminum, copper, lead-zinc smelting and aluminum and copper processing. Its business spans over 40 countries and regions worldwide.

CHALIECO was listed on the Hong Kong Stock Exchange (stock code: 02068.HK) on July 6, 2012, and on the main board of the Shanghai Stock Exchange (stock code: 601068.SH) on August 31, 2018, becoming the first nonferrous engineering company listed on both Hong Kong and Shanghai stock exchanges.

CHALIECO has won over 1,000 science and technology awards at the provincial/ministerial level or above cumulatively, including 2 first prizes and over 20 second prizes of the State Scientific and Technological Progress Award. It has taken the lead in formulating or participating in the formulation of more than 140 national and industrial standards and codes, and held more than 3,700 valid authorized patents at home and abroad, and received more than 500 awards (e.g. Luban Prize for Construction Project and the National Quality Project Award).

It has been listed for many consecutive years in authoritative rankings such as Engineering News-Record (ENR) "Top 150 Global Design Firms", "ENR Top 225 International Design Firms", “ENR Top 250 International Contractors" and "ENR Top 250 Global Contractors". In 2025, the Company ranked 84th in the "Top 225 International Design Firms" and 142nd in the "Top 150 Global Design Firms", with domestic rankings of 9th and 20th, respectively.

Corporate Culture

Strategic positioning

Provide "customized" premium services integrating R&D and design, as well as cost-effective complete equipment products and comprehensive solutions. Develop world-class integrated capabilities in process technology, engineering design and construction in the non-ferrous metals field, aiming to become a world-class, highly competitive new-type engineering technology enterprise that offers comprehensive solutions for advanced non-ferrous metals technologies, complete equipment and integrated services.

Development goals

Focus on the non-ferrous metals and advantageous industrial sectors, strengthen, optimize and expand EPC business with design as the core, enhance the industrialization of scientific and technological achievements, continuously optimize the business structure and profit model, internally support major projects of Chinalco, externally empower the non-ferrous metals industry and related advantageous industrial fields, and lead the technological development of the non-ferrous metals industry. Achieve more robust services for Chinalco, continuously improve operational quality and efficiency, consolidate industry position, and optimize business structure.

Business layout

Strategically reshape and systematically optimize existing businesses, and build a six-major-engineering business structure, focusing on establishing a new synergistic development pattern with resource engineering as the source, mining engineering and non-ferrous metallurgical engineering as the dual core pillars, non-ferrous metal processing engineering as the value-extension wing, green, low-carbon, digital and intelligent businesses as the future driving wheel, and other related engineering businesses as supplements.

Value Philosophy

Core values

Responsibility, integrity, openness, excellence

Corporate spirit

Strive for innovation and strength

Cultural atmosphere

Positiveness, honesty, simplicity, inclusivenes

Business philosophy

Value creation and return first

Management philosophy

Grasping four "one" in business:
One orientation, one basis, one key, one "hard constraint"

Implementing four "fine" in management:
Fine operation, fine management, fine organization, fine implementation

Emphasizing four "-ization" in project management:
Enterprization, marketization, specialization, legalization

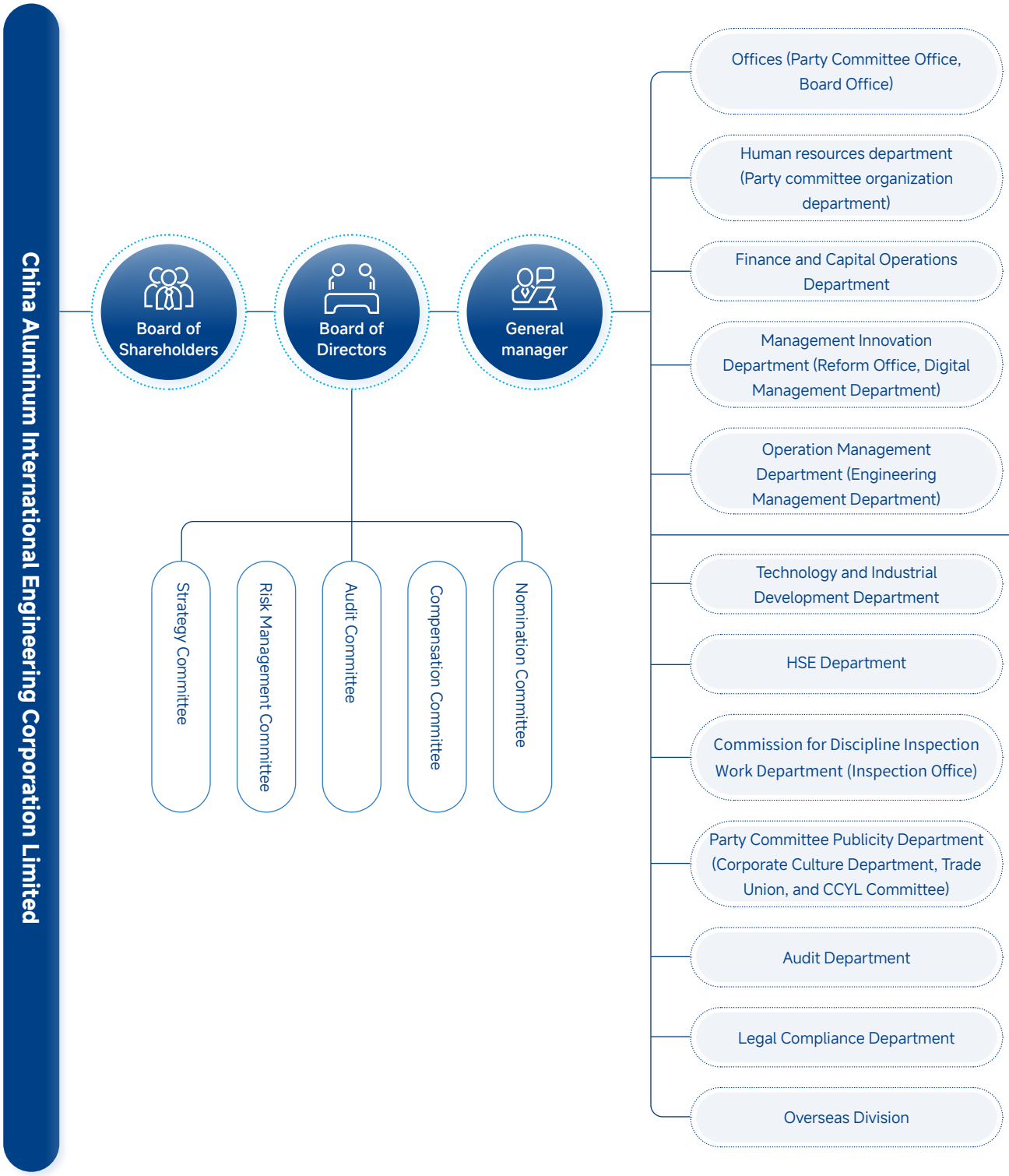
Project Concepts

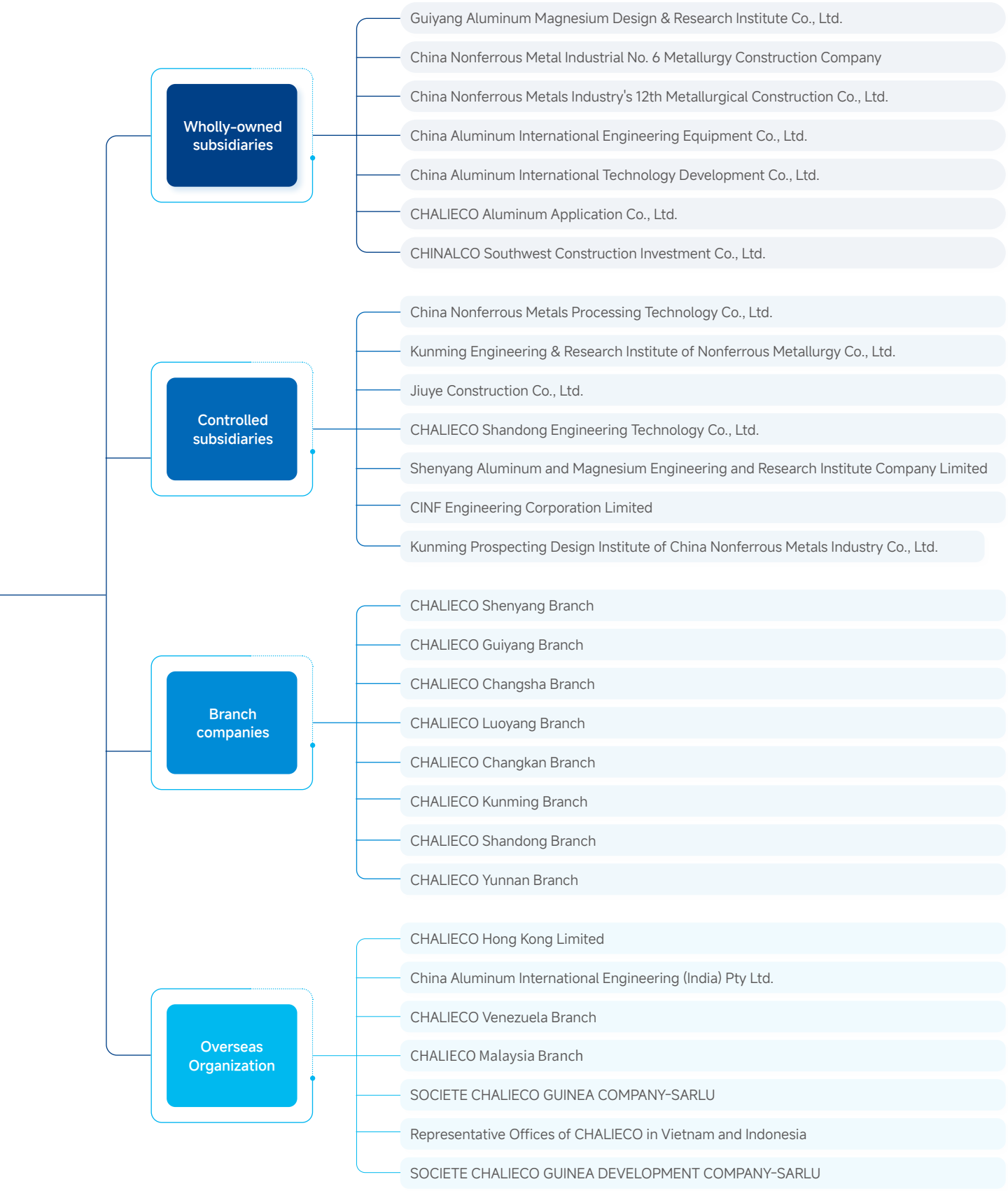
Develop a project, build a monument, make new friends, and get a wonderful memory

View of social responsibility

Science and technology lead to the construction of a dream home

Organizational Structure



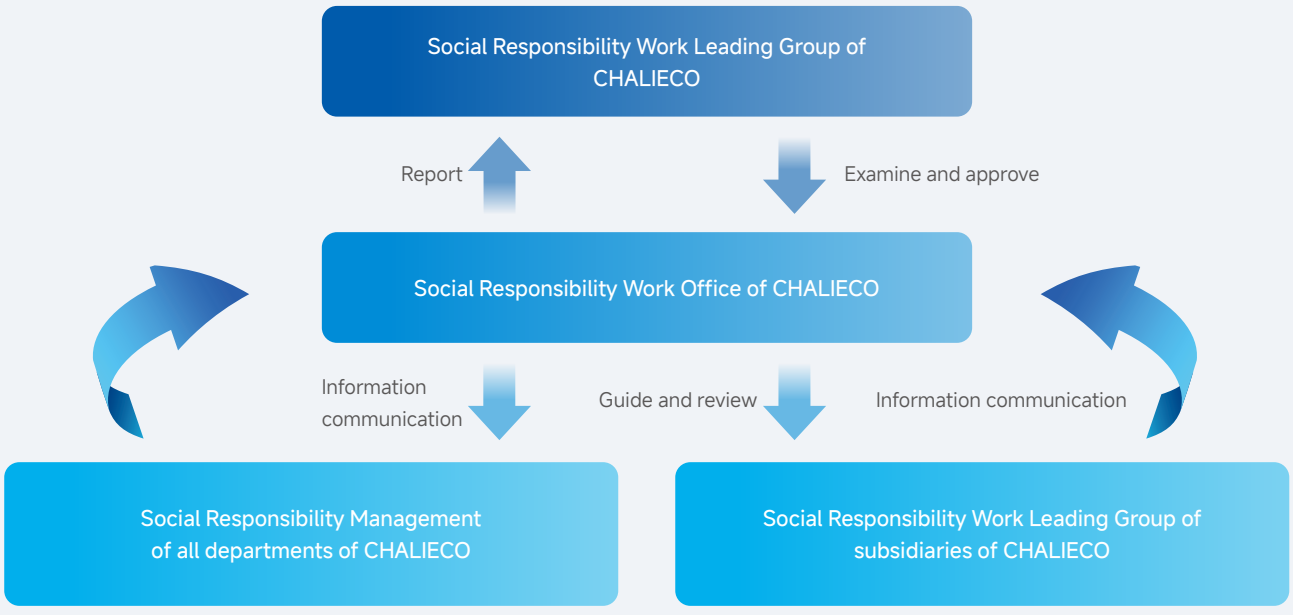

Wholly-owned subsidiaries
Guiyang Aluminum Magnesium Design & Research Institute Co., Ltd.
China Nonferrous Metal Industrial No. 6 Metallurgy Construction Company
China Nonferrous Metals Industry's 12th Metallurgical Construction Co., Ltd.
China Aluminum International Engineering Equipment Co., Ltd.
China Aluminum International Technology Development Co., Ltd.
CHALIECO Aluminum Application Co., Ltd.
CHINALCO Southwest Construction Investment Co., Ltd.
Controlled subsidiaries
China Nonferrous Metals Processing Technology Co., Ltd.
Kunming Engineering & Research Institute of Nonferrous Metallurgy Co., Ltd.
Jiuye Construction Co., Ltd.
CHALIECO Shandong Engineering Technology Co., Ltd.
Shenyang Aluminum and Magnesium Engineering and Research Institute Company Limited
CINF Engineering Corporation Limited
Kunming Prospecting Design Institute of China Nonferrous Metals Industry Co., Ltd.
Branch companies
CHALIECO Shenyang Branch
CHALIECO Guiyang Branch
CHALIECO Changsha Branch
CHALIECO Luoyang Branch
CHALIECO Changkan Branch
CHALIECO Kunming Branch
CHALIECO Shandong Branch
CHALIECO Yunnan Branch
Overseas Organization
CHALIECO Hong Kong Limited
China Aluminum International Engineering (India) Pty Ltd.
CHALIECO Venezuela Branch
CHALIECO Malaysia Branch
SOCIETE CHALIECO GUINEA COMPANY-SARLU
Representative Offices of CHALIECO in Vietnam and Indonesia
SOCIETE CHALIECO GUINEA DEVELOPMENT COMPANY-SARLU

Sustainable Development Management

Sustainability Management System

CHALIECO has effectively integrated social responsibility management into the business management system, and established a leading group for social responsibility work, with the Company's Party secretary and chairman as the leader, the General Manager as the executive deputy leader, and other members of the management and competent personnel as deputy leaders. The leading group is responsible for reporting the progress of the social responsibility work of the Company to the higher level, and conveying the guiding and management opinions and suggestions of Chinalco on social responsibility work, as well as conducting overall planning for the implementation of the Company's social responsibility work. The office of the leading group is responsible for the daily work of social responsibility.

Social Responsibility Organizational System of CHALIECO



Sustainable Development Actions

CHALIECO has fully implemented the "112" social responsibility indicator system of Chinalco. We have continued to enhance its performance across the "five modules" of corporate governance, employee rights and interests, environmental protection, fair operation, and community support. We have also deepened its management and practice of the social responsibility negative list, continuously strengthened information disclosure, and published social responsibility (ESG) reports for nine consecutive years, achieving a five-star excellence rating in the 2025 ESG assessment of central enterprise-controlled listed companies. With outstanding performance in environmental, social and governance (ESG) practices, CHALIECO was listed on the "China ESG Central Enterprise Listed Companies Pioneer 100 (2025)" ranking, awarded the "ESG Whale & Bull Award · Governance Pioneer Award", received the "2025 Golden Bull Award for Corporate Governance" from *China Securities Journal,* and was selected as a "2025 Outstanding Sustainable Development Practice Case of Listed Companies" by the China Association for Public Companies.

Identification of Materiality Issue

CHALIECO takes the identification, assessment and disclosure of materiality issues as the core work of ESG management, and conducts regular analysis every year to improve the sustainable development working system and mechanism process. In 2025, the Company adhered to the latest requirements of HKEX and SSE to conduct dual materiality assessments.CHALIECO gathered input from multiple departments and stakeholders, and thoroughly analyzed the effects of ESG issues on the Company's economic, environmental, and social aspects. This helped identify 24 ESG issues to focus on and address this year.

Dual materiality assessment approach

Step 1	Background analysis and issue identification	Identified 24 potentially important issues through standard benchmarking, policy analysis and peer benchmarking to establish an issue database.
Step 2	1.Impact materiality assessment	Conducted impact degree and stakeholder questionnaire survey; evaluated probability through assessments by internal and external ESG experts.
	2.Financial materiality assessment	Experts from the internal finance department assessed the financial materiality of each issue from two dimensions, followed by reviews and confirmations from multiple departments.
Step 3	Dual materiality assessment analysis	A materiality list for 2025 was formed based on the evaluation data in Step 2 to determine the important issues and their priorities for this year.
Step 4	Guiding ESG disclosure and practice with analysis results	After reviewing and confirming the analysis results, the Company used these findings to guide targeted ESG disclosures and enhance its practices.

Materiality dimension	Ranking	Materiality issue	Category
Issues of both financial and impact materiality	1	Work safety	Society
	2	Safety and quality of products and services	Society
	3	Supply chain security	Society
	4	Innovation driving	Society
	5	Climate change response	Environment
	6	Employees	Society
Issues of financial materiality but of no impact materiality	1	Environmental compliance management	Environment
Issues of impact material but of no financial materiality	1	Energy use	Environment
	2	Green construction	Environment
	3	Overseas responsibility fulfillment	Society
	4	Pollutant emission	Environment
	5	Anti-commercial bribery and anti-corruption	Sustainable development-related governance
	6	Social contribution	Society
	7	Rural revitalization	Society
	8	Waste disposal	Environment
	9	Due diligence investigation	Sustainable development-related governance
	10	Communication with stakeholders	Sustainable development-related governance
	11	Ecosystem and biodiversity conservation	Environment
	12	Water resource use	Environment
	13	Circular economy	Environment
Issues of neither financial materiality nor impact materiality[1]	1	Anti-unfair competition	Sustainable development-related governance
	2	Data security and customer privacy protection	Society
	3	Equal treatment for small and medium enterprises	Society
	4	Scientific and technological ethics	Society

[1]We comply with the *Guidelines No. 14 on the Application of Self-Regulation Rules for Listed Companies – Sustainability Report (Trial)* issued by Shanghai Stock Exchange, and for issues of neither financial materiality nor impact materiality, we provide explanations in accordance with Article VIII of the Guidelines:

① The Company's business is primarily engineering contracting, with standardized and transparent market competition practices.

