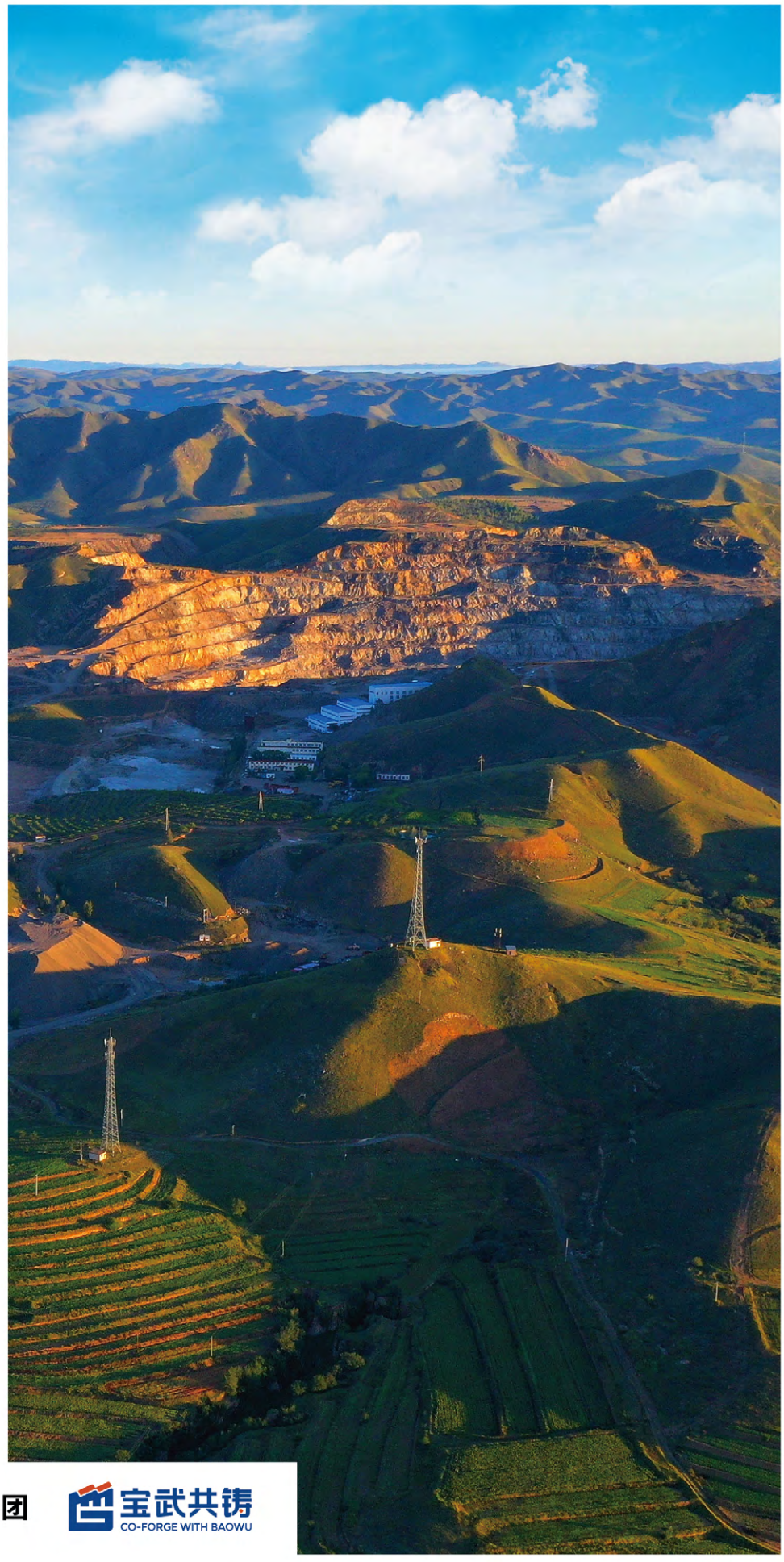
2021

中国中钢集团有限公司
可持续发展报告

Sinosteel Sustainability Report



BAOWU 中钢集团

宝武共铸
CO-FORGE WITH BAOWU

关于本报告
About the Report

报告周期
Reporting Period

本报告为中国中钢集团有限公司发布的第 19 份年度可持续发展报告。本着客观全面、规范透明的原则，详细阐述 2025 年度在经济、社会和环境方面的管理理念、亮点实践及年度成效。

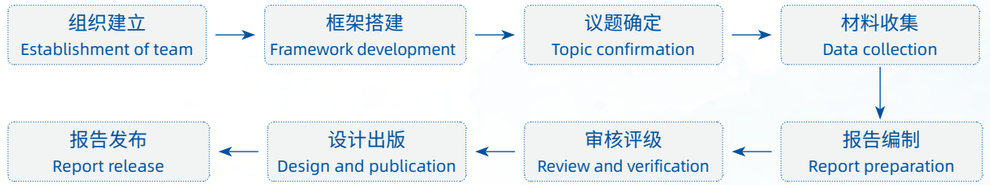
This is the 19th annual sustainability report issued by Sinosteel Group Corporation Limited. The Company guarantees the completeness and transparency of the information and data disclosed in this report, which elaborates on the Company's management philosophy, notable practices, and annual achievements in economic, social, and environmental areas during 2025.

报告范围
Reporting Scope

除有特殊说明，本报告主要描述 2025 年 1 月 1 日至 2025 年 12 月 31 日期间，中钢集团及其子公司，在主责主业、科技创新、绿色发展、关爱员工、乡村振兴、社会公益、海外履责等重点领域的实践及绩效。

Unless otherwise specified, this report primarily describes the practices and performance of Sinosteel and its subsidiaries from January 1, 2025, to December 31, 2025, in key areas such as primary responsibilities and main businesses, technological innovation, green development, employee care, rural revitalization, social welfare, and overseas responsibility fulfillment.

编制流程
Preparation Process



编制依据

Preparation Standard

- 全球报告倡议组织《可持续发展报告标准》（GRI Standards）

  Sustainability Reporting Guidelines (GRI Standards) issued by the Global Reporting Initiative (GRI)

- 联合国可持续发展目标（SDGs）

  United Nations Sustainable Development Goals (SDGs)

- 国际标准化组织《ISO 26000：社会责任指南》

  ISO 26000: Guidance on Social Responsibility issued by the International Organization for Standardization

- 国务院国资委《关于新时代中央企业高标准履行社会责任的指导意见》

  Guidelines for Central State-Owned Enterprises to Fulfill Social Responsibilities to High Standards in the New Era issued by the State-Owned Assets Supervision and Administration Commission (SASAC) of the State Council

- 财政部《企业可持续披露准则——基本准则（试行）》

  Corporate Sustainability Disclosure Standards–Basic Standards (Trial) issued by the Ministry of Finance

- 中国企业改革与发展研究会和责任云研究院《中国企业可持续发展报告指南（CASS-ESG 6.0）》

  Guidelines on Corporate Sustainability Reporting for Chinese Enterprises (CASS-ESG 6.0) issued by the China Enterprise Reform and Development Society and the CSR Cloud Research Institute

- 中国宝武《社会责任工作管理制度（2024 版）》《社会责任指标体系（2026 版）》

  Social Responsibility Management System (2024 Edition) and Social Responsibility Indicator System (2026 Edition) issued by China Baowu Steel Group Corporation Limited

质量保证

Reliability Assurance

本报告披露的信息和数据来源于中钢集团统计报告和正式文件，并通过相关部门审核。中钢集团承诺本报告不存在任何虚假记载或误导性陈述，并对内容的真实性、准确性和完整性负责。

The information and data disclosed in this report are sourced from the Company's statistical reports and official documents, and have been reviewed by relevant departments. The Company warrants that this report contains no false records or misleading statements, and assumes full responsibility for the authenticity, accuracy, and completeness of its contents.

发布形式

Release Form

本报告以印刷品、电子文档形式发布，其中电子文档可在中钢集团官方网站（https://www.sinosteel.com）下载阅读。为减少印刷对环境产生的影响，我们倡导读者尽可能下载阅读电子文件。

This report is published in printed and electronic formats, with the electronic version available for download and reading on the website of Sinosteel (https://www.sinosteel.com). To minimize the environmental impact of printing, we encourage readers to download and read the electronic version whenever possible.