② The Company's business scenarios involve relatively small-scale data processing, primarily focusing on engineering technical documents and project management information, without involving the collection of customer private data.

③ The Company's accounts payable (including notes payable) balance at the end of 2025 did not exceed RMB 30 billion, accounting for less than 50% of total assets, and did not meet the mandatory disclosure threshold.

Communication with Stakeholders

CHALIECO has forwardly communicated with stakeholders and established efficient and convenient communication mechanisms and channels to actively listen to the opinions and suggestions of stakeholders. The issues raised by stakeholders have been handled in a timely manner, so as to further improve the transparency of corporate operations and enhance the corporate management and operations capabilities.

Stakeholders	Expectations and demands	Communication and feedback approaches
Government and regulators	• Implementing national policies, laws and regulations • Promoting local economic development • Boosting industrial development	• Paper reporting • Advice and suggestions • Special topic reporting • Discussion on cooperation
Shareholders	• Returns and benefits • Compliance operations • Work safety	• Corporate bulletins • Special topic reporting • Field investigation
Employees	• Protection of rights and interests • Occupational health • Remuneration and benefits • Career development	• Employees' congress • Collective negotiation • Democratic communication platform
Suppliers and customers	• Contract fulfillment according to the law • Integrity operations • High-quality products and services	• Business communication • Customer feedback • Exchanges and discussion
Environment	• Climate change response • Compliance with pollutant discharge standards • Energy-saving and emission reduction • Ecological protection	• Work reporting • Statements reporting • Investigation and inspection
Community and the public	• Improving community environment • Participating in public welfare activities • Disclosing information in an open and transparent manner	• Official website • Corporate bulletins • Interviews and exchanges

中铝国际工程股份有限公司
China Aluminum International Engineering Corporation Limited

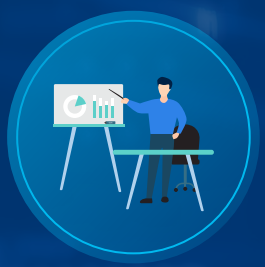
ESG Figures of CHALIECO



Economic responsibility

Investments in R&D

RMB **95,938.40** million



Social responsibility

Coverage of safety training

100%

Number of hours for employee training

744,492.5 hours

Signing rate of labor contracts

100%

Number of people employed during reporting period

93 persons



Environmental responsibility

Investments in environmental protection

RMB **30.3546** million

Number of participants in environmental protection training

8,692 person-time

Number of people receiving training on legal compliance

1,889 person-time

Legal review rate of important corporate business decisions

100%

Investment in supporting workers in need

RMB **319,900**

Total water consumption

647,206 tons

Energy consumption per RMB 10,000 output value

0.0099 TCE/RMB 10,000

CSR Topic I

Craftsmanship Cultivation – Sailing Overseas to Explore New Horizons

For over two decades, CHALIECO has continuously deepened its dual-drive strategy of "technology + internationalization", connecting global industrial trends with Chinese technology and standards, and demonstrating the responsibility of a central enterprise in the new journey of "going global". In 2025, CHALIECO achieved a breakthrough in its overseas business, with newly signed contracts totaling RMB 22.148 billion, a year-on-year increase of 263.38%. It was once again listed in the ENR "Top 250 International Contractors" and "Top 250 Global Contractors," realizing the mutual advancement of high-quality corporate development and the well-being of the "Belt and Road" initiative.

Crafting Overseas Premium Projects with Technical Excellence

Leveraging its leading advantages in non-ferrous metal engineering technology, CHALIECO integrates craftsmanship into overseas technology exports and project construction, innovatively implementing a "Chinese standards + local adaptation" model to drive high-quality development of overseas projects with advanced technology and standards.

Exporting core technologies to break international monopoly barriers

- The North Kalimantan Electrolytic Aluminum Project in Indonesia applied multiple proprietary technologies, including the internationally advanced SY500 prebaked anode electrolytic cell, pot calciner, open anode baking furnace, ultra-fine droplet horizontal desulfurization system, and power grid stability control system, ensuring the safety, reliability and stability of core equipment.
- The Simandou Mining Operation and Maintenance Project in Guinea deployed a customized technology package, overcoming local complex geological and climatic challenges to become a benchmark for third-party market cooperation under the "Belt and Road" initiative.
- Through the "Conveyance System Speed-Up" special initiative, the Guinea Boffa Bauxite Project achieved a record-breaking first-time shipment volume exceeding 20 million tons of bauxite, setting a new benchmark for technological innovation.

Digital and intelligent management deployment, enhancing control efficiency

- Launched two core systems – Smart Construction Site and Digital Delivery, and established an overseas project data platform covering the entire "construction – management – operation" workflow, creating a standardized digital-intelligent management model.
- Comprehensively applied digital-intelligent systems in key projects like Indonesia and Guinea, enabling real-time monitoring of construction progress and equipment status, automatic hazard detection, and improved project management efficiency.

Building a Solid Foundation for Overseas Operations with Compliance Excellence

Strengthening compliance operations

Established a three-tier compliance management framework of "headquarters coordination - regional execution - project implementation", guiding all projects with unified standards to mitigate operational risks. In 2025, the Company continued implementing management requirements such as the *Administrative Measures for Overseas Market Operation, Administrative Measures for Overseas Projects* and *Administrative Measures for Overseas Institutions*, and issued the *Overseas Market Project Marketing Incentive Measures* to enhance overseas contract quality and solidify institutional safeguards for the advancement of overseas business.

Deepening local integration

Adhered to a "localization + internationalization" management model, strictly respecting local laws, regulations and cultural practices, while focusing on hiring and upskilling local talent to build compliant localization and talent development mechanisms. Promoted localized procurement and actively participated in overseas expos and industry chain forums, offering global clients comprehensive solutions across the non-ferrous metals sector, full industry chains, and project lifecycles.



First "Mentor-Apprentice" Pairing Signing and Ceremony Held at Guinea Simandou Project Site

Fostering Community Well-Being with People-Centric Craftsmanship

CHALIECO upholds the principle of "building one project, revitalizing one region", integrating local community welfare into overseas business development through livelihood improvements and public welfare initiatives for mutual prosperity.

• Investing in infrastructure to enhance residents' quality of life

- Special funds were invested to implement multiple livelihood projects, constructing demonstration fields, medical stations, primary schools, football fields and other livelihood infrastructure in multiple countries; over thirty wells were drilled in 20 villages such as Kocaya and Bindan in Guinea, freeing residents from water scarcity; high-power generators and heavy equipment like loaders and trucks were donated to help address local power shortages.
- Road infrastructure was built to support the Simandou project, further improving the local transportation network; the Indonesia Alumina Project Department completed a 5 km main road from the plant area to the port, ensuring efficient material transport for the project while alleviating local traffic pressure.

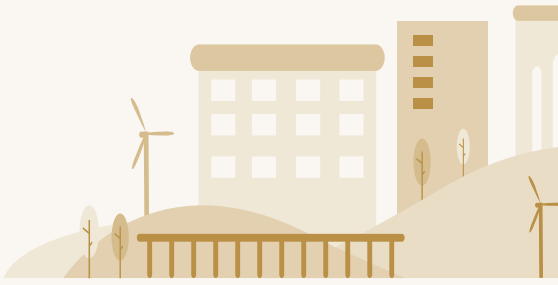


The 5 km road from the Indonesia Alumina Project Plant Area to the port was successfully opened to traffic.

• Public welfare assistance and cross-cultural exchanges, demonstrating the warmth of central SOEs' responsibility

- Medical aid, educational support, and other public welfare activities were carried out, with targeted donations of medical supplies, disaster relief materials, and school supplies, fulfilling corporate social responsibility
- Various Sino-foreign cultural exchange activities were comprehensively organized to promote cross-cultural understanding and integration, strengthening deep bonds with local communities





Case

Participating in disaster relief in Sumatra, Indonesia, as a responsible global corporate citizen

In November 2025, three provinces in North Sumatra, Indonesia, experienced severe flooding not seen in decades. CHALIECO promptly monitored the disaster's progress and actively responded to the relief initiatives of the Chinese Embassy in Indonesia and the China Chamber of Commerce in Indonesia, donating IDR 100 million in targeted disaster relief funds to the flood-affected areas in the three provinces of Sumatra. Meanwhile, CHALIECO's local institutions fully supported the region in livelihood resettlement and post-disaster reconstruction, providing relief to affected communities.



CHALIECO and the China Chamber of Commerce in Indonesia attended the donation handover ceremony

CSR Topic II

Digital and Intelligent Empowerment, Uniting for a New Journey of Construction

CHALIECO deeply understands the strategic significance of digital transformation for high-quality corporate development, systematically promoting the integration of digital technologies with engineering design, production operations and management systems. By building intelligent platforms, implementing industrial AI applications and constructing smart factories and mines, the Company comprehensively empowers business innovation and efficiency improvement, striving to set a benchmark for digital and intelligent transformation in the non-ferrous metals industry.

Top-level Coordination, Building a "Unified Strategy" Digital Intelligence Development Framework

CHALIECO actively fulfills the headquarters' digital coordination management functions, strictly implements the group's digital strategy deployment, formulates and releases the *2025 Digital and Intelligent Empowerment Action Plan*, initiates the preparation of the "15th Five-Year" digital planning, promotes the comprehensive integration of digital construction into the group's management system, enhances operational management quality and efficiency, drives production line transformation and upgrading, advances the "one network, one cloud" initiative, organizes command meetings for digital transformation and AI implementation, and strives to build a new "unified strategy" digital intelligence development framework that is collaborative, efficient and comprehensive.



In March 2025, CHALIECO held the plenary meeting of the 2025 Digital Transformation and AI Implementation Command



In August 2025, the semifinals of the 8th Chinalco Innovation, Creativity and Efficiency Competition (AI Category), hosted by CHALIECO, were held at SAMI

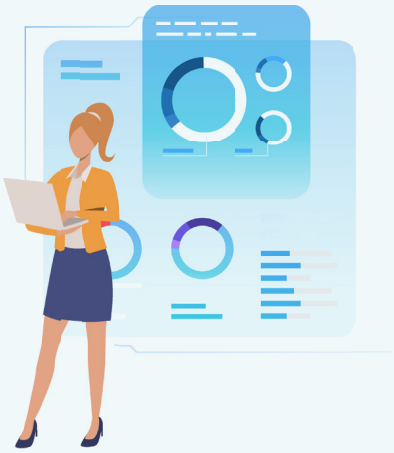
Deepening Scenarios to Drive Effective Implementation of "Intelligent Manufacturing" in Key Areas

CHALIECO focuses on smart factory and intelligent mine construction, deepens the integration of AI with industrial scenarios, and promotes the implementation and large-scale application of key technologies. In 2025, six AI application scenarios, including the "Large Model-Based Aluminum Smelting Fire Protection Design Review System", were successfully approved. Among them, the first batch of "Aluminum/Copper Surface Optical Inspection" projects passed acceptance and achieved replication and promotion, effectively transforming industrial AI visual inspection capabilities; the smart construction site platform project completed preliminary acceptance, supporting the digital upgrade of engineering management.

Case

CNPT | Driving Digital Transformation in Nonferrous Metal Processing with AI

CNPT responds to the national intelligent manufacturing plan and industry growth stabilization initiatives, building a multi-level industrial internet cloud platform. Leveraging AI technology, it achieves intelligent upgrades across the entire production chain, forming a replicable "AI + Industrial Internet" industry model, providing key technical support for the digital and green transformation of the industry. In 2025, the case *Integrated Digital Factory Solution and Application for Nonferrous Metal Processing Based on Industrial Internet Platform* of CNPT was selected as an outstanding ESG practice case in the nonferrous metals industry and successfully included in the first batch of manufacturing digital transformation promotion center construction entities by the Ministry of Industry and Information Technology, becoming a benchmark for digital transformation in nonferrous metal processing.





CNPT Industrial Internet Platform



"Black Light Factory" Project for Heat Treatment Process of CHINALCO Ruimin has been officially put into operation

Case

CHALIECO Survey and Design Institute | Empowering Mine Resource Development with Digital-Intelligent Exploration

CHALIECO Survey and Design Institute focuses on key technical challenges in mine resource development, with digital-intelligent exploration as the core approach. It integrates high-precision surveying, advanced geophysical exploration, group-well pumping tests, and dynamic monitoring technologies to build a 3D dynamic hydrogeological model of mining areas, innovatively forming a comprehensive exploration technology system featuring "air-ground integration, pumping verification and 3D simulation". This technology has improved the key data collection accuracy by over 50%, downgraded the hydrogeological conditions of mining areas from "complex" to "moderate," resolved a decade-long development stagnation issue, and saved approximately RMB 200 million in construction investment.

This technology has improved the key data collection accuracy by over

50%

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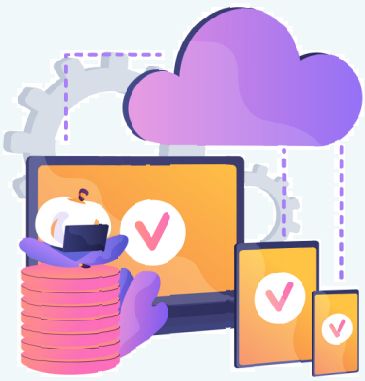
in construction investment.



Case

SAMI | Full-factor Intelligent Centralized Control Center for Aluminum Smelting Production

Leveraging its proprietary centralized control platform, SAMI has developed an intelligent production management system – termed the "Smart Brain" – for aluminum smelting. The platform features an independently developed, secure and highly reliable system architecture. It supports both C/S and B/S distributed control modes and ensures seamless interoperability with leading domestic and international control systems and communication protocols. This platform is deployed on a private cloud infrastructure, achieving integrated monitoring and centralized management of the automation and intelligent systems in the entire plant, including DCS/PLC, cell control system, power system (high voltage/rectification), video surveillance, inspection robot and intelligent lighting. By leveraging information technology, the platform enhances human execution capabilities and subjective initiative, and facilitates fundamental changes in production organization mode and management mode, thereby improving production efficiency, reducing costs and optimizing resource utilization.





Improve corporate governance — Compliant operation — Strengthen the risk prevention and control



We respond to SDGs:



01

Economic Responsibility

Scientific Governance and Stable Operation through Hard Work

CHALIECO systematically optimizes governance structures and operational mechanisms to enhance corporate governance and decision-making efficiency; it comprehensively advances legal and compliant operations, improves risk management and internal control systems, and effectively strengthens risk prevention capabilities across the organization, laying a solid foundation for the steady and long-term development of the "New CHALIECO".

Improve Corporate Governance

Enhancing Construction of Board of Directors

In 2025,
the Company held

6
meetings of the Board of Directors

1
meeting of the Board of Shareholders

CHALIECO continues to improve its board governance system, strictly adhering to regulations such as the *Rules of Procedure for the Board of Directors of China Aluminum International Engineering Corporation Limited*. It comprehensively clarifies the boundaries of authority and responsibility among governance entities by refining the operational processes of the board's six key functions and optimizing the scope of enterprises required to establish the board, which ensure a clear governance structure and standardized decision-making procedures; the Company focuses on strengthening directors' performance of duties and dynamic management, compiling multiple guidelines and lists for performing duties, and establishing performance records for directors integrated into the performance evaluation system. These measures effectively safeguard directors' right to information, enhance the scientific rigor and transparency of board decisions, and drive continuous improvement in corporate governance. In 2025, the Company held 6 meetings of the Board of Directors, and 1 meeting of the Board of Shareholders. The Company was awarded honors including the "2025 Golden Bull Award for Corporate Governance", "4A Rating for Performance Evaluation of the Secretary to the Board" and "2025 Best Practice Case for Board Office".

Diversity of the Board of Directors

The structure of Board of Directors is continuously optimized, with a focus on diversifying members' professional backgrounds and expertise. The board members cover key dimensions such as corporate governance, mining and metallurgical engineering, finance and law, and international operations. The board actively promotes gender diversity to enhance the comprehensiveness of decision-making perspectives and deliberation robustness.

Independent Director Development

The Board of Directors currently consists of 9 members, including 3 independent directors with diverse backgrounds from industry and academia. They effectively fulfill their roles in strategic decision-making, risk management and compliance oversight, significantly enhancing the scientific and objective nature of board decisions.



Standardizing information disclosure

CHALIECO continuously improves its information disclosure governance system, systematically sort out the disclosure standards and procedures, and establishes a closed-loop management mechanism covering the entire process from information reporting to external disclosure, solidifying the institutional foundation; through "external training and internal learning", it strengthens compliance training, and enhances the awareness and execution capabilities of all employees regarding information disclosure compliance, ensuring the truthfulness, accuracy, completeness and timeliness of disclosures.

Enhancing the effectiveness of information disclosure

Actively addressing the concerns of investors and analysts, the Company emphasizes combining text with visuals in disclosures to improve the readability and decision-usefulness of periodic reports; adhering to the principles of "strictness, abundance and high standards", it establishes a joint review mechanism between the disclosure and publicity departments to ensure compliant and secure information dissemination.

Enhancing the information disclosure quality management

A multi-level review mechanism covering the entire process of preparation and release has been established. During the preparation phase, a triple-check system is enforced, involving the business departments, domestic and international legal advisors, and the disclosure team; the release phase adopts a "upload + verification" dual-person validation process to ensure accurate and standardized disclosures.

Protect shareholders' equity

Strengthening communication with investors	An investor relations team centered around management has been established to maintain close communication with the market through diversified channels. In 2025, the Company organized 12 investor exchange events, responded to 23 inquiries on the SSE e-Interaction platform, and promptly addressed investor hotline consultations; it also held 3 regular earnings briefings with full management participation to actively communicate corporate strategy and operational achievements.
Implementing equity incentives	Steadily advancing the development of a mid-to-long-term incentive mechanism, the company launched its first restricted stock incentive plan in 2023, selecting Equity Return on Equity (EOE), compound growth rate of net profit attributable to shareholders, and Economic Value Added (EVA) improvement as performance metrics at the corporate level. This established a long-term mechanism for sharing interests among shareholders, the company, and employees.