称谓说明

Names and Abbreviations

企业名称 Chinese Name	简称 Abbreviation	英文名称 English Name
中国宝武钢铁集团有限公司	中国宝武、宝武集团	China Baowu Steel Group Corporation Limited
中国中钢集团有限公司	中钢集团、中钢、我们	Sinosteel Group Corporation Limited
中钢海外资源有限公司	中钢海外	Sinosteel Overseas Resources Co., Ltd.
中钢矿业开发有限公司	中钢矿业	Sinosteel Mining Development Co., Ltd.
中钢天源股份有限公司	中钢天源	Sinosteel New Materials Co., Ltd.
中钢洛耐科技股份有限公司	中钢洛耐	Sinosteel Luonai Materials Technology Corporation
中钢集团马鞍山矿山研究总院股份有限公司	中钢矿院	Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.
中钢集团鞍山热能研究院有限公司	中钢热能院	Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd.
中钢国际贸易有限公司	中钢国贸	Sinosteel International Trading Co., Ltd.
中钢国际货运有限公司	中钢货运	Sinosteel International Freight Co., Ltd.
中钢集团衡阳重机有限公司	中钢衡重	Sinosteel Hengyang Heavy Machinery Co., Ltd.
中钢资产管理有限责任公司	中钢资产	Sinosteel Asset Administration Co., Ltd.
中钢物业管理有限公司	中钢物业	Sinosteel Property Management Co., Ltd.
萨曼可铬业有限公司	萨曼可铬业	Samancor Chrome Limited
中钢津巴布韦铬业有限公司	中钢津巴布韦铬业	Zimasco Private Limited
中钢菲律宾汇洋矿业有限公司	中钢菲律宾汇洋矿业	Sinosteel Phil. H.Y. Mining Corporation
中钢集团山东富全矿业有限公司	中钢富全矿业	Sinosteel Shandong Fuquan Mining Co., Ltd.
中钢集团山东矿业有限公司	中钢山东矿业	Sinosteel Shandong Mining Co., Ltd.
中钢集团安徽刘塘坊矿业有限公司	中钢刘塘坊矿业	Sinosteel Anhui Liutangfang Mining Co., Ltd.
中钢集团赤峰金鑫矿业有限公司	中钢赤峰矿业	Sinosteel Chifeng Jinxin Mining Co., Ltd.
中钢集团郑州金属制品研究院股份有限公司	中钢制品院	Sinosteel Zhengzhou Research Institute of Steel Wire Products Co., Ltd.
中唯炼焦技术国家工程研究中心有限责任公司	中唯公司	Zhongwei National Engineering Research Center For Coking Technology Co., Ltd.

中钢集团“1+N+M”可持续发展报告体系

Sinosteel "1+N+M" Sustainability Report System

“1”中钢集团历年可持续发展报告

Previous Sustainability Reports of Sinosteel


2025


2024


2023


2022


2021


2020


2019


2018


2017


2016


2015


2014


2013


2012


2011


2010


2009


2008


2005-2007

“N” 中钢集团国别报告

Country Reports of Sinosteel


2023


2018

《中钢集团可持续发展非洲报告》

Sinosteel Group Corporation Limited Sustainability Africa Report


《中钢集团可持续发展澳洲报告》

Sinosteel Corporation Sustainability Australia Report

“M”中钢集团所属上市公司可持续发展报告 / ESG 报告

Sustainability Reports / ESG Reports of Listed Companies Affiliated to Sinosteel


2025

中钢天源

Sinosteel New Materials Co., Ltd.


2025

中钢洛耐

Sinosteel Luonai Materials Technology Corporation


2025

中钢国际

Sinosteel Engineering & Technology Co., Ltd.