Continuously deepening reform

CHALIECO has continuously deepened the reform of state-owned enterprises, focused on promoting business integration and capability restructuring in key fields. Taking CHALIECO Survey and Design Institute as the main entity, the survey business completed professional integration with CKY. It has implemented integrated management of its construction enterprises, formed a new pattern of construction business management, further remedied capability shortcomings and enhanced overall competitiveness.Six affiliated "science and technology reform enterprises" performed exceptionally, receiving "1 benchmark, 3 excellent and 2 good" ratings in assessments. Among them, ZCNPT achieved continuous improvement from "good" to "excellent" and then to "benchmark".

In 2025, the Company fully accomplished its annual reform tasks, achieving a 100% completion rate for 69 corporate-level and 359 subsidiary-level tasks, marking a high-quality conclusion to its reform and enhancement initiatives. Related achievements were featured on the front page of media outlets such as China Nonferrous Metals News, with over 20 case articles published. *Deepening Reforms: Adhering to 'Technology+' Synergistic Drive to Expand Overseas Business* was selected as a micro-case example of reform by the SASAC, creating a strong demonstration effect.

Compliant Operation

CHALIECO continues to advance the construction of a legal and compliant operational system, systematically working on institutional improvement, training enhancement and service support to comprehensively elevate the corporate compliance management capabilities.

Improving compliance management system

The fundamental compliance management system has been established and improved, and a professional document system covering five categories including monthly legal risk reports, overseas compliance guidelines, and engineering practice manuals has been compiled; the *Compliance Manual, Compliance Risk List and Post Compliance Responsibility List* have been iterated and upgraded; the **100%** legal compliance review mechanism for four key areas - regulations, major decisions, economic contracts and authorization documents has been strictly implemented to ensure risks in critical processes are controlled; the effectiveness evaluation of the compliance management system has been regularly carried out, fully aligning with regulatory requirements to promote the construction of a compliance management system that is "substantive in form and substance, practical and effective".

Deepening compliance training and education

The *2025 Legal Publicity Work Plan* was formulated, focusing on key personnel such as leadership and project management teams, organizing legal compliance exams, conducting specialized training around themes like "World Intellectual Property Day", publishing five issues of the *CHALIECO Legal Compliance Brief*, and compiling and updating the *Compliance Guide for Overseas Projects by Country (Region)*. In 2025, there were **27** participants in the law-abiding and compliance training and **7,033** examinees, with a pass rate of **99.46%**.

Strengthen the guarantee of legal services

Actively provide legal services and special support, offering legal safeguards for key projects and international operations to effectively prevent and control legal risks.



CHALIECO Held the Special Training on Legal Practice Risk Prevention and Control in August 2025.

Strengthen the Risk Prevention and Control

CHALIECO fully embedded the risk management into operational management process, formulating the *Detailed Implementation Rules for Comprehensive Risk Management of China Aluminum International Engineering Corporation Limited*, accurately identifying the top ten annual key risks through qualitative and quantitative methods, and establishing dynamic monitoring and early warning mechanisms for full-process tracking; strictly implemented the quarterly risk information reporting system to ensure timely communication and effective analysis of risk conditions; systematically conducted the risk management and control assessments and summaries, formulating the prevention objectives and measures for the next year to form the closed-loop management.

The Company focused on six major business processes, including marketing, project implementation, work safety, integrated finance, legal compliance and human resources, and released the first batch of 253 company-level processes in 24 categories to create a unified intermediate and backstage support and a streamlined, systematic and engineering system management capability.

Meanwhile, the Company continuously strengthened its internal control system by revising the *Detailed Implementation Rules for Internal Control Management* and supporting manuals, deeply integrating control measures into key business processes and major risk points; enhanced the internal control training, publicity and implementation to effectively raise the staff's risk prevention awareness and compliance capabilities; strengthened the collaborative operation between risk management and internal control to comprehensively reinforce the bottom line of risk prevention and control.



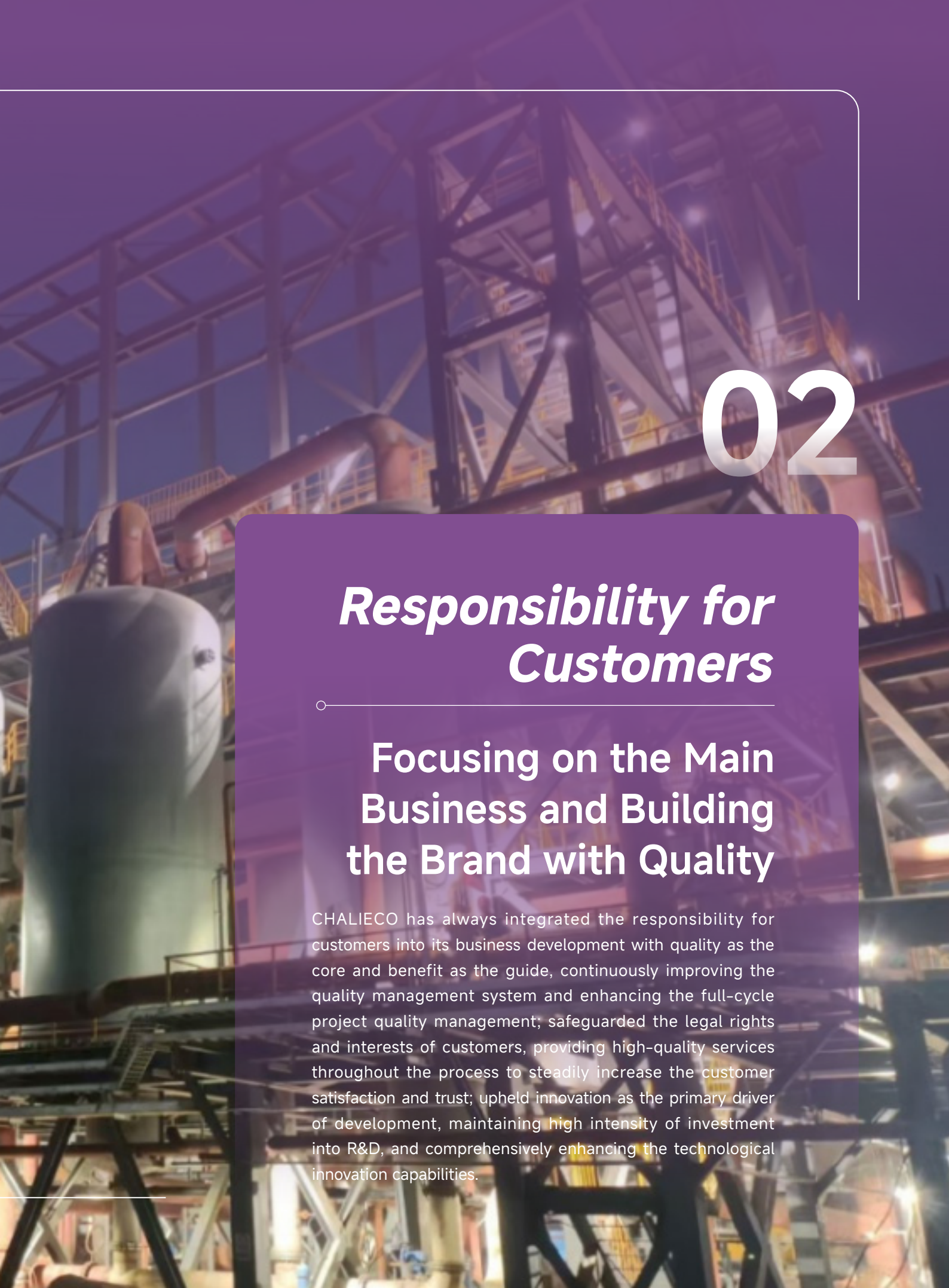
☒ Implementing quality assurance

☒ Providing excellent services

Deepening scientific and technological innovation



We respond to SDGs:



02

Responsibility for Customers

Focusing on the Main Business and Building the Brand with Quality

CHALIECO has always integrated the responsibility for customers into its business development with quality as the core and benefit as the guide, continuously improving the quality management system and enhancing the full-cycle project quality management; safeguarded the legal rights and interests of customers, providing high-quality services throughout the process to steadily increase the customer satisfaction and trust; upheld innovation as the primary driver of development, maintaining high intensity of investment into R&D, and comprehensively enhancing the technological innovation capabilities.

Implementing Quality Assurance

(*Issues of financial materiality: safety and quality of products and services)

Governance

CHALIECO has rigorously implemented the "three-level management and control" model for project quality control, clarifying the boundaries of authority and responsibility at the company, affiliated enterprise and project department levels, and establishing an efficient information reporting system. The quality management system covers the whole cycle of project, and is empowered by technology to realize informatization and fine management, with clear accountability throughout the process. At the same time, we have improved supervision procedures, cooperated with key projects to strengthen supervision, and relied on the model of "two systems" responsibility statement for strict assessment to continuously improve the quality of project operation.

Strategy

CHALIECO formulated the *List of Project Performance Risk Management and Control*, focusing on engineering quality and service areas, systematically identifying potential impacts, risks and opportunities, completing assessments with professional methods and prioritizing them accordingly; synchronously established a routine monitoring system to dynamically track relevant implementation situations, developed targeted preventive measures, and promptly addressed risks to ensure stable compliance with engineering quality and service standards.

Risk	Risk description	Time frame[2]	Impact degree[3]	Mitigation measures
Construction quality risk	Insufficient material quality control or construction scheme defects in high-risk projects (such as complex geological projects) may lead to engineering accidents, safety liability disputes and project delays.	Short term	Prefecture level	Strengthen the review of construction drawings and geological verifications based on the smart construction sites, and introduce the material traceability system for strict quality control; Prepare special plans for projects of high risks, undergo multi-departmental review and approval, and implement closed-loop management.
Quality inspection and testing	The update of inspection and testing standards, aging of equipment and insufficient professional ability of personnel may lead to inaccurate test results, hindering the project acceptance and delivery progress.	Medium term	Provincial level	Keep pace with standard updates, upgrading intelligent testing equipment and promoting advanced technologies; Conduct skill training and assessments for testing personnel, standardizing operational procedures to ensure the testing accuracy.
Technology application risk	Insufficient technical stability or lagging employee training during the promotion of new technologies may adversely affect engineering efficiency and construction quality.	Medium term	Group level	Pilot the application of new technologies in stages according to the Company's technological plans, and establish feedback mechanisms; Collaborate with scientific research institutions to optimize the technical stability, and conduct tiered training and emergency drills.

[2]Short term (within 1 year after the end of sustainability information reporting period, including 1 year), medium term (1 to 5 years after the end of sustainability information reporting period, including 5 years) and long term (more than 5 years after the end of sustainability information reporting period).

[3]Group level: It has a significant impact on the overall group operation; Provincial level: It has a great impact on regional or provincial business; prefecture-level: It has a certain impact on local business.

Impact, risk and opportunity management

Strengthening quality management

CHALIECO has strictly adhered to the national laws and regulations such as the *Construction Law of the People's Republic of China*, and implemented the internal system requirements including the *Administrative Measures for Quality of China Aluminum International Engineering Corporation Limited* and the *Implementation Opinions on Intrinsic Safety in Construction Projects of China Aluminum International Engineering Corporation Limited*. The Company has continuously optimized the project management business system by compiling a series of manuals on project, commercial and procurement management to promote the standardized, systematic and process-driven project management. The Company synchronously deepened the establishment of the project management system, clarified the quality control plans, management measures and inspection schemes, and implemented strict quality control throughout the entire process from design to construction, striving to create high-quality projects and set a benchmark for industrial quality management. In 2025, the Company's QHSE management system successfully passed re-certification. The system operation was compliant and effective.

Quality risk prevention and control

CHALIECO has attached great importance to quality risks, with multiple measures to ensure construction quality and reduce quality risks. The Company has implemented special governance actions to effectively enhance the operational quality of its projects; deepened the project patrol supervision mechanism, and continuously strengthened the performance capabilities of key projects; and actively organized the staff quality training and assessment activities, fostering a positive atmosphere where all employees emphasize and abide by quality. The Company has established special headquarters or project coordination groups for major projects to conduct on-site supervision, and implemented tiered supervision for all projects to comprehensively improve the project management level and ensure the project performance quality.

In 2025, the Company experienced no Class A quality incidents; both the participation rate and average score of the enterprise employees' total quality management knowledge competition reached "90+" standard, with 3 quality management models replicable and propagable among enterprises.



Building high-quality projects

CHALIECO's Achievements in 2025 Quality Brand Building

Award of Quality and Technology of China Association for Quality:

CNPT Project of "Integrated Manufacturing Technology and Key Equipment Development and Application for High-end Heat-resistant and Fine-grained Copper Strip"

Outstanding Engineering Quality Achievement Award in the National Metallurgical Industry:

"7 m Top-loading Coking Project of Shanxi Yuwang Coal Gasification Co., Ltd. with Capacity of 1.378 Million Tons per Year" Undertaken by Jiuye Construction



Award of National Excellent Engineering Exploration & Design:

"Qulong Copper Polymetallic Deposit Mining and Processing Project of Tibet Julong Copper Co., Ltd. with Capacity of 100,000 Tons per Day" Undertaken by CINF

"2013-2017 Provincially Unified Borrowing and Returning Project (Phase IX) for Urban Shantytown Renovation in Yunnan Province - Dabanqiaoji Town Area Construction Project in Airport Economic Zone" Undertaken by CHALIECO Survey and Design Institute

Nonferrous Metals Industry Quality Engineering Award:

CINF "1.2 Million Tons of Alumina Pipeline Upgrade and Transformation Project (Phase II)"

CHALIECO Survey and Design Institute "Shangrao Lithium Battery Copper Foil (Phase I) Construction Project with Capacity of 50,000 Tons per Year in Jiangxi Jiangtong East China Copper Foil Co., Ltd."

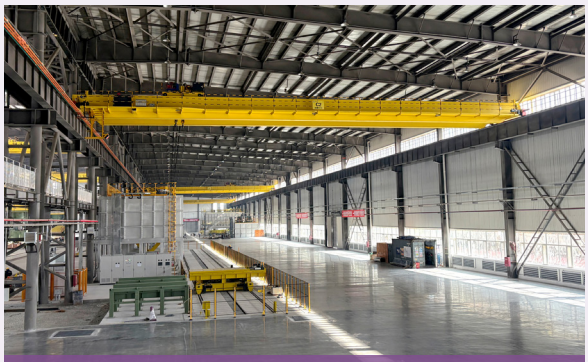
"Deppon Supply Chain Base Project of Zhengzhou Dexi Warehousing Co., Ltd." and "JD Asia No. 1 Jinan Xianxing Logistics Park Phase II Project" Undertaken by Jiuye Construction



"7 m Top-loading Coking Project of Shanxi Yuwang Coal Gasification Co., Ltd. with Capacity of 1.378 Million Tons per Year" Undertaken by Jiuye Construction



SAMI Chinalco Zhengzhou Aluminum Project



CHSMCC Dongqing Project



Detailed Geotechnical Survey Project of CHALIECO Survey and Design Institute Zijin Mining Caizigou Tailings Reservoir



Tongtian River-Qaidam Basin (Diversion) Project in Qinghai Province Undertaken by CHALIECO Survey and Design Institute



12MCC Chinalco Zhongzhou Aluminum Paste Tailings Reservoir Closure Project

Indicators and targets

2025 indicators	Target
The qualification rate for engineering design products is **100%**, and the excellent rate is **90%**; Zero Class A quality incidents.	The qualification rate for products is **100%**

Providing Excellent Services

Impact, risk and opportunity management

CHALIECO continuously enhanced the quality of customer services, strictly implemented marketing management systems, including the *Administrative Measures for Customer and Project Access Evaluation of CHALIECO Engineering Projects* and *the Administrative Measure of China Aluminum International Engineering Corporation Limited on Key Account Marketing*, improving customer maintenance mechanisms and conducting regular customer visits and demand investigations; established a robust customer complaint handling system with dedicated personnel for efficient response, ensuring strict protection of customer privacy; regularly organized customer satisfaction surveys to collect feedback, fulfilling quality assurance commitments through superior services.

Case

GAMI | Empowering Key Industrial Projects with Expertise and Winning Customer Trust Through Premium Service

In 2025, GAMI undertook the design of 2 million tons of Beihai Oriental Hope Alumina Project. Due to stressed construction period, heavy workload and high technical requirements, a core professional team was set up to deeply participate in survey analysis, proposal design and engineering coordination, overcoming implementation challenges through efficient collaboration and technical excellence. The project contributed to building a closed-loop green industrial chain, earning the owner's special commendation with a banner and a letter of appreciation for high recognition of GAMI's professional capabilities, rigorous approach and premium service.



GAMI Received a Banner and a Letter of Appreciation from the Owner

Indicators and targets

2025 indicators	Target
100% complaint resolution rate, and **94.85%** customer satisfaction	**100%** complaint resolution rate, and over **90%** customer satisfaction

Deepening Scientific and Technological Innovation

(*Issues of financial materiality: innovation motivation)

Governance

CHALIECO continuously established a rigorous and efficient governance structure and operation system, closely aligning with the "Four Special Strengths" objectives of Chinalco. We have deeply implemented the "S&T + Internationalization" strategy, established a two-level management system, and set up the Technology and Industrial Development Department to oversee the construction of the science and technology innovation system and R&D management. Leveraging the full-chain control system of "programming + planning + implementation supervision + examination and evaluation", CHALIECO has enhanced innovation and controlled efficiency throughout the process. Through the "project + talent + platform + mechanism" R&D system, we have attracted and nurtured high-level innovative talents, improved incentive mechanisms for innovation, and continuously stimulated the innovation vitality of all employees.



Strategy

Risk	Risk description	Time frame[4]	Impact degree[5]	Mitigation measures
Risk of technological change	The accelerated penetration of AI & green and low-carbon technologies in engineering services has exposed insufficient efficiency in the Company's core technology iteration, partially weakening its professional edge in non-ferrous metallurgical engineering field.	Medium term	Prefecture level	Establish a mechanism to track cutting-edge industrial technologies, and accelerate the iteration and upgrade of core technologies; Collaborate with scientific research institutions to tackle the technical challenges and strengthen the technological barriers in non-ferrous metallurgical engineering field.
Risk of subpar achievement transformation	The engineering applications of forward-looking scientific research projects face uncertainties at the initial stage, potentially leading to project delays, underperformance and impacts on operational efficiency and technological influence.	Short term	Group level	Establish pilot mechanisms for scientific research transformation, and implement engineering applications in phases; Develop evaluation systems for achievement transformation, dynamically optimize application plans, and mitigate implementation risks.
Intellectual property rights and data security risks	Overseas business development exposes technology exports to patent infringement and core data leakage risks, with weak IP protection in some countries diminishing the commercial value of technological achievements abroad	Medium term	Provincial level	Enhance overseas IP portfolio and protection systems, strengthening patent compliance reviews for technology exports; Implement tiered data security controls, and strengthen protection for overseas business data.

Opportunity	Opportunity description	Time frame	Impact degree	Mitigation measures
Strengthened policy support	In 2025, the national and local support for AI & green and low-carbon sectors was increased, which helped the Company secure key funding, reducing R&D cost and accelerating achievement transformation.	Long term	Provincial level	Closely monitor policy trends, and actively pursue special funding; Optimize R&D investment structure, focusing on priority areas to accelerate scientific research projects and reduce R&D costs.
Rapid market growth in green, low-carbon and intelligent market demands	The growing downstream demand for integrated solutions such as smart mining and low-carbon metallurgy creates development space and cooperation opportunities for the Company's high value-added technical services.	Medium term	Provincial level	Focus on customer needs, intensify R&D in relevant fields, and enhance integrated solutions; Advance digital platform development, deepen customer collaboration, and capture market share.
Continued enhance of international cooperation and collaborative innovation	In 2025, the breakthroughs in collaborative innovation of the Company with universities, research institutes and downstream customers laid technical foundations for expanding into high-end international engineering markets.	Short term	Group level	Deepen joint research, and establish regular collaborative innovation mechanisms; Optimize the international adaptation of core technologies, leverage cooperative achievements to cultivate key overseas markets, and enhance brand influence.

[4]Short term (within 1 year after the end of sustainability information reporting period, including 1 year), medium term (1 to 5 years after the end of sustainability information reporting period, including 5 years) and long term (more than 5 years after the end of sustainability information reporting period);

[5]Group level: It has a significant impact on the overall group operation; Provincial level: It has a great impact on regional or provincial business; prefecture-level: It has a certain impact on local business.

Impact, risk and opportunity management

Strengthen scientific and technological management

CHALIECO has firmly upheld Chinalco's primary requirement of "special strength in science and technology", fully implemented the Chinalco's deployment of "3+4+4+4" technological innovation system, improved the scientific and technological management system, and enhanced the scientific and technological innovation capabilities. In 2025, the Company systematically advanced the revision and implementation of management systems such as the *Administrative Measures for Scientific and Technological Research and Development Projects of China Aluminum International Engineering Corporation Limited* and the *Administrative Measures for Science and Technology Innovation of China Aluminum International Engineering Corporation Limited*, continuously strengthened R&D infrastructure construction and incentive mechanism guarantees, and actively promoted the fulfillment of scientific and technological achievement rewards.

Strengthen and optimize the scientific and technological planning system

Comprehensively completed the summary of the "14th Five-Year" technology plan, and compiled the "*15th Five-Year" Scientific and Technological Development Implementation Plan of CHALIECO*; formulated and issued the *Special Action Plan for 2025 Science and Technology Innovation of CHALIECO*, breaking down the annual targets and tasks into 157 specific measures to ensure the orderly progress of scientific and technological work.

Build an innovation highland for scientific and technological talents

Continuously strengthened the construction of scientific and technological talent teams, with 6 experts appointed as Chinalco's chief engineers and 19 experts selected into the Review Expert Database of the Ministry of Natural Resources; issued the *Work Plan of Building Core Scientific Research Team*, focusing on cultivating and building 24 core scientific research teams, and leveraging major projects to strengthen the talent echelon construction.

Build innovation platforms

CHALIECO continuously advanced the construction of scientific and technological innovation platform system supported by six major design and research institutes, strengthened the R&D of key core technologies, and promoted the efficient operation of platforms in mining resources, metal smelting, non-ferrous metal processing, green and low-carbon sectors and digital and intelligent transformation fields.

In 2025, breakthroughs were made in platform construction:

- CHALIECO Survey and Design Institute was included into the Ministry of Industry and Information Technology's sixth list of basic public service platform for industrial technologies, and established the "Digital Intelligence Safety Technology Innovation Center for Green Mines in Yunnan Province" as approved by the Yunnan Province Science and Technology Department;
- CNPT was selected into the Ministry of Industry and Information Technology's first construction entity list of digital transformation promotion center for manufacturing industry.

Deepen collaborative cooperation

CHALIECO actively deepened the collaborative innovation of industry-university-research-application, continuously strengthened the scientific research cooperation with universities and research institutions such as Central South University, promoted the two-way integration of basic research and application transformation, and formulated the *2025 Work Node Plan for CHALIECO and Universities in Contracting and Cooperative Scientific Research Projects* to systematically advance joint research. In 2025, the "Horizon Europe" program project jointly applied by CINF and institutions such as Newcastle University in the UK was approved, marking significant progress for the Company in the field of international scientific research cooperation.

Transformation of scientific and technological achievements

In 2025,

22

new scientific and technological achievements reached the internationally advanced or higher levels

CHALIECO actively promoted the transformation of scientific and technological achievements, leveraging the independent innovation capabilities and achievement transformation base advantages of its six major design research institutes, and performed joint researches on forward-looking industrial studies as well as scientific and technological innovation policies and directions; promoted the application of scientific and technological achievements within the Group's manufacturing bases and downstream customers; and accelerated the industrialization and value creation of scientific and technological achievements through the diversified "technology +" business development model. In 2025, 22 new scientific and technological achievements reached the internationally advanced or higher levels, and 19 scientific and technological awards were obtained, including provincial second-class and ministerial first-class awards from industry associations. The Company won 2 first prizes and 6 second prizes in the Third Chinalco Science and Technology Progress Awards; 99 core technological achievements were successfully applied and promoted.

Several key achievements were recognized and promoted nationally and provincially/ministerially:

- SAMI took the lead in drafting the *Norm on Energy Consumption Per Unit Product of Graphite and Fluorite* which was officially published as the only national standard in the field. The "Energy-saving and Long-life Aluminum Electrolysis Cell Cathode Manufacturing Technology" was included into the National Catalogue for Promotion of Key Low-carbon Technologies.
- CNPT's 1,850 mm aluminum strip twin-stand cold tandem rolling mill and 2,300 mm aluminum strip high-speed edge trimming unit were included into the list of recognized major technological equipment achievements in Henan Province, setting a benchmark for fully independent and controllable domestic high-end equipment.



CINF built the world's largest 198 m^2 fluidized roasting furnace for complex zinc-containing materials with key technology for the collaborative resource utilization of zinc-based multi-source solid waste and large-scale equipment.



Kunming Nonferrous Metallurgy Design and Research Institute has the scientific and technological achievement of "Key Technology and Application for Green and Efficient Smelting of Low-Grade Complex Copper-Cobalt Associated Ore in the Democratic Republic of the Congo" achieving the "international leading" level.

Intellectual property protection

CHALIECO has attached great importance to intellectual property management, strictly aligned with the national *Enterprise Intellectual Property Compliance Management System – Requirements,* comprehensively completed the revision and updating of intellectual property system documents, successfully passed the external audits, and obtained the new version of the *Intellectual Property Compliance Management System Certificate*, promoting intellectual property management towards standardization and systematization. In 2025, the Company continuously strengthened the patent layout and applications, filing more than 300 invention patents throughout the year and adding more than 300 valid authorized patents. The capacity for intellectual property creation and reserve was further enhanced, providing solid support for technological innovation and achievement transformation.

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300

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300

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Indicators and targets

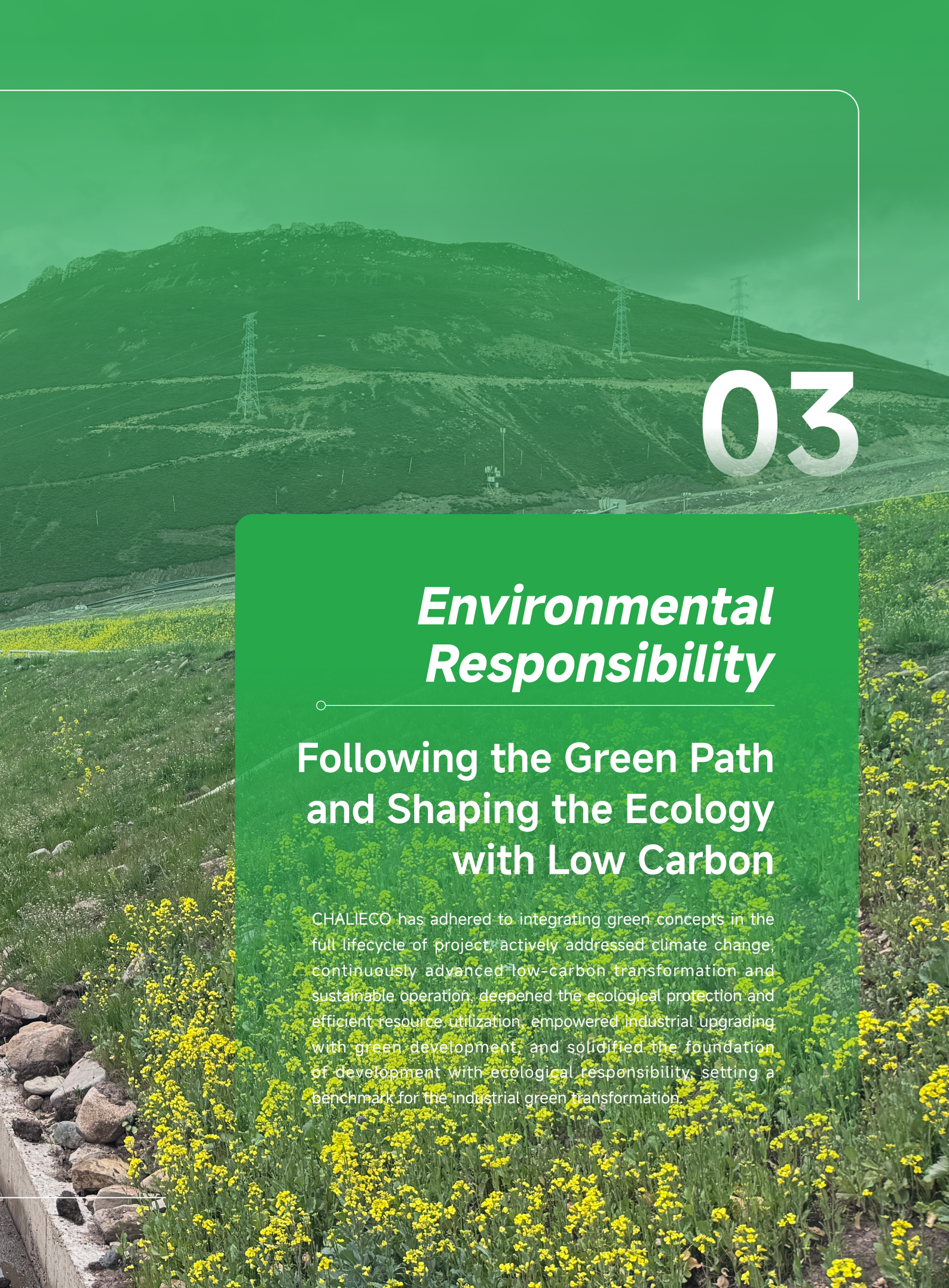
2025 indicators	Target
R&D investment reached RMB **959.3840** million, accounting for **4.16%** of the total	By 2026, the Company's overall R&D investment as a percentage of operating revenue will remain above **3.2%**



☒ Implementing " dual-carbon" actions — ☒ Perfecting green management — Practicing green operation — Advocating green lifestyle



We respond to SDGs:



03

Environmental Responsibility

Following the Green Path and Shaping the Ecology with Low Carbon

CHALIECO has adhered to integrating green concepts in the full lifecycle of project, actively addressed climate change, continuously advanced low-carbon transformation and sustainable operation, deepened the ecological protection and efficient resource utilization, empowered industrial upgrading with green development, and solidified the foundation of development with ecological responsibility, setting a benchmark for the industrial green transformation.

Implementing "Dual-carbon" Actions

(*Issues of financial materiality: Addressing climate change)

Governance

As the highest decision-making body for climate governance, the Board of Directors of CHALIECO is fully responsible for reviewing and approving climate change strategies and policies, overseeing the Company's measures and performance targets related to climate change, and also assessing and managing climate-related risks and opportunities.

Strategy

Risk	Risk description	Time frame[6]	Mitigation measures
Physical risk: extreme precipitation	There may be a risk of regional extreme precipitation. Rainstorms could destroy the facilities on the project site and soak the metallurgical equipment and construction materials, leading to project delay, increased equipment repair costs and impacts on personnel safety at site.	Short term and medium term	Upgrade the flood control and drainage facilities in a targeted manner based on the regional climatic characteristics of each project, with a focus on strengthening anti-seepage and flood control works in the open-air construction areas and equipment storage zones, while simultaneously optimizing the moisture-proof and protective systems for metallurgical equipment.
Physical risk: extreme heat/cold	The extreme heat in summer can easily cause overheating failure of metallurgical equipment and heatstroke of construction personnel while the extreme cold in winter may lead to equipment freezing and cracking, pipe blockage and disruptions to continuous operational processes.	Short term and medium term	Optimize equipment cooling systems in the high temperature scenarios, equip with intelligent cooling devices, and reasonably adjust working hours; prepare cold and frost prevention materials in advance for the extreme cold scenarios, and transform the thermal insulation functions of equipment pipelines.

[6]Short term refers to within 1 year after the end of ESG reporting period (including 1 year); medium term refers to 1 to 5 years (including 5 vyears) after the end of ESG reporting period; long term refers to more than 5 years after the end of ESG reporting period.

Risk	Risk description	Time frame[6]	Mitigation measures
Transformation risk: Policy and compliance risks	The domestic and international "dual-carbon" policies continue to tighten. The stricter carbon emission accounting standards, green mine construction norms and ecological restoration assessment indicators are expected to be introduced. The Company may be fined and restricted in production in case of failure in promptly adapting to the policy requirements.	Medium term	Establish policy tracking mechanisms, proactively align with the latest regulatory requirements, and revise the Company's relevant institutional mechanism.
Transformation risk: technology substitution risk	New energy grid connection and energy storage technology are developing rapidly. If new energy grid connection technology is not applied in time, it will still rely on traditional energy, which will lead to a rise in cost and will be difficult to meet the requirements of energy conservation and emission reduction.	Long term	Focus on the sectors of new energy and non-ferrous metals, set up cross-institute R&D teams, accelerate the iterative upgrade and application of existing technologies, and simultaneously explore the adaptation schemes of new energy grid connection technologies in projects.
Transformation risk: market and reputation risk	Investors and customers are increasingly concerned about corporate climate performance. The Company's poor performance in climate risk management and control and green transformation may lead to the loss of high-quality projects, increased financing costs and a decline in industry leadership.	Medium term	Strengthen ESG performance management and control, and regularly disclose the progress in green transformation and the achievements of climate risk management and control;Leverage the creation of "green projects" to develop a series of climate-friendly benchmark projects and enhance market recognition.

Impact, risk and opportunity management

CHALIECO has actively responded to the national "dual-carbon" goals, integrating the response to climate change into the Company's development strategy, continuously improved the climate change risk assessment and management mechanism to effectively mitigate the adverse impacts of climate risks on production operation and project construction, and actively seized the development opportunities brought by low-carbon transformation based on the green technology R&D and innovative applications.

The low-carbon and long-life composite cathode technology and equipment for aluminum electrolysis cells researched and developed by SAMI have been applied in 55 aluminum electrolysis series domestically and internationally, saving 300-500 kWh/t-Al per ton of aluminum, approximately 6 billion kWh annually, and reducing CO_2 emissions by about 3.34 million tons.



The green, low-carbon and deep energy-saving aluminum electrolysis technology system (SY600+) reserched and developed by SAMI has saved over 30 billion kWh of electricity since its industrial application in 2020, equivalent to reducing CO_2 emissions by 17 million tons.



Improving Green Management

CHALIECO has always regarded environmental compliance as a fundamental requirement for corporate operation and project construction, strictly adhered to national and local ecological and environmental protection laws, regulations, standards, specifications and regulatory requirements, and established environmental compliance management systems to continuously improve the environmental compliance management capabilities.

(*Issues of financial materiality: environmental compliance management)

Governance

The headquarters has

1

full-time environmental protection manager.

All affiliated enterprises have appointed

24

full-time environmental management staff

CHALIECO has established a robust organizational structure for environmental management, set up an Occupational Health, Safety and Environmental Committee, and implemented a dual-director system. The Secretary of the Party Committee, Chairman, and General Manager serve as the directors of the Safety and Environmental Committee. The Company has also implemented the *Work Rules of the Occupational Health, Safety and Environmental Committee*. Both the Company and its affiliated enterprises have established HSE Departments, with dedicated personnel responsible for environmental management. The headquarters has a full-time environmental protection manager. All affiliated enterprises have appointed 24 full-time environmental management staff. Additionally, the Company has established a regular supervision, assessment, and accountability mechanism for ecological and environmental protection, and regularly reports information as required.

Strategy

Risk	Risk description	Time frame[7]	Impact degree[8]	Mitigation measures
Environmental compliance risk	Non-compliance in collection, storage and disposal of solid waste (including hazardous waste), exhaust gas, wastewater and noise involved in the Company's businesses may lead to personnel evacuation and transfer, direct economic loss and negative public sentiment within a certain scope.	Short term	Prefecture level	1. Strictly implement Chinalco's *Specifications of Ecological and Environmental Protection Management System*, and concurrently enforce the *Administrative Measures for Identification and Control of Potential Risks in Ecological Environment;* 2. Identify environmental factors with the direct determination method or multi-factor evaluation method, establish environmental targets, indicators and management plans for significant environmental factors, and strengthen the internal and external communications; 3. Rigorously manage and control the whole process of pollutant discharge permits, legally obtain the pollutant discharge permits, and standardize self-monitoring, information disclosure and record keeping.

Impact, risk and opportunity management

CHALIECO managed and controlled various environmental risks comprehensively throughout the process by establishing and continuously improving its environmental management system and emergency response mechanism; identified and controlled the environmental risks and potential hazards to effectively prevent environmental risks and mitigate adverse environmental impacts.

Improve management mechanism

CHALIECO has attached great importance to environmental compliance management, strictly adhered to laws and regulations environmental protection standards and corporate standards, such as the *Environmental Protection Law of the People's Republic of China and the Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution,* and established the internal environmental protection management systems covering both domestic and international operations, with key revisions during the reporting period including 4 core regulations, including the *Management Regulations on the Safety and Environmental Protection Education and Training and the Regulations on the Safety and Environmental Protection Management of Overseas Projects.* 10 environmental protection management systems have been issued and implemented by the end of 2025, comprehensively strengthening the institutional safeguards for environmental management.