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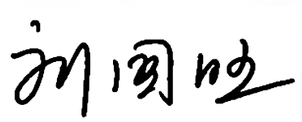
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董事长致辞
From the Management



中国中钢集团有限公司董事长、党委书记
刘国旺

Chairman and Secretary of the Party Committee of Sinosteel
Liu Guowang



2025 年是“十四五”规划收官之年，也是中钢集团迈向新发展征程的关键之年。我们坚持以习近平新时代中国特色社会主义思想为指导，全面贯彻党的二十大和二十届历次全会精神，勇担资源报国使命，坚定落实宝武“三新”战略部署，深化“一专两转三增三减”经营思路，推动算账经营与整合协同深度结合，在变局中育新机、于实干中开新局，交出了一份有分量、有温度的履责答卷。

深耕主责主业，筑牢发展根基。我们深入贯彻落实党中央决策部署，以“三新”理念驱动发展，全力构建“1+X”业务体系，推进小金属资源增产降本、相关新材料协同创效，铬矿等实业收入同比增加显著，主业发展脉络愈发清晰。我们持续攻坚推进债务重组实现历史性突破，以“三压减三提升”专项行动提升效率，业务结构持续优化，转型发展初见成效。

坚持创新赋能，构建竞争优势。我们聚焦科技创新创效，加快培育战新产业，三家全国重点实验室成功纳入新序列并启动全面建设；聚焦国家重大战略需求开展技术攻关，重型燃气轮机燃烧室用陶瓷材料制备填补国内空白，深部高储能金属矿爆破开采技术服务“一带一路”建设，系列高铈低成本钕铁硼磁体实现批量化应用。统筹推动“资源 + 技术”延伸铬基产业链，发挥技术合力，推动铬矿产业链向高附加值、绿色低碳延伸。

践行绿色发展，厚植生态底色。我们深入贯彻“绿水青山就是金山银山”理念，将绿色低碳贯穿生产经营全链条。完善环境管理体系，20 家法人单位通过 ISO 14001 认证。锚定“双碳”目标，大力发展光伏、绿电等清洁能源，强化资源循环利用，推进低碳技术攻关与节能改造，推进无废工厂、绿色矿山建设，守护流域生态，以绿色转型为高质量发展筑牢生态根基。

勇担社会责任，彰显国企担当。我们心怀“国之大者”，深度融入国家战略与地方发展大局，在保障产业链供应链安全、稳定区域经济增长中主动作为。坚持以人为本，保障员工合法权益，搭建成长成才平台，完善职工关怀体系，让发展成果更多惠及全体职工。积极投身公益事业，助力乡村振兴、赈灾帮扶与民生改善，扎实推进海外履责，以实际行动回馈社会、温暖民心。

立足“十五五”开局新起点，我们将深入贯彻落实宝武“三创四化五策略”高质量发展模式，加快做优做强小金属资源和新材料主责主业，以更加昂扬的斗志、更加务实的作风、更加坚定的行动，为保障国家产业链供应链安全、实现中钢集团持续高质量发展而接续奋斗！

The year 2025 marks the crucial final stretch of the 14th Five-Year Plan and stands as a pivotal year for Sinosteel as it advances toward a new phase of development. Throughout the year, we remained committed to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, fully implemented the guiding principles of the 20th CPC National Congress and its successive plenary sessions, and courageously fulfilled the Company's mission of contributing resources to the country. We resolutely implemented China Baowu's strategic deployment for the "New Stage, New Strategy, New Model", with a focus on operational strategy of "One Focus, Two Transformations, Three Increases, Three Reductions", to promote the deep integration of accounting-based management and integration synergy, fostering new opportunities amid changing circumstances and opening up new prospects through practical actions, thereby delivering a substantial and compassionate performance report on fulfilling our responsibilities.

Deepening our focus on core businesses to solidify the foundation for development. We thoroughly implemented the decisions and arrangements of the Party Central Committee, developed under the idea of China Baowu's strategies of "New Stage, New Strategy, New Model" fully established the "1+X" business system, advanced the increase in production and reduction of costs for specified metal resources other than iron ore, and promoted the synergistic creation of benefits for related new materials. Revenue from industries such as chromium ore posted a notable year-on-year increase, and the development path of our core businesses became increasingly clear. We made persistent efforts to achieve a historic breakthrough in debt restructuring, enhanced efficiency through the special campaign of "Three Reductions and Three Improvements", continuously optimized the business structure, and achieved initial results in transformation and development.