10
environmental protection management systems have been issued and implemented by the end of 2025

[7]Short term refers to within 1 year after the end of ESG reporting period (including 1 year); medium term refers to 1 to 5 years (including 5 vyears) after the end of ESG reporting period; long term refers to more than 5 years after the end of ESG reporting period.

[8]Group level: It has a significant impact on the overall group operation; Provincial level: It has a great impact on regional or provincial business; prefecture-level: It has a certain impact on local business.

Emergency response

CHALIECO continuously strengthened its emergency management system for environmental protection, formulated the *Regulations on Reporting and Investigation of Environmental Emergencies,* and established a four-tiered classification control and four-color warning linkage emergency response mechanism for sudden environmental incidents. Subsidiary enterprises strictly implemented relevant institutional requirements. Upon identifying potential risks of sudden environmental incidents, they immediately initiated emergency responses and swiftly implemented measures such as pollution source control to mitigate, reduce and eliminate pollution impacts effectively. Meanwhile, the Company regularly organizes emergency drills to continuously enhance the emergency response capabilities and readiness of all employees in environmental protection.



CINF Southern Engineering Conducted Emergency Drill for Sudden Environmental Incidents

Environmental risk investigation

CHALIECO deepened the identification and control of potential risks in ecological environment, strictly adhered to the requirements of the *Accurate Management System for Ecological Environmental Protection of Chinalco,* and formulated the *Administrative Measures for Identification and Control of Potential Risks in Ecological Environment* to identify key environmental factors with scientific methods and implement management and control measures. The Company established a hierarchical responsibility mechanism between headquarters and affiliated enterprises, clarifying closed-loop management requirements for self-inspection, self-correction and self-verification at all levels; built a multi-dimensional identification mechanism combining comprehensive, routine, special and spot identifications to standardize the identification frequencies at all levels, ensuring early identification and rectification of potential hazards. By the end of 2025, all 268 ecological and environmental issues (potential hazards) identified by the Company and its affiliated enterprises have been rectified.

Indicators and targets

2025 indicators	Target
The Company invested a total of RMB **30.3546** million in environmental protection. The Company has not been administratively or criminally punished for violation of environmental protection laws and regulations.	Continued increases in environmental protection investment

Practicing Green Operation

CHALIECO has always implemented green development concepts throughout the engineering construction and production operations, standardized green construction practices, continuously optimized resource allocation and utilization efficiency, strictly enforced the pollutant emission control requirements, and intensified efforts in green technology R&D and achievement transformation, solidifying the green foundation for sustainable corporate development.

Advance green construction

Green Construction Demonstration Project in the Construction Industry

Gold Medal Demonstration Project for New Technology Application in the Construction Industry

The Company integrated green construction concepts into all phases of project development, and optimized the planning of construction sites and the layout of work areas, ensuring timely land restoration and ecological rehabilitation after construction; printed and issued the *Standardized Atlas for Dust and Solid Waste Prevention and Control Management at Construction Sites* to further implement the "Six 100%" management and control requirements and strengthen the environmental management on the construction site; implemented a professional evaluation mechanism for construction plans to control the material consumption and waste generation from the design stage, prioritizing the low-noise and high-efficiency equipment and processes while scientifically scheduling work hours to minimize environmental and community impacts.

In 2025, the Company organized and promoted affiliated enterprises to create green benchmarks. The Technological Innovation Base Project for Healthy Industries in Zhengzhou High-tech Zone of Jiuye Construction was honored as the "Green Construction Demonstration Project in the Construction Industry" and "Gold Medal Demonstration Project for New Technology Application in the Construction Industry" in Henan Province for 2025.

Six 100% Targets for CHALIECO Project Construction

- 100% enclosure of the project site
- 100% hardening of roads in the site area
- 100% coverage of muck materials
- 100% sprinkling and cleaning
- 100% closed transportation of materials
- 100% cleaning of vehicles entering and leaving

Case

CINF | Green Construction Site with "Zero" Dust in Tongchuan Aluminum-based New Materials Project

The Tongchuan Aluminum-based New Materials EPC Project of CINF Southern Engineering actively explored green construction methods. By deeply integrating intelligent facilities with refined management, it established a multi-dimensional dust control system, including intelligent vehicle cleaning systems, mist cannon equipment, environmentally responsive spray belts and dust-proof green nets, effectively controlling dust pollution. The project simultaneously established equipment maintenance positions as well as water and electricity conservation supervision teams, strictly implementing the management mechanism of "pre-shift environmental briefing + post-shift effect review" to achieve the coordinated progress in green construction and efficient building.



Tongchuan Aluminum-based New Materials Project of CINF Southern Engineering

Optimization of resource utilization

In accordance with the *Energy Conservation Law of the People's Republic of China* and other relevant laws, regulations, policies and standards, CHALIECO established a sound energy management system, clarified energy-saving plans and implementation paths, and guided and supervised affiliated enterprises in standardizing energy-saving work. In terms of energy transformation, the Company accelerated the construction of new energy projects, steadily increased the use ratio of clean energy, and optimized the energy supply structure; established water saving management and control systems, take actions in water saving and emission reduction, and vigorously promoted the recycling and reuse of wastewater; during construction, selected water-saving equipment, enhanced equipment monitoring and maintenance, and eliminated waste phenomena such as "leaks, spills, drips and losses", achieving efficient water conservation and rational utilization. In 2025, the Company's energy consumption was 23,900 tons of standard coal, electricity usage was 75,219,200 kWh, fuel consumption was 14,101,326.70 liter, and total fresh water usage was 647,206 tons.

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fuel consumption was **14,101,326.70** liter

total fresh water usage was **647,206** tons



12MCC Baotou Aluminum 1.2 Million kW of New Energy Project in Darhan Muminggan United Banner



SAMI Zhahanaoer 350,000 Tons of Green Power Aluminum Project



Beihai Green Ecological Aluminum Project of CHSMCC Guangxi Investment Group



500 KA Regional Photovoltaic Project of Jiuye Construction Liancheng Aluminum

Strict control of pollutant emissions

CHALIECO has earnestly fulfilled its primary responsibility for pollution prevention and control, attached great importance to environmental protection and pollution prevention and control, continuously strengthened the management of pollutants such as waste gas, wastewater and solid waste, strictly controlled the concentration and total emissions of waste gas, and also established and improved wastewater treatment systems to ensure compliant emissions of waste gas and wastewater; formulated relevant waste disposal regulations, standardized the construction of solid waste storage facilities and temporary hazardous waste storage areas with proper labeling to ensure compliance at all stages; simultaneously accelerated the R&D of green and low-carbon technologies to achieve the resource utilization of waste gas, wastewater and waste, supporting green development with practical actions and reducing negative environmental impacts. In 2025, the Company experienced no general environmental emergencies, major environmental pollution incidents or ecological damage.

CINF achieved the resource utilization of wastewater, waste residue and waste salt through the research, development and application of sodium-free sulfide deep thallium and arsenic removal and resource utilization technology in lead-zinc smelting wastewater.



Green technology research and development

CHALIECO has vigorously promoted the adoption and application of energy-saving and environmental protection technologies, and continuously conducted research and development on energy-saving processes, technologies and equipment with focus on improving energy utilization efficiency, reducing energy consumption and pollutant emissions, and actively providing the industry with environmentally friendly and sustainable integrated solutions and technical support.

SAMI

- "Energy-saving and Long-life Aluminum Electrolysis Cell Cathode Manufacturing Technology" was enrolled into the *National Catalogue for Promotion of Key Low-carbon Technologies (Fifth Batch)*

GAMI

- "Research and Application of Intelligent Crust Breaking and Feeding Control Technology for Aluminum Electrolysis Cell" won the first prize of "Five Small" Outstanding Technological Innovation Achievements of Workers in Guizhou Province

CINF

- "Green and Efficient Comprehensive Utilization of Copper-Nickel-Cobalt Complex Materials" was enrolled into the *Catalogue for Green and Low-carbon Advanced Applicable Technologies, Equipment and Products Encouraged for Development in the Industrial Sector in Hunan Province (2025 Edition)*
- 3 achievements including the Short-Process Non-Blasting Continuous Mining Technology for Hard Rock Deposits have been selected in the Advanced and Applicable Technologies for Mineral Resource Conservation and Comprehensive Utilization (2025 Edition) issued by the Ministry of Natural Resources

CHALIECO Survey and Design Institute

- 2 achievements including "Key Technologies for Ecological Restoration in High-altitude Mining Areas" were selected into the *Catalogue of Advanced Applicable Technologies for Conservation and Comprehensive Utilization of Mineral Resources (2025 Edition)* of the Ministry of Natural Resources

Advocating Green Lifestyle

CHALIECO has vigorously promoted environmental protection concepts, advocated green and low-carbon lifestyles, persisted in ecological protection and restoration, taken concrete measures to protect the green and beautiful planet home, and contributed to sustainable development.

Strengthen environmental protection concepts

CHALIECO has actively guided employees to practice green and low-carbon concepts, organized participation in public welfare activities related to environmental protection, and advocated simple and moderate healthy lifestyles; replaced lighting with energy-saving LED lamps, eliminated long-term lighting, and promoted paperless offices; leveraged occasions such as "June 5" World Environment Day and Arbor Day to carry out green and low-carbon themed activities, organized environmental protection warning education and training, and continuously improved the Company's environmental protection management level.



In August 2025, CHALIECO conducted the standardization and publicity of ecological and environmental protection management systems and the training of appraisers



In March 2025, the CNPT Youth League Committee organized young volunteers to carry out the tree planting and green protection activities

Ecological protection and restoration

CHALIECO has deeply implemented the concept that "lucid waters and lush mountains are invaluable assets", adhered to the principle of prioritizing protection and ecological restoration, and actively avoided nature reserves and wildlife migration channels in its operations and construction projects, minimizing negative impacts on wildlife; solidly advanced the ecological maintenance, governance and restoration around affiliated enterprises and engineering projects, consolidated the effectiveness of ecological restoration, and continuously maintained the ecological balance of the locations where affiliated enterprises and projects are situated.

For the greening project of the outer dam slope of the Nuomanong Tailings Pond by CHALIECO Survey and Design Institute, an innovative process of "optimized soil covering + improved planting" was adopted, combined with a cultivation method of "standardized seeding + ecological membrane protection" for implementation. After greening, the regional dust emission decreased by over 80%, and the ecological chain in the pond area has achieved preliminary recovery.



During the ecological governance and restoration of abandoned tailings ponds in the Dongchuan mining area of Yunnan Province, Kunming Nonferrous Metallurgy Design and Research Institute transformed the tailings area into a rural tourism attraction integrating ecology, leisure, cuisine and sightseeing.



Deepening Strategic Cooperation — Promoting industry development — Strengthening Supply Management



We [illegible]spond to SDGs.

SUSTAINABLE DEVELOPMENT GOALS

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

17 PARTNERSHIPS FOR THE GOALS



04

Responsibility for Partners

Working Collaboratively and Gathering Strength with Sincerity

CHALIECO has deepened strategic cooperation based on the overall development of the industry, working with partners from all sectors to build synergistic strength and weave a dense network for collaborative industrial development; actively participated in the formulation of industrial standards, deepened mutual learning and exchange within the industry, and empowered high-quality industrial development; established a full-process responsible supply chain system to effectively ensure the resilience and security of supply chain.

Deepening Strategic Cooperation

CHALIECO closely aligned with the industrial development trends with technical exchange as a bond and scientific research cooperation as support to build a strategic cooperation system that connects internally and expands externally, involving multiple parties; promoted the integration of resources and complementary advantages across the industrial chain, strengthened the domestic and international collaborative innovation, and empowered high-quality corporate development and industry-wide collaborative advancement through strategic partnerships.

Cooperation between enterprises

CHALIECO deepened multi-level strategic cooperation between enterprises, engaging in technical exchanges and sharing achievements with domestic and international companies such as Guangxi Investment Group, Rio Tinto Group and Vinacomin; precisely aligned with customer requirements, discussed technological trends and cooperation directions in key areas of the aluminum industry, and transformed technological advantages into collaborative strengths, fostering synergy for industrial development.



In March 2025, CHALIECO signed a strategic cooperation agreement with Sinotrans in Beijing


In December 2025, CHALIECO held a technical exchange meeting in the mining sector with Yunnan Phosphate Chemical Group in Kunming

Case

Kunming Nonferrous Metallurgy Design and Research Institute | "BIMBasePlant" Joint Laboratory Established Together with Glory PKPM Technology

In October 2025, CHALIECO Kunming Nonferrous Metallurgy Design and Research Institute and Beijing Glory PKPM Technology established the "BIMBasePlant 3D Factory Joint Digital Innovation Laboratory". Both parties focused on standardizing 3D modeling, collaborative design and digital delivery in the nonferrous metals industry, aiming to tackle common technical challenges and drive digital breakthroughs in the sector. The laboratory aims to create a domestic software platform, breaking foreign monopolies, helping enterprises transition from reliance on imports to independent applications, and providing "Chinese solutions" for the intelligent transformation of the metallurgical industry.

University-enterprise cooperation

CHALIECO actively expanded cooperation with universities, and established long-term mechanisms for talent cultivation, technical collaboration and project development across multiple levels, continuously improving the joint training and delivery system for specialized talents.



In September 2025, North China University of Technology visited CHALIECO to hold discussions on industry-education integration, scientific research transformation and talent cultivation

Government-enterprise coordination

CHALIECO deepens coordination and interaction between government and enterprise, and establishes a regular communication and cooperation mechanism with local governments. Focusing on core areas such as upgrading of the non-ferrous metal industry, green and low-carbon development, and construction of major projects, CHALIECO gives full play to its advantages in technology, industry and resources, realizing resonance and win-win results between enterprise development and local economic construction.



In July 2025, Mr. Sylla, Vice Chairman of the National Transitional Council of Guinea, and his delegation visited CHALIECO GAMI, and conducted in-depth discussions on green development of the aluminum industry, technical cooperation and other fields



In December 2025, Hu Zhongxiong, Member of the Standing Committee of Guizhou Provincial Party Committee and Secretary of Guiyang Municipal Party Committee, conducted research and held discussions at GAMI

Promoting Industry Development

CHALIECO deeply integrates into the overall situation of industry development, leads standardization through formulating standards, and gathers strength through industry exchanges, helping the industry achieve high-quality development.

Standard formulation

In 2025, the Company newly initiated **32** standards at or above the group standard and local standard levels

among which **7** were presided over

CHALIECO gives full play to its leading role in industry standardization. The mandatory national standard *Norm on Energy Consumption Per Unit Product of Graphite and Fluorite and* the industrial standard *Code for Construction and Acceptance of Activated Carbon Dry Desulfurisation and Denitration Installation Engineering*, which it led the formulation of, have been successfully approved and issued, filling domestic and even international gaps in specialized fields. In 2025, the Company newly initiated 32 standards at or above the group standard and local standard levels, among which 7 were presided over. High-standard R&D empowers the standardized and regulated development of the industry.

Industry exchanges

CHALIECO deepens docking and exchanges with industry associations and takes the initiative to build an industry technology exchange platform. In 2025, it hosted or undertook a number of large-scale industry events, including the "2nd China Lead and Zinc Industry Science and Technology Conference", the "Symposium on Advanced Metallurgical Technology and Equipment for Heavy Non-ferrous Metals", and the "5th High-end Forum on Nonferrous Metal Intelligent Manufacturing". The Company actively shares cutting-edge technologies and exchanges development experience, gathers joint forces for industry development in diverse forms, and supports technological innovation and high-quality development of the non-ferrous metal industry.



In May 2025, CHALIECO attended the China Nonferrous Metals International Cooperation Alliance Annual Conference held in Jakarta, Indonesia



In June 2025, CHALIECO attended the 2025 (21st) China Non-ferrous Metals Mining Conference and exchanged experience and technologies with industry partners

Strengthening Supply Management

CHALIECO strives to build a modern supply chain system, promotes digitalization and standardization of the whole process, and improves procurement transparency and execution efficiency. It establishes and improves a supply chain risk prevention and control mechanism to dynamically monitor and provide early warning of major risks such as raw material price fluctuations, geopolitics and delivery disruptions. It innovates supply chain financial models to ease capital pressure on upstream and downstream enterprises and enhance coordination resilience along the chain. It improves the whole-life-cycle management of suppliers, and strengthens source quality control and supply stability management. It implements green procurement, promotes low-carbon transportation and circular packaging, deepens industrial chain collaboration, and builds an open, shared, mutually beneficial and win-win sustainable supply chain ecosystem.

(*Issues of financial materiality: supply chain security)

Governance

CHALIECO has established a sound governance structure for bidding and tendering. A Bidding Supervision Committee is set up as the primary management and decision-making body for bidding and procurement, to coordinate the management of business units, with an office under it as the daily working body. The Company has established an all-in-one bidding supervision system integrating internal management, external institutions, employees and the public, and public opinion, realizing all-round, whole-process and full-coverage supervision of bidding activities before, during and after the event. Relying on the information management system, it tracks procurement execution and material flow in real time and handles potential risks in a timely manner. Meanwhile, it strengthens compliance training for employees to foster a strong sense of compliance, and establishes a risk early warning mechanism to identify and proactively prevent various potential risks in advance.

Three-level Management System for Procurement and Supply Chain Management of CHALIECO

Company level	Issue systems including CHALIECO's *Detailed Implementation Rules for Bidding Management, Detailed Rules for the Implementation of Engineering Project Procurement Management (Trial), Guidelines for Dynamic Management of Construction Contractors (Trial), Standardized Project Management Manual, Implementation Plan for Material Procurement of Engineering Projects* (Centralized Procurement Plan), *Optimization Plan for the Management of "Two Suppliers", Procurement Management Manual*, covering key links such as procurement planning, implementation management, supplier management and centralized procurement management
Enterprise level	Formulate procurement administrative measures, inventory management measures, etc.
Project level	Improve the management system compilation, project implementation planning and management plan of the Project according to the actual situation.

Strategy

CHALIECO has built a multi-department linked risk and internal control management system for material procurement, realizing whole-process control of risk information, accurately identifying procurement risks and formulating response strategies. It optimizes the overall layout of the supply chain, promotes the diversification of resources, products and technology supply, and effectively reduces the risk of supply restrictions. It deepens technical collaboration and joint research with suppliers, reduces external dependence through independent R&D, and enhances the discourse power of the supply chain. At the same time, it promotes in-depth integration of industry, university and research, and jointly conducts research on key technology substitution with universities and research institutions, providing solid technical support for supply chain continuity.

Risk	Description	Time frame[9]	Impact degree[10]	Mitigation measures
Supply interruption risk	The supply of raw materials is interrupted due to natural disasters, epidemics and other emergencies, affecting the production plan.	Short term	Company level	1. Establish a diversified supplier system to reduce dependence on single suppliers. 2. Establish a risk early warning mechanism to monitor the operation status of suppliers in real time.
Capital liquidity risk	The tight capital chain of suppliers may delay the delivery of raw materials, affecting regional production and operation.	Short term	Provincial level	1. Innovate supply chain financial tools (such as supply chain factoring and bills) to relieve suppliers' financial pressure. 2. Cooperate with financial institutions to provide multi-channel financial support.
Partnership risk	Cooperation issues with key suppliers or customers can have a significant impact on overall supply chain stability.	Medium term	Company level	1. Establish a risk sharing mechanism with suppliers and customers to form close cooperation. 2. Strengthen communication and collaboration to enhance the transparency of cooperation.
Operational efficiency risk	Poor coordination may lead to reduced operational efficiency and affect regional business development.	Medium term	Provincial level	1. Promote digital supply chain management to improve operational efficiency. 2. Optimize logistics and inventory management to reduce operating costs. 3. Strengthen employee training and improve the implementation efficiency of all links in the supply chain.

[9]Short term refers to within 1 year after the end of sustainability information reporting period, (including 1 year); medium term refers to 1 to 5 years after the end of sustainability information reporting period, (including 5 years); and long term refers to more than 5 years after the end of sustainability information reporting period.

[10]Group level: It has a significant impact on the overall group operation; Provincial level: It has a great impact on regional or provincial business; prefecture-level: It has a certain impact on local business.



Impact, risk and opportunity management

CHALIECO strictly implements Chinalco's *Supply Chain Management System, Procurement Administrative Measures, Bidding Management Measures (Trial)* and the Company's internal procurement and bidding management systems. It builds a cross-departmental collaborative risk internal control management model, accurately judges procurement risks through systematic risk identification and assessment, formulates scientific prevention and control strategies, strengthens whole-process control of the supply chain, effectively prevents various supply chain risks, and continuously improves supply chain resilience and core competitiveness of the enterprise.

In accordance with the management requirements for two types of suppliers and relevant instructions from Chinalco, CHALIECO continued to deepen the optimization of resources for the two types of suppliers in 2025. Starting from April, the company reduced the number of existing suppliers through channels including enterprise recommendation, open solicitation, and introduction from central and state-owned enterprises, and eliminated suppliers involved in litigation disputes, malicious wage claims, or failing to meet evaluation standards. Meanwhile, it implemented upgraded and unified management for supplier access in its affiliated enterprises, built a full-level resource database for the two types of suppliers in a coordinated manner and systematically entered core data, established a quantitative scoring model and a three-level assessment mechanism (monthly, quarterly, and annual), and formed a three-level management and control system of "company – affiliated enterprises – project departments". Qualification review and performance evaluation were conducted every six months, and the supplier database was dynamically adjusted to eliminate unqualified entities and introduce high-quality resources, so as to achieve transparent procurement, cost reduction and efficiency improvement, and enhanced performance capacity.

Number of suppliers in 2025

Total number is
813

20 in Northeast China	**88** in North China	**35** in South China	**195** in Central China
216 in East China	**146** in Southwest China	**82** in Northwest China	**31** overseas



The Company has established a whole-process management system covering supplier access, evaluation and withdrawal, and continuously improves the comprehensive supplier evaluation system. It conducts all-round dynamic evaluation of suppliers from multiple dimensions such as quality, delivery, cost and service, selects high-quality suppliers to establish long-term and stable strategic cooperative relations, and consolidates the foundation for sustainable development of the supply chain.

Whole-process Management of Suppliers and Contractors

Access

- Build a three-level "company-enterprise-project department" management and control system for "two suppliers" (suppliers and contractors), clarify the responsibilities of each level in the access link of "two suppliers", and strictly control access quality at all levels
- Build a unified "two suppliers" resource database to systematically record core data such as basic information, qualification documents, performance and assessment results of "two suppliers"

Evaluation

- Establish a quantitative scoring model covering basic qualifications, performance capabilities and financial health, build a multi-level, multi-dimensional and whole-process unified assessment and evaluation system, and supportingly establish a monthly, quarterly and annual regular assessment mechanism
- Implement hierarchical management of "two suppliers" by Grade A (Strategic), Grade B (Important), Grade C (General) and Grade D (Temporary), and clarify the ratio requirements for each grade

Withdrawal

- Conduct qualification review and performance capability evaluation every six months, eliminate unqualified units according to evaluation results, and introduce high-quality new resources
- Ensure that the dynamic update rate of the "two suppliers" database is not less than 10%, so that the resources in the database are always up-to-date and adapt to market changes



Intensive management of procurement

- Deepen intensive procurement management and control, implement upgraded unified management of supplier access for affiliated enterprises, and CHALIECO coordinates the access review and standardized management of suppliers at all levels
- Optimize the whole process of bidding and procurement, streamline approval links and improve operational efficiency, efficiently compressing the bidding cycle to about 15 days
- The intensive procurement model gives full play to the scale effect. In 2025, the Company's centralized procurement rate reached 89.74%

Supply chain sustainability construction

- Fully implement green supply chain management, optimize procurement strategies, improve the upstream and downstream collaborative development mechanism, actively promote the large-scale application of environmentally friendly materials, and practice green and low-carbon development concept from the procurement source
- Deepen collaborative innovation among industry, university, research and supply, jointly conduct technological R&D with research institutes, universities and core suppliers, focus on key technological breakthroughs and product iteration and upgrading, and drive high-quality development of the supply chain



In June 2025, 38 enterprises at all levels engaged in CHALIECO's procurement business were launched and operated on the "LVALUE 2.0" platform



In July 2025, CHALIECO exhibited cutting-edge technological achievements at the 3rd China International Supply Chain Promotion Expo

Indicators and targets

2025 indicators	Target
Number of supplier social responsibility / ESG training sessions: **297**; Number of suppliers whose cooperation was suspended due to non-compliance with social responsibility: **35**	Strengthen the social responsibility and ESG concept of suppliers, communicate and share regularly to shape a responsible supply chain

To protect staff interests

Promoting employee growth

Offering staff caring

Build a solid compliance bottom line



We respond to SDGs:



05

Responsibility for Employees

Building Dreams Together, Nurturing Talents with Fertile Ground

CHALIECO has always placed employee development and well-being in an important position, protecting the legitimate rights and interests of employees in an all-round way. It builds a diversified growth platform, improves the training and career promotion system, and helps employees enhance personal value. It carefully cares for employees' daily life, pays attention to physical and mental health and living needs. It strictly grasps work safety and builds a solid line of defense for work safety.

Protecting Staff Interests

(*Issues of financial materiality: employee)

Governance

CHALIECO has established a clear and hierarchical employee management governance structure. The overall employee management strategy is reviewed and decided by the Board of Directors, and organized and implemented by the management team with the General Manager as the core. The Company has set up a Remuneration Committee and a Social Responsibility Work Committee as special decision-making and supervision institutions. The Human Resources Department, as the core functional department for employee management, is responsible for remuneration and welfare, protection of labor rights and interests, employee training and career promotion, etc. All management measures are transmitted hierarchically and cover all employees from top to bottom.

Strategy

Risk	Risk description	Time frame[11]	Mitigation measures
Human resource risks	The establishment of a market-oriented employee exit and bottom-ranking exit mechanism, optimization of organizational structure and personnel, and establishment of a human resources training and exchange center may have potential risks of labor disputes during implementation.	Short term	With institutional reform and optimization as well as standardized and systematic construction, the risk shows a downward trend.

Impact, risk and opportunity management

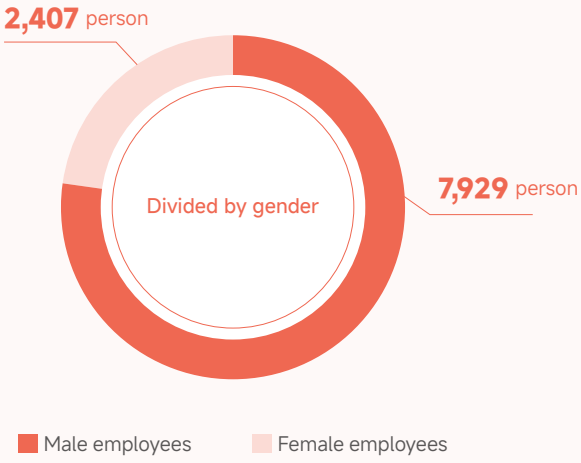
Protection of rights and interests

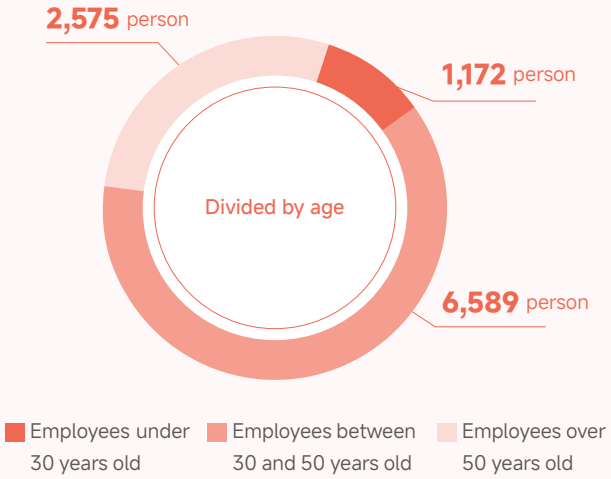
CHALIECO strictly abides by laws and regulations such as the *Labor Law of the People's Republic of China and the Labor Contract Law of the People's Republic of China*, and implements the *Administrative Measures on Employee Recruitment of China Aluminum International Engineering Corporation Limited.* It prohibits the employment of underage employees, fully respects differences among employees in nationality, race, gender, age, religious belief, etc., and eliminates all forms of employment discrimination. During the reporting period, the Company had no violations such as the use of child labor or forced labor.

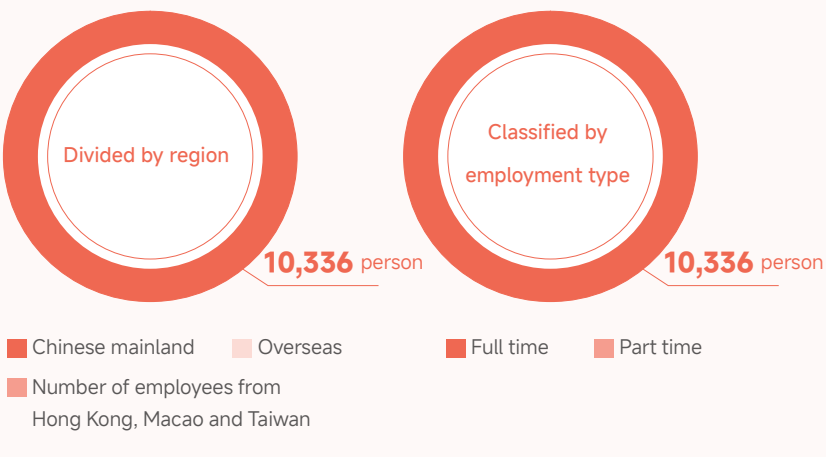
[11]Short term refers to within 1 year after the end of ESG reporting period (including 1 year); medium term refers to 1 to 5 years (including 5 vyears) after the end of ESG reporting period; long term refers to more than 5 years after the end of ESG reporting period.

Employee composition: by gender, employment type, age group and region (2025)

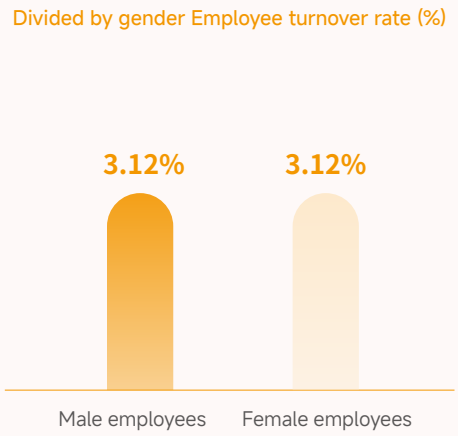
Number of employees

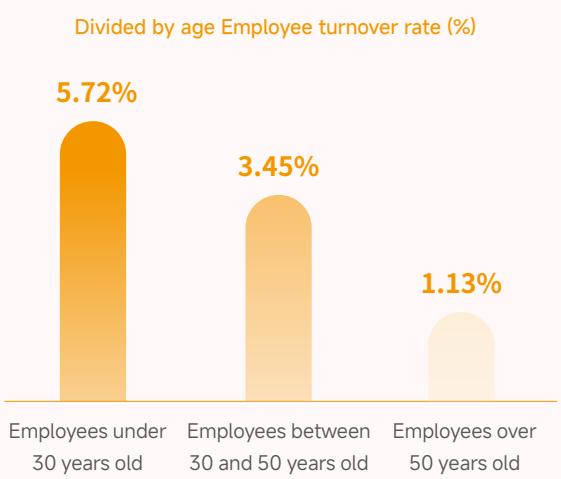






Employee turnover rate







Remuneration and benefits

CHALIECO strictly follows the principle of "ensuring basic needs, controlling total amount, retaining margin, allowing adjustment and reduction". It strengthens the control of total wages and clarifies the orientation of wage distribution. It improves the salary management system, revises the measures for total wage management, formulates overseas salary management measures, and formulates the measures for performance appraisal and salary payment of the headquarters. It continues to promote the implementation of medium- and long-term incentives and special incentives, strengthens the protection of wage payment for migrant workers, and continuously builds a scientific and sound salary incentive system adaptable to development. Meanwhile, the Company pays "five social insurances and one housing fund" in full for employees, and provides supporting high-quality subsidies and holiday welfare guarantees.

Democratic management

CHALIECO actively smoothes democratic communication channels, solidly promotes the construction of democratic management, strictly implements the system of workers' congresses, fully listens to and collects rational suggestions from employees, and effectively protects employees' rights to know, participate and supervise.



Employees' congress convened by CHALIECO

Indicators and targets

2025 indicators	Targets
Labor contract signing rate **100%**; average paid annual leave per capita **11.5** days	Labor contract signing rate **100%**; average paid leave per employee of **11** days or more

Promoting Employee Growth

Employee training

CHALIECO has strictly implemented the comprehensive training implementation plan and annual key training programs, built a multi-dimensional training system and diversified training formats, and fully utilized internal training resources. The Company has launched a total of 23 sessions of the "CHALIECO Lecture Hall", covering policy and system interpretation, technological innovation, risk prevention and control, and other fields, with lectures delivered by industry experts and internal professionals, fostering a company-wide learning atmosphere. The Company has carried out tiered and categorized training by launching seven special programs, namely the Jingying Program, Xingyao Program, Taishan Program, Zhulu Program, and Shenlan Program. More than 600 person-times participated in special off-site training for business units, and over 1,300 person-times took part in intensive full-time internal training, which significantly improved the performance capabilities of cadres and employees. It has expanded online learning channels by launching popular courses including official document writing, compliant operation, marketing, and project management through cloud classrooms and online training platforms. Employees are encouraged to improve themselves during fragmented time and apply what they have learned to practice, thus continuously enhancing the coverage and effectiveness of training.

Employee training: statistics by gender and employee type (2025)

Male employee training
86.48%

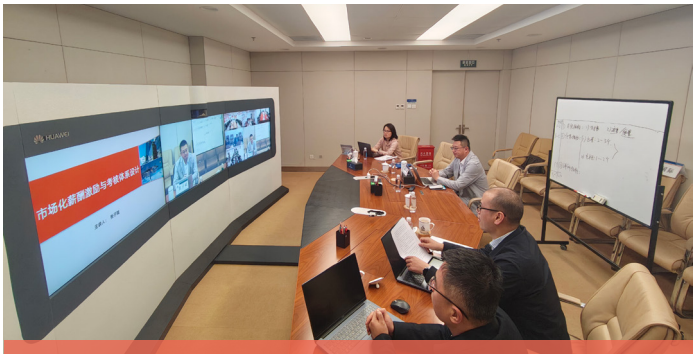
Female employee training
87.16%

Senior management
100%

Middle management
100%

Grassroots management
100%

Operational execution
81.17%



Special training on human resources business, 2025



The 2nd training course on comprehensive improvement of project management quality, 2025

Optimizing promotion channels

Centering on innovating the talent working mechanism, CHALIECO systematically constructs six talent echelons, and promotes talent evaluation, employment and training by levels and categories. Through "top-level design + hierarchical control + responsibility compaction", the Company establishes a closed-loop management mechanism of "task responsibility statement", clarifies the boundary of rights and responsibilities and assessment nodes, and promotes the deep integration of the talent system and business development.

Building a tiered talent pool	The Company has established a "Core + Backbone" Talent Pool and a Scientific and Technological Talent Pool for Business Units, and implemented classified and dynamic management: core talents: 104 persons (accounting for 1%); backbone talents: 650 persons (accounting for 6.28%).
Improving the talent evaluation and incentive mechanism	The Company issued policies including the *Measures for the Technical Position Setup and Salary Incentive of Scientific and Technological Talents*. In 2025, a total of 1,499 persons had been evaluated and appointed as Grade-V Engineers.
Enriching the professional talent track	The Company has 121 scientific and technological leading talents and young scientific and technological talents, and 582 personnel in the Grade-IV marketing and project manager track. A "One Person, One Plan" development program has been implemented for all of the above talents.
Enriching the professional talent track	During the year, the Company added 6 chief engineers of the Group. It has 12 in-service engineers under the "Three Firsts & One Special" program, 19 persons selected into the National Mineral Resources Expert Pool, and 1 person entitled to the Special Government Allowance of the State Council. Focusing on the innovation-driven strategy, the Company introduced 8 doctors during the year.



Offering Staff Caring

CHALIECO regularly carries out employee care work to effectively solve difficulties for employees in need. It pays attention to the balance between employees' work and life, relieves work pressure, and helps build harmonious and stable labor relations.

Supporting employees in difficulties

In 2025, more than

142

urgent difficulties and problems of employees were solved

209

person-times of employees in need were supported

CHALIECO earnestly cares for employees, solidly carries out the practical activity of "Serving the People in Practice", solves urgent difficulties and problems of employees, and distributes holiday benefits to employees. It does a good job in support and condolence, carries out condolence for marriage, childbirth and illness, and distributes condolence funds and materials to employees, continuously improving employees' sense of gain and happiness. In 2025, more than 142 urgent difficulties and problems of employees were solved, and 209 person-times of employees in need were supported.