Adhered to innovation-driven empowerment and built competitive advantages. Focusing on technological innovation and effectiveness, we accelerated the cultivation of strategic emerging industries, and three national key laboratories were successfully included in the new sequence and commenced comprehensive construction; focusing on the major strategic needs of the nation, technological breakthroughs were carried out, the preparation of ceramic materials for heavy-duty gas turbine combustion chambers filled a domestic gap, deep high-energy metal ore blasting mining technology served the Belt and Road Initiative, and a series of high-cerium, low-cost NdFeB magnets achieved batch application. We coordinated efforts to extend the chromium-based industrial chain through "resources + technology", to leverage technological synergies and drive the chromium ore industrial chain toward high-value-added, green, and low-carbon development.

Pursuing green development and deepening the ecological foundation. We thoroughly implemented the concept that “lucid waters and lush mountains are invaluable assets", integrating green and low-carbon principles throughout the entire chain of production and operation. The environmental management system was enhanced, with 20 corporate entities obtaining ISO 14001 certification. Anchored to the "Carbon Peaking and Carbon Neutrality Goals", we vigorously developed clean energy sources such as photovoltaic power and green electricity, strengthened resource recycling, advanced research in low-carbon technologies and energy-saving retrofits, deepened the development of zero-waste factories and green mines, and safeguarded the watershed ecosystem, thereby laying a solid ecological foundation for high-quality development through green transformation.

Courageously shouldering social responsibilities and demonstrating the commitment of a state-owned enterprise. We bore in mind the fundamental interests of the nation, deeply integrated into national strategies and local development initiatives, and took proactive measures to ensure the security of industrial and supply chains while stabilizing regional economic growth. We adhered to a people-oriented approach, safeguarded the legitimate rights and interests of employees, established platforms for growth and development, improved the employee care system, and ensured that the fruits of development benefit all staff members. We actively engaged in public welfare endeavors, supported rural revitalization, disaster relief and aid, and livelihood improvements, and steadily advanced our overseas responsibilities, contributing to society and bringing warmth to the people through concrete actions.

Standing at the new starting point of the 15th Five-Year Plan, we will thoroughly implement Baowu's high-quality development model of "Three Innovations, Four Transformations, and Five Strategies". We will accelerate the optimization and strengthening of our core businesses in specified metal resources other than iron ore and new materials. With greater vigor, a more pragmatic work style, and firmer actions, we will continue to strive to safeguard national industrial and supply chain security and achieve sustainable high-quality development of Sinosteel !

走进中钢
About Sinosteel

公司概况
Company Overview

中国中钢集团有限公司组建于 1993 年，总部位于中国北京。中钢集团是中国宝武钢铁集团有限公司的二级公司，专注于小金属资源开发、矿物加工、相关新材料制造、技术研发及供应链服务等专业领域，是一家提供小金属资源及相关新材料绿色低碳产品服务的高科技企业。中钢集团拥有 3 家上市公司：中钢天源（深圳证券交易所，股票代码 002057.SZ）；中钢洛耐（上海证券交易所科创板，股票代码 688119.SH）；中钢国际（深圳证券交易所，股票代码 000928.SZ）。

中钢集团是中国最早“走出去”开发海外矿产资源的国有大型企业之一，拥有近 40 年海外矿产资源开发历史，从 20 世纪 80 年代起陆续在澳大利亚、南部非洲、印尼、菲律宾等地建设铁矿、铬矿（铬铁）、镍矿等资源基地，已初步形成“以铬为核心、镍钼萤石等多点支撑”的小金属资源格局，建立了国际化采销渠道，树立了中钢品牌，国际化业务收入占比达 60%。

中钢集团现有工程院院士 2 名，一支国家级领军人才牵头的高素质科技、国际化经营管理和市场化人才队伍。拥有包括 3 个全国重点实验室在内的行业独有的 22 个国家级研发及服务平台，多个硕（博）培养机构和院士工作站，形成以科技创新驱动小金属资源产业发展的特色优势。得益于 60 年冶金行业国家级研究机构深厚积淀，在采矿、选矿、耐火材料、磁性材料、弹性材料及节能环保等领域具有较强的研发实力，积累了大批科技成果，是战略性新兴产业培育发展的策源地，为矿产资源开发加工利用提供全生命周期综合解决方案，孵化培育发展新产业。