Work-life balance

CHALIECO continuously enriches employees' cultural life, organizes Spring Festival tea parties, air volleyball competitions, men's basketball matches, themed activities for the March 8th International Women's Day, etc., effectively enhancing interaction and communication among employees and practically helping employees balance work and life.



Men's Basketball Match of the 2nd Staff Sports Meeting of CHALIECO



Themed Activity for the March 8th International Women's Day held by Jiuye Construction



The 4th "Qiushi Cup" Air Volleyball Competition of CHALIECO



2025 Spring Festival Tea Party of CHALIECO

Building a Solid Compliance Bottom Line

(*Issues of financial materiality: work safety)

Governance

CHALIECO has established an Occupational Health, Safety and Environmental Committee with a dual-director system, with the Secretary of the Party Committee, Chairman and General Manager serving as directors together, and implements the *Work Rules of the Occupational Health, Safety and Environmental Committee.* The Company headquarters and 10 Chinalco B1 enterprises have full-time Chief Safety Officers. The Company and its affiliated enterprises have set up HSE departments responsible for safety supervision and management. In terms of staffing, the HSE Department of the Company headquarters currently has 10 employees, including 4 registered safety engineers and 5 Grade 1 constructors. Each affiliated enterprise is equipped with 563 full-time safety management personnel, including 107 registered safety engineers.

the HSE Department of the Company headquarters currently has **10** employees

including **4** egistered safety engineers

5 Grade 1 constructors

Each affiliated enterprise is equipped with **563** full-time safety management personnel

including **107** registered safety engineers.

Strategy

Risk	Risk description	Time frame[12]	Impact degree[13]	Mitigation measures
Work safety of construction business	Risks are mainly concentrated in falls from height, object strikes, collapses, lifting injuries and mechanical injuries, which may cause casualties, shutdown losses and negative public opinion impacts.	Medium and long-term	Prefecture level	Formulate and implement the *Control Procedure for Hazard Source Identification, Risk Assessment and Determination of Risk Control Measures and Regulations on Safety Risk Hierarchical Control and Accident Hidden Danger Investigation and Treatment.* The Company has mainly adopted the direct judgment method, LEC method, SEP method and job safety analysis (JSA method) to carry out hazard source identification. The significant hazard sources shall be subjected to hierarchical control, with strict adherence to the "source accountability system" for systematic management.

[12]Short term refers to within 1 year after the end of ESG reporting period (including 1 year); medium term refers to 1 to 5 years (including 5 vyears) after the end of ESG reporting period; long term refers to more than 5 years after the end of ESG reporting period.

[13]Group level: It has a significant impact on the overall group operation; Provincial level: It has a great impact on regional or provincial business; prefecture-level: It has a certain impact on local business.

Impact, risk and opportunity management

CHALIECO continuously improves the quality and efficiency of production safety management by improving safety management systems, optimizing safety management systems, strengthening safety inspections, and strictly enforcing safety penalties and accountability. It strictly aligns with the Group's *Safety Risk Management Standardization System* and systematically strengthens the construction of corporate safety culture. At the same time, it regularly organizes employees to conduct routine physical examinations and occupational health examinations, and carries out standardized management of health files.

Strengthening safety management

CHALIECO strictly abides by relevant laws and regulations such as the *Law of the People's Republic of China on the Prevention and Control of Occupational Diseases and the Work Safety Law of the People's Republic of China.* It comprehensively promotes the three-year action for fundamental improvement of work safety, formulates and implements the *Three-Year Action Plan for Addressing the Foundational Causes of Work Safety (2024-2026)*, continuously improves the safety and environmental protection management system, implements the three-level safety control model of "company - affiliated enterprises - project departments", increases safety control and investigation and management of hidden dangers, and regularly carries out safety and environmental protection inspections to support work safety.

Improving safety management systems	There are 16 current safety management systems. 7 new and revised safety management systems including the *Measures for the Supervision and Administration of Occupational Health, Safety and Environmental Protection* and the *Regulations on the Safety and Environmental Protection Management of Overseas Projects* have been formulated.
Promoting QHSE system	Completed internal audit of 12 functional departments of the company headquarters and the Indonesia Alumina Project, and accepted and passed the external audit of China Quality Mark Certification Group Co., Ltd.
Promoting CARMS and CAE systems	Participated in the revision of the Group's CARMS and CAE systems, organized all affiliated enterprises to sort out and self-evaluate the two systems, and set up a system evaluation team to conduct system evaluation for all affiliated enterprises.
Carrying out safety inspections	Implements the *Measures for the Supervision and Administration of Occupational Health, Safety and Environmental Protection and the Measures for the Accountability and Penalty of Safety and Environmental Protection Inspections,* and establishes a regular safety inspection and accountability mechanism. In 2025, inspections were completed for 177 projects, 3 production workshops and 17 key areas.



CHALIECO held the 2025 Occupational Health, Safety and Environmental Protection Work Conference

Safety culture construction

In 2025, the total hours of safety education and training reached

423,476

hours

the safety training coverage rate was

100%

CHALIECO actively strengthens the construction of safety culture, takes activities such as the Work Safety Month as the starting point, and continuously promotes the implementation of the enterprise's "1+9", "3132" and other safety cultures. It organizes and implements special examinations on work safety laws, regulations and systems in the construction engineering field, carries out performance improvement training for safety management personnel, and completes 2 sessions of special training on the Group's CARMS, CAE systems and emergency management, comprehensively consolidating the foundation of professional talents for work safety. In 2025, the total hours of safety education and training reached 423,476 hours, and the safety training coverage rate was 100%.

2025 "Work Safety Month" Activity Kick-off Meeting





CHALIECO carried out emergency drills for fire evacuation and escape

Safeguarding occupational health

CHALIECO conducted over

60

lectures on employee health services

eaching over

2,100

employees

CHALIECO attaches great importance to employees' occupational health management, continuously promotes the prevention and treatment of occupational diseases, and effectively builds a solid line of defense for employees' occupational health and safety. Focusing on themes such as "Caring for Workers' Mental Health", it actively carries out publicity activities on occupational disease prevention, strengthens employees' awareness of occupational health protection, and guarantees the occupational health of the majority of workers. In 2025, CHALIECO conducted over 60 lectures on employee health services, reaching over 2,100 employees and maintaining a record of zero new occupational disease cases.



CINF organized the Occupational Disease Prevention and Control Publicity Week



Jiuye Construction organized the safety knowledge lecture "Raising First-Aid Awareness, Guarding Life and Health"

Indicators and targets

2025 indicators	Targets
3 general work-related fatal liability accident occurred	Strictly control work safety casualty accidents (minor, serious and fatal accidents)

Supporting Rural Revitalization

Enthusiastic about Public Welfare and Charity



We respond to SDGs:





06

Responsibility for Community

Caring for People's Livelihood, Repaying Society with Kindness

CHALIECO actively fulfills public responsibility, promotes business upgrading and consolidates the foundation of people's livelihood through rural revitalization, conveys the warmth of kindness and promotes harmonious development through public welfare, and continuously links enterprise development with people's well-being with practical actions, writing a responsible answer.

Supporting Rural Revitalization

CHALIECO thoroughly implements the important instructions of General Secretary Xi Jinping on the work related to agriculture, rural areas and farmers, and solidly promotes consumption assistance and industrial revitalization with the responsibility of a central enterprise. It deeply focuses on the development needs of the assisted areas, drives farmers to increase income through production and marketing docking, industrial cultivation and other measures, and practices the rural revitalization strategy with practical actions. In 2025, we allocated RMB 4.2225 million to support rural revitalization, benefiting a total of 25,000 people.

Industrial revitalization

Fengqiao-style villages and residences

CHALIECO takes industrial revitalization as the core starting point of rural revitalization. Through the "enterprise + cooperative + farmer" model, it opens up the production and marketing chain of agricultural products, injects technology and capital, and cultivates rural characteristic brands. In 2025, Jinkeng Village, which is paired and assisted by Guiyang Engineering Corporation, was awarded the title of the first batch of "Fengqiao-style villages and residences" in Qiandongnan Prefecture, Guizhou Province.

Case

CHALIECO conducted research and held a forum in Jinkeng Village, Niudachang Town

On August 27, 2025, Liu Dongjun, Deputy Secretary of the Party Committee and Chairman of the Labor Union of CHALIECO, and his delegation went deep into Jinkeng Village, Niudachang Town, to conduct research and guidance on rural revitalization and held a forum. It was emphasized at the meeting that efforts should be focused on characteristic industries such as high-quality rice, flue-cured tobacco and lily to continuously strengthen and expand them, and grow the collective economy of the village.





CHALIECO conducted research and held a forum in Jinkeng Village, Niudachang Town

Consumption revitalization

CHALIECO built a production and marketing docking platform, promoted rural characteristic products, guided consumption forces to sink, drove farmers to increase income with market demand, and let good rural products go out of the mountains and into thousands of households. In 2025, it directly purchased agricultural and sideline products worth RMB 3.2628 million from Jingyuan County, Gansu Province, which is paired and assisted by the Group, directly purchased agricultural and sideline products worth RMB 821,800 from other assisted areas.

Enthusiastic about Public Welfare and Charity

CHALIECO deeply engages in public welfare and charity, and practices great love and responsibility with practical actions. It actively promotes the Lei Feng Spirit and carries out volunteer services, organizes afforestation to protect green waters and green mountains, devotes itself to material donation to convey warm strength, and continuously injects warm power into social development with small acts of kindness.

Hours of volunteer services

881.4

Hour



Performance of Volunteer Services

Number of youth voluntary organizations

27

Nos.



“Lei Feng Spirit, Walk with Love” Donation Activity



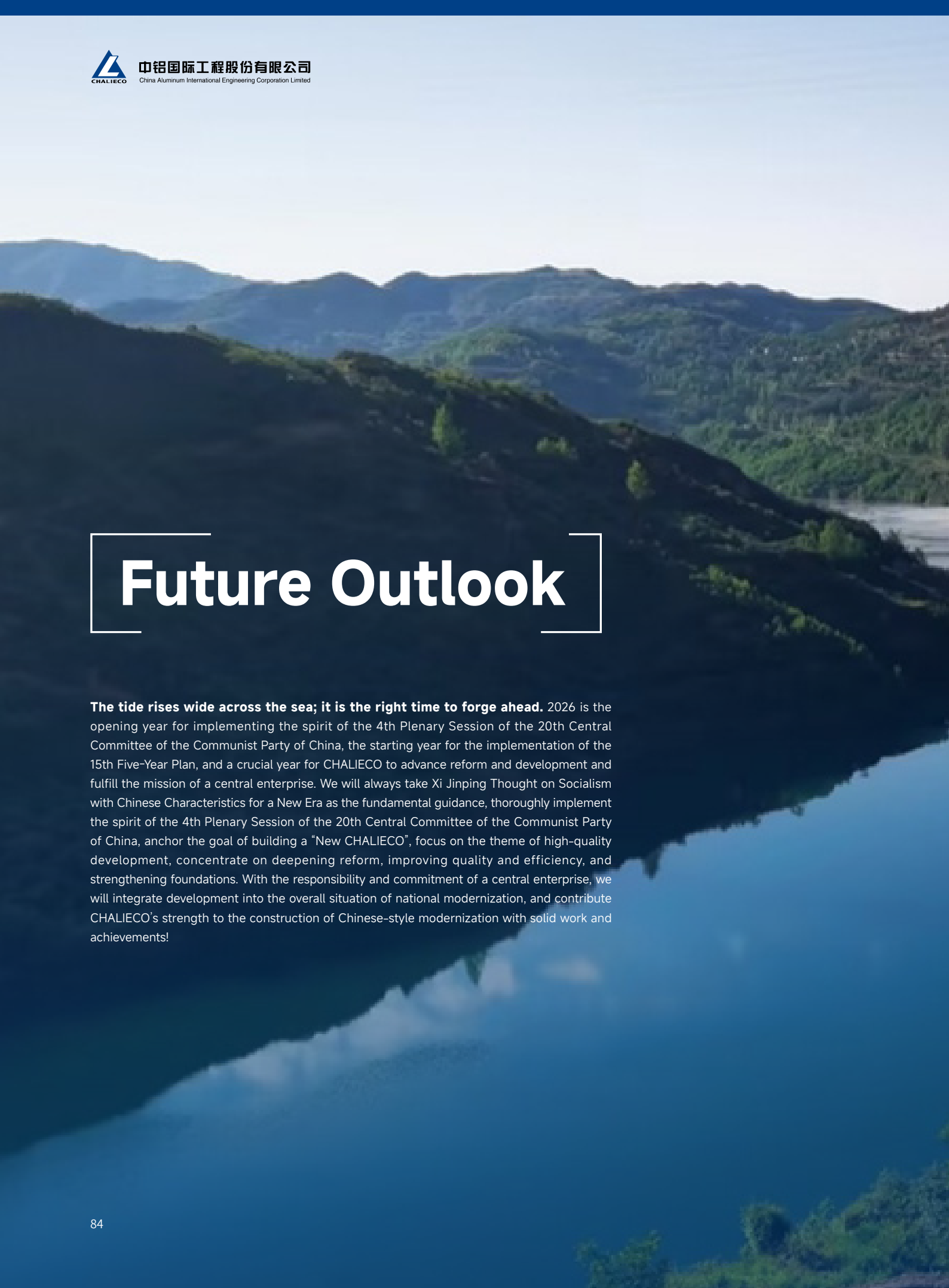
“Warm Spring in March, Learn from Lei Feng, Weed and Protect Seedlings, Foster New Trends” Themed Activity



“Cherish the Martyrs to Build Loyalty, Inherit Red Spirit to Foster New Trends” Tomb-Sweeping Activity



Arbor Day Themed Activity



Future Outlook

The tide rises wide across the sea; it is the right time to forge ahead. 2026 is the opening year for implementing the spirit of the 4th Plenary Session of the 20th Central Committee of the Communist Party of China, the starting year for the implementation of the 15th Five-Year Plan, and a crucial year for CHALIECO to advance reform and development and fulfill the mission of a central enterprise. We will always take Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era as the fundamental guidance, thoroughly implement the spirit of the 4th Plenary Session of the 20th Central Committee of the Communist Party of China, anchor the goal of building a "New CHALIECO", focus on the theme of high-quality development, concentrate on deepening reform, improving quality and efficiency, and strengthening foundations. With the responsibility and commitment of a central enterprise, we will integrate development into the overall situation of national modernization, and contribute CHALIECO's strength to the construction of Chinese-style modernization with solid work and achievements!



Appendix

Key Performance

Indicator	2023	2024	2025
Economic responsibility			
Total assets (RMB 10,000)	4,094,380.30	4,115,652.82	4,054,649.70
Net assets (RMB 10,000)	725,450.00	884,506.61	914,114.10
Operating revenue (RMB 10,000)	2,233,717.10	2,400,325.45	2,305,980.60
Total tax payment (RMB 10,000)	79,277.64	62,871.86	65,928.65
Investments in R&D (RMB 10,000)	94,330.90	96,103.15	95,938.40
Number of R&D employees (persons)	2,164	2,352	2,414
Cumulative number of valid patents (nos.)	3,214	3,324	3,712
Including: Patents for inventions (nos.)	1,385	1,473	1,396
Number of patent applications accepted (nos.)	647	716	611
Including: Patents for inventions (nos.)	369	361	345
Number of newly added authorized patents (nos.)	368	360	370
Including: Patents for inventions (nos.)	109	134	135
Legal review rate of corporate rules and regulations (%)	100	100	100
Legal review rate of corporate business contracts (%)	100	100	100
Legal review rate of important corporate business decisions (%)	100	100	100
Number of legal compliance training sessions (time)	20	25	27
Number of hours for legal compliance training (hour)	38	42	46
Number of people receiving training on legal compliance (person-time)	1,404	1,862	1,889
Number of board meetings held (time)	9	8	6
Number of general shareholders' meetings held (time)	3	2	1
Number of suppliers (nos.)[14]	2,488	2,378	813

[14] The reason for the sharp decrease in the total number of suppliers in 2025 is detailed in Chapter IV "Responsibility for Partners | Working Collaboratively and Gathering Strength with Sincerity" - Strengthening Supply Management.

Continued

Indicator	2023	2024	2025
Number of potential suppliers rejected for non-compliance of social responsibility (nos.)	6	0	0
Number of suppliers reviewed during the reporting period (nos.)	2,488	2,378	813
Number of suppliers suspended for non-compliance of social responsibility (nos.)	0	23	35
Number of CSR/ESG training courses for suppliers (nos.)	0	71	297
Complaint resolution rate (%)	100	100	100
Social responsibility			
Number of employees (person)	11,456	10,853	10,336
Number of newly recruited employees during the reporting period (person)	137	127	93
Coverage rate of physical examination (%)	100	100	100
Coverage of health records (%)	100	100	100
Signing rate of labor contracts (%)	100	100	100
Coverage of labor contracts (%)	100	100	100
Coverage of social insurance (%)	100	100	100
Number of employee complaints filed, handled and solved through complaint mechanism (nos.)	0	0	0
Number of female managers (person)	1,260	1,192	1,042
Proportion of female managers in middle management (%)	6.12	6.15	6.03
Proportion of ethnic minority employees (%)	4.48	4.72	5.20
Localized employment rate (%)	85.43	85.00	85.23
Days of paid leaves per capita (day)	11	11	11.5
Investments in employee training (RMB 10,000)	1,222.60	1,461.43	1,573.88
Number of participants of employee training (person-time)	52,349	41,526	50,749
Number of hours for employee training (hour)	377,686.45	542,529.00	744,492.50
OY growth of employee compensation (%)	12.00	3.35	9.01
Number of people with disabilities employed (person)	61	60	58
Investment in supporting workers in need (RMB 10,000)	40.87	28.85	31.99

Continued

Indicator	2023	2024	2025
Number of work safety accidents (time)	1	2	8
Working days lost due to work-related injuries (day) [15]	42,000	176	20,391
Number of work-related deaths (person)	7	0	3
Proportion of work-related deaths (%)	0.061	0	0.013
Total investment in safety (RMB 10,000)	-	28,201.61	23,369.98
Number of participants in safety education and training (person-time)	122,276	124,940	105,869
Number of hours for safety education and training (hour)	427,966	499,760	423,476
Coverage of safety training (%)	100	100	100
Reception rate of visits of employees and other stakeholders (%)	100	100	100
Handing rate of letters and mails (%)	100	100	100
Total charitable donations (RMB 10,000)	3.9563	1.62	10.40
Environmental responsibility			
Investments in environmental protection (RMB 10,000)	3,532.17	3,175.17	3,035.46
Total energy consumption (tce)	80,794	42,099	23,924
Energy consumption intensity per RMB10,000 of operating revenue (tce/RMB10,000)	0.0378	0.0192	0.0104
Fuel oil consumption (liter)	61,043,063.32	29,625,891.30	14,101,326.70
Gasoline consumption (liter)	38,885,310.92	12,327,323.56	2,391,435.98
Diesel consumption (liter)	22,157,752.40	17,298,567.74	11,709,890.72
Natural gas consumption (m^3)	195,928	274,847	173,889
Electricity consumption (10,000 kWh)	11,515.03	9,400.65	7,521.92
Total water consumption (ton)	766,595	589,761	647,206
Water consumption intensity (ton/RMB10,000)	0.34	0.25	0.28
Discharge of non-hazardous waste (ton) (kitchen waste, construction waste, etc.)	11,598.60	6,323	7,192

[15] In 2025, CHALIECO recorded 3 work-related fatal accidents, resulting in 3 deaths. In accordance with the stipulation in The Classification for Casualty Accidents of Enterprise Staff and Workers (GB 6411-86) that "a death or permanent total disability shall be counted as 6,000 working days", the total lost working days amounted to 18,000 days. As the company strengthened the statistics of recordable incidents such as minor injuries and medical treatment in 2025, another 5 accidents involving minor and serious injuries were counted according to the above national standard, with a total of 2,391 lost working days. Therefore, the 8 work safety accidents in 2025 caused a total of 20,391 lost working days.

Continued

Indicator	2023	2024	2025
Non-hazardous waste discharge intensity per RMB10,000 of operating revenue (ton/RMB10,000)	0.0052	0.0026	0.0031
Discharge of hazardous waste (ton) (toner cartridges, damaged light tubes, etc.)	29.32	29.32	15.61
Hazardous waste discharge intensity per RMB10,000 of operating revenue (ton/RMB10,000)	1.31×10^{-5}	5.04×10^{-6}	6.77×10^{-6}
Number of participants in environmental protection training (person-time)	10,890	14,854	8,692
Coverage of environmental protection training (%)	34	39	26.2
Energy consumption per RMB 10,000 output value (tce/RMB 10,000 output value)	0.0362	0.0152	0.0099
Fresh water consumption (ton)	755,194	589,761	647,206
Amounted of reclaimed water used (ton)	11,401	0	0
Industrial solid waste reuse rate (%)	100	100	100
Compliance rate of pollutant emissions (%)	100	100	100
Compliance rate of solid waste disposal (%)	100	100	100
Compliance rate of major pollutant emissions (%)	100	100	100
Electricity used in office buildings (10,000 kWh)	7,330.60	6,365.15	1,308.36
Water used in office buildings (10,000 tons)	45.84	32.66	28.37

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Report Introduction		Reporting scope	Articles 2, 5, 6	P1.1, P1.2
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ESG Governance Statement from the Board of Directors		Governance architecture	Articles 11, 12	G1.1.1、G1.1.2、G1.1.4、G1.1.5、G1.1.6、G1.1.7、G1.1.9
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Sustainable Development Management	Sustainability Management System	Governance architecture	Articles 52, 53	G1.1.1、G1.1.2、G1.1.4
	Sustainable Development Actions	Overall Policy		-
	Identification of Dual Materiality Issues	Reporting Principles - Materiality		G1.1.9
	Communication with stakeholders			G1.3.1、G1.3.2
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CSR Topic	CSR Topic I	-	-	S1.2.1、S1.2.6
	CSR Topic II	-	-	-
Economic Responsibility | Scientific Governance and Stable Operation Through Hard Work	Improve corporate governance	B7, B7.1-7.3	Article 55	G2.2.1, G2.2.2, G2.2.8
	Compliant operation			
	Strengthen the risk prevention and control			
Responsibility for Customers | Focusing on the Main Business and Building the Brand with Quality	Implementing quality assurance	B6、B6.4	Article 47	S3.3.1、S3.3.2、S3.3.3
	Providing Excellent Services	B6、B6.2、B6.5	Article 47	S3.3.1、S3.3.3、S3.3.6
	Deepening Scientific and Technological Innovation	B6、B6.3	Article 42	S2.2.1、S2.2.2、S2.2.3、S2.2.4、S2.2.6、S2.2.9、S2.2.10、S2.2.11、S2.2.12、S2.2.13
Environmental Responsibility | Following the Green Path and Shaping the Ecology with Low Carbon	Implementing "Dual-carbon" Actions	Part D: Climate-related Disclosures	Articles 21 to 28	E1.1.1、E1.1.2、E1.1.3
	Improving Green Management	A1	Article 33	E2.4.1、E2.4.2、E2.4.3、E2.4.4
	Practicing Green Operation	A1.1、A1.3-1.6、A2.1-2.4	Articles 30, 31, 33, 35, 36, 37	E2.1.1、E2.1.2、E2.1.5、E2.1.6、E2.2.1、E2.2.3、E2.2.5、E2.2.6、E3.1.1、E3.1.5
	Advocating Green Lifestyle	A3、A3.1	Article 32	E2.3.2、E2.3.3

Contents		HKEX ESG Code[16]	SSE Guidelines[17]	CASS-ESG 6.0
Responsibility for Partners	Working Collaboratively and Gathering Strength with Sincerity	Deepening Strategic Cooperation	-	-	S3.1.1、S3.1.2、S3.1.3、S3.1.4
		Promoting industry development	-	-	
		Strengthening Supply Management	B5, B5.1-5.4	Article 45	
Responsibility for Employees	Building Dreams Together Nurturing Talents with Fertile Ground	To protect staff interests	B1、B1.1、B1.2、B4、B4.1	Article 50	S4.1.1、S4.1.3、S4.1.4、S4.1.6、S4.1.7、S4.1.9、S4.1.11、S4.1.12
		Promoting employee growth	B3、B3.1、B3.2		S4.3.3、S4.3.4、S4.3.5
		Offering staff caring	B1		-
		Build a solid compliance bottom line	B2、B2.3		S4.2.1、S4.2.2、S4.2.4、S4.2.6
Responsibility for Community	Caring for People's Livelihood Repaying Society with Kindness	Supporting Rural Revitalization	B8、B8.1、B8.2	Article 39	S1.1.2、S1.1.3、S1.1.4
		Enthusiastic about Public Welfare and Charity	B8、B8.1、B8.2	Article 40	S1.2.1、S1.2.2、S1.2.4
Future outlook			-	-	A1
Appendix		Key performance	A1.1、A1.3、A1.4、A2.1、A2.2、B2.1、B2.2、B3.1、B3.2、B8.2	Articles 6, 8	A2
		Index of Indicators	-	-	A3
		Interpretations	-	-	-
		Rating Report	-	-	A5
		Feedback	-	-	A6

[16]We comply with the "comply or explain" provision set out in Section C – Environmental, Social and Governance (ESG) Reporting Guide of the HKEX Environmental, Social and Governance Reporting Code, and provide the following explanation for the non-disclosure of Indicators A2.5 and B6.1:

①As an enterprise mainly engaged in engineering design and construction, the provisions of Indicators A2.5 and B6.1 are not applicable to the Company.

[17]Guidelines No. 14 of the Shanghai Stock Exchange (SSE) on the Application of Self-Regulation Rules for Listed Companies – Sustainability Report (Trial) of the Shanghai Stock Exchange

Interpretations

Full Name	Short name
Aluminum Corporation of China	Chinalco
Shenyang Aluminum and Magnesium Engineering and Research Institute Company Limited	SAMI
Guiyang Aluminum Magnesium Design & Research Institute Co., Ltd.	GAMI
CINF Engineering Corporation Limited	CINF
China Nonferrous Metals Processing Technology Co., Ltd.	CNPT
China Nonferrous Metal Changsha Survey and Design Institute Co., Ltd.	CKY
Kunming Prospecting Design Institute of China Nonferrous Metals Industry Co., Ltd.	CHALIECO Survey and Design Institute
Kunming Engineering & Research Institute of Nonferrous Metallurgy Co., Ltd.	KERI
China Nonferrous Metal Industrial No. 6 Metallurgy Construction Company	CHSMCC
Jiuye Construction Co., Ltd.	Jiuye Construction
China Nonferrous Metals Industry's 12th Metallurgical Construction Co., Ltd.	12MCC
CHALIECO Shandong Engineering Technology Co., Ltd.	Shandong Engineering

One-picture Guide

the 2025 Annual Environmental, Social and Governance Report of China Aluminum International Engineering Corporation Limited Rating Report

I. Rating Results



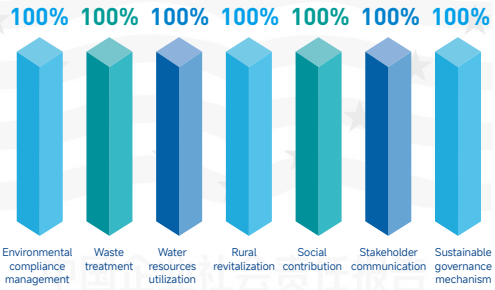
The 2025 Annual Environmental, Social and Governance Report of China Aluminum International Engineering Corporation Limited (hereinafter referred to as "the report") is rated as **five-star**, representing an outstanding corporate sustainability report.

Rating Result	Rating Illustration	Development Level
Five-star plus	★★★★★+	Model
Five-star	★★★★★	**Outstanding**
Four-and-a-half-star	★★★★☆	Leading
Four-star	★★★★	Excellent
Three-star	★★★	Good
Two-star	★★	Developing
One-star	★	Beginning

II. Highlight Performance

Process	★★★★★
Materiality	★★★★★
Integrity	★★★★☆
Balance	★★★★★
Comparability	★★★★★
Readability	★★★★★
Innovation	★★★★★

The process, materiality, balance, comparability, readability and innovation aspects of the Report all achieved a five-star rating, while its integrity achieved a four-and-a-half-star rating.



The Report systematically disclosed 81.20% of the core indicators in the civil engineering and construction industry, with the highest coverage rates of 100% for core indicators in the environmental dimension regarding environmental compliance management, waste treatment and water resources utilization; in the social dimension regarding rural revitalization and social contribution; and in the governance dimension regarding stakeholder communication and sustainable governance mechanism.



The Report disclosed the comparative data of 80 key indicators for 3 consecutive years in detail, with the most comprehensive disclosure of comparable data for 3 consecutive years in the environmental dimension regarding energy utilization, in the social dimension regarding employee rights and interests protection, and in the governance dimension regarding sustainable governance mechanism.

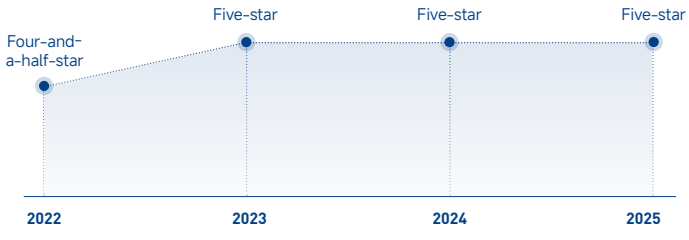
III. Improvement Suggestions

1. Add the disclosure of core indicators under issues such as anti-unfair competition, data security and customer privacy protection to further improve the integrity of the report.

IV Rating Medal

China Aluminum International Engineering Corporation Limited has participated in the report rating for 4 consecutive years, and has been awarded the Bronze Medal.

Trend of Report Ratings





Rating Report of *2025 Annual Environmental, Social and Governance Report of China Aluminum International Engineering Corporation Limited*

Upon the request of China Aluminum International Engineering Corporation Limited for the fourth consecutive year, the Chinese Expert Committee on CSR Report Rating invited experts to form a rating panel to rate *the 2025 Annual Environmental, Social and Corporate Governance Report of China Aluminum International Engineering Corporation Limited* (hereinafter referred to as *the "Report"*).

I. Rating Criteria

1. *The Corporate Sustainability Disclosure Guidelines - Basic Guidelines (Trial);*
2. *Guidelines No. 14 of the Shanghai Stock Exchange for the Self-regulation —Sustainability Report (Trial);*
3. *Guidelines for Chinese Enterprises' Sustainable Development Reports (CASS-ESG 6.0) for the Civil Engineering and Construction Industry;*
4. *Rating Standards for Corporate Social Sustainability Reporting in China (2026).*

II. Rating Analysis

Process (★★★★★)

CHALIECO established a leading group for corporate social responsibility work, with the chairman of the Company as the head. The leading group was responsible for reporting the progress of social responsibility work to superiors, conveying the guidance and management opinions of Aluminum Corporation of China on social responsibility work to subordinates, and coordinating and planning the implementation of the Company's social responsibility work. Before the launch of report preparation, a special meeting was held to explain and train on preparation requirements. CHALIECO has fully implemented the "112" social responsibility indicator system of Chinalco to meet compliance disclosure requirements, enhanced the level of sustainable development management, promoted the company's sustainable development brand image, and strengthened communication with stakeholders. The report will be presented in different languages, including Simplified Chinese, Traditional Chinese, and English. The performance in the process is outstanding.

Materiality (★★★★★)

The Report discloses key industry issues, including addressing climate change, pollutant emissions ("three wastes", noise, light pollution, etc.), construction waste management, circular economy development (land and resource protection and efficient development), green building construction, conserving ecosystems and biodiversity, product and technological innovation (smart construction), sustainable supply chains, product and service safety and quality, employee rights protection (migrant workers, temporary workers, and contract workers), occupational health and safety, sustainable governance mechanisms, and anti-commercial bribery and anti-corruption measures. The descriptions are detailed and comprehensive, with the most extensive coverage for pollutant emissions ("three wastes", noise, light pollution, etc.), product and technological innovation (smart construction), and sustainable governance mechanisms had the most pages, spanning 6 pages respectively, with outstanding materiality performance.

Integrity (★★★★☆)

The main content of the Report systematically discloses 81% of the core indicators in the civil engineering and construction industry from the perspectives of "Economic Responsibility | Scientific Governance and Stable Operation Through Hard Work", "Responsibility for Customers | Focusing on the Main Business and Building the Brand with Quality", "Environmental Responsibility | Following the Green Path and Shaping the Ecology with Low Carbon", "Responsibility for Partners | Working Collaboratively and Gathering Strength with Sincerity", "Responsibility for Employees | Building Dreams Together Nurturing Talents with Fertile Ground", and "Responsibility for Community | Caring for People's Livelihood Repaying Society with Kindness", with the highest coverage rates of 100% for core indicators in the environmental dimension regarding environmental compliance management, waste treatment and water resource utilization; in the social dimension regarding rural revitalization and social contribution; and in the governance dimension regarding stakeholder communication and sustainable governance mechanism, demonstrating leading integrity performance.

Balance (★★★★★)

The Report discloses negative data such as "general environmental emergencies and major environmental pollution and ecological damage incidents", "Class A quality incidents", "number of deaths due to work", "number of working days lost due to work-related injuries" and "employee turnover rate", and briefly describes 8 work safety accidents that occurred, with outstanding balance performance.

Comparability (★★★★★)

The Report discloses the comparative data of 80 key indicators for 3 consecutive years such as "operating revenue", "investments in R&D", "number of newly added authorized patents", "number of employees", "total investment in environmental protection", "number of environmental protection training" and "safety training coverage rate" for three consecutive years, with the most comprehensive disclosure of comparable data in the environmental dimension regarding energy utilization, in the social dimension regarding employee rights and interests protection, and in the governance dimension regarding sustainable governance mechanism (9, 16 and 8 sets, respectively). It also conducts horizontal comparisons through indicators such as "84th in the Top 225 International Design Firms with domestic ranking of 9th" and "142nd in the Top 150 Global Design Firms with domestic ranking of 20th", demonstrating outstanding comparability performance.

Readability (★★★★★)

The Report adopts an issue-based framework structure to comprehensively display CHALIECO's responsibility fulfillment concept, practice, and achievements in governing scientifically, strengthening main business, seeking green development, caring for employees, achieving win-win cooperation, and giving back to society, fully responding to the expectations and demands of stakeholders. The cover of the Report adopted an illustration style, continuing the design style of previous reports and enhancing the enterprise identification. Each chapter had an HD large picture fitting the theme on the cross-page and started with a highly general sentence. The overall style is simple and refreshing, which not only highlights the industry characteristics but also enhances the report recognizability and readability, with outstanding readability performance.

Innovation (★★★★★)

The Report opens with the topics of "Craftsmanship Cultivation - Sailing Overseas to Explore New Horizons" and "Digital and Intelligent Empowerment - Uniting for a New Journey of Construction", highlighting CHALIECO's overseas responsibility practices and digital-intelligent construction initiatives. The Report was in a novel form, which met the requirements of displaying sustainable development concepts, practices, and achievements as well as facilitating dissemination. It was beautifully arranged with both pictures and texts, full of creativity, demonstrating leading innovativeness performance.

III. Overall Rating ★★★★★

According to the assessment of the rating panel, *the 2025 Annual Environmental, Social and Governance Report of China Aluminum International Engineering Corporation Limited* (hereinafter referred to as "the report") is rated as five-star, representing an outstanding corporate sustainability report.

Rating Result	Rating Illustration	Development Level
Five-star plus	★★★★★+	Model
Five-star	**★★★★★**	**Outstanding**
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One-star	★	Beginning

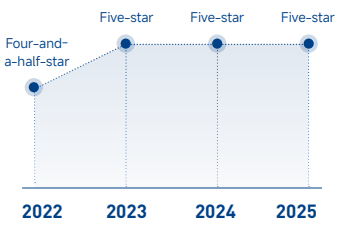
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Trend of Report Ratings





Scan the code to view the rating file

Vice Chairman of China Expert Committee on CSR Report Rating

Panel Leader

Panel Expert

Date of Issuance: March 25, 2026

Feedback

Dear readers:

Thank you very much for reading this report. In order to improve the quality and level of the ESG Report of CHALIECO, we look forward to your valuable opinions and suggestions on this report. We will carefully consider your opinions and suggestions and ensure your feedback remains confidential, protected from third party access.

1. What is your overall assessment of this report?

☐Fine ☐Good ☐General ☐Poor ☐Very poor

2. Do you think this report reflects the significant economic, social and environmental impact of CHALIECO?

☐Yes ☐No

3. What do you think of the information, data and indicators disclosed in this report in terms of clarity, accuracy and completeness?

☐Very high ☐High ☐Fair ☐Low ☐Very low

4. What do you think of the structure of this report?

☐Very reasonable ☐Reasonable ☐Fair ☐Poor ☐Very poor

5. Do you think the layout and presentation design of this report is easy to read?

☐Yes ☐No

Open-ended questions:

1. Which issues in this report do you think are the most concerned?

2. What other information do you think needs to be disclosed in this report?

3. What are your comments and suggestions on the ESG work of CHALIECO?

Please leave your personal information if available:

Name: _____ Occupation: _____

Institution: _____ Address: _____

Postal code: _____ E-mail: _____

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