Sinosteel Group Corporation Limited (hereinafter referred to as "Sinosteel"), established in 1993, is headquartered in Beijing, China. Sinosteel serves as a Tier 2 company of China Baowu Steel Group Corporation Limited (hereinafter referred to as "China Baowu"), specializing in the development of specified metal resources other than iron ore, mineral processing, related new materials manufacturing, technological research and development, and supply chain services. It is a high-tech enterprise that provides green, low-carbon products and services across the specified metal resources other than iron ore and related new materials sectors. Sinosteel boasts three companies listed on China's stock markets: Sinosteel New Materials Co., Ltd. (Shenzhen Stock Exchange, 002057.SZ); Sinosteel Luonai Materials Technology Corporation (STAR Market, Shanghai Stock Exchange, 688119.SH); and Sinosteel Engineering & Technology Co., Ltd.(Shenzhen Stock Exchange, 000928.SZ).

Sinosteel is one of China's largest state-owned enterprises (SOEs) that went global earliest and engaged in international economic and technological cooperation, with nearly 40 years of experience in overseas mineral resources development. Since the 1980s, we have established resource bases for iron ore, chromite (ferrochrome) ore, nickel ore, and other minerals in Australia, Southern Africa, Indonesia, the Philippines, and the like. We have initially formed a structure of specified metal resources other than iron ore centered on chromium, with multiple supporting points such as nickel, molybdenum, and fluorite. We have also established internationalized procurement and sales channels and built the Sinosteel brand, and its international business revenue accounts for 60% of its total revenue.

Sinosteel currently employs two academicians of the Chinese Academy of Engineering and boasts a high-quality talent pool led by excellent engineers, specializing in technology, international business management, and market operations. With 22 unique national-level research and development platforms in the industry, including three national key laboratories and multiple master's and doctoral degree programs and academician workstations, Sinosteel has formed a distinctive advantage in driving the industry development of specified mineral resources other than iron ore through technological innovation. Drawing on 60 years of profound expertise from a national-level research institution in the metallurgical industry, Sinosteel boasts strong research and development capabilities in fields such as mining, mineral processing, refractory materials, magnetic materials, elastic materials, and energy conservation and environmental protection. It has amassed many scientific and technological achievements, serving as a cradle for the cultivation and development of strategic emerging industries. Sinosteel provides comprehensive lifecycle solutions for the development, processing, and utilization of mineral resources, while incubating and fostering new industries.



2025 年 In 2025

营业收入
536.67 亿元
Operating revenue: 53.667 billion yuan

资产总额
1,033.91 亿元
Total assets: 103.391 billion yuan

纳税总额
22.87 亿元
Total tax paid: 2.287 billion yuan

工业总产值
242.84 亿元
Industrial output value: 24.284 billion yuan

员工总数
22,214 人
Employees: 22,214



企业文化
Corporate Culture

企业使命 Corporate Mission

勇担资源报国使命　服务宝武战略所需
聚力协同价值创造　保障产业链、供应链安全稳健

Fulfill the mission of contributing resources to the country, serve the strategic needs of China Baowu, focus on the creation of collaboration value, and ensure the safety and stability of industry chain and supply chain



企业价值观 Corporate Values

诚信 创新 绿色 协同

Integrity, Innovation, Green, Collaboration

企业愿景 Corporate Vision

成为小金属资源及相关新材料的价值引领者

To become a world-leading supplier of specified mineral resources other than iron ore and related new materials

发展战略
Development Strategy

战略定位 Strategic Positioning

提供小金属资源及相关新材料绿色低碳产品服务的高科技企业
中国宝武北京总部

A high-tech enterprise providing low-carbon products and services in connection with specified metal resources other than iron ore and related new materials, and serves as China Baowu's Beijing headquarters

商业模式 Business Model

以客户为中心，打造“1（小金属资源）”+“X（相关新材料）”业务布局，构建资源开发、矿物加工、相关新材料制造、技术研发及供应链服务一体化协同体系

Centered on customers, we build a "1 (specified metal resources other than iron ore)" + "X (related new materials)" business layout, establishing an integrated collaborative system encompassing resource development, mineral processing, related new materials manufacturing, technology research and development, and supply chain services

主责主业 Core Businesses

小金属资源开发加工及相关新材料研发制造服务

Exploration of specified metal resources other than iron ore and R&D and manufacturing of related new materials

业务布局 Business Layout

构建“小金属资源‘1’+相关新材料‘X1’+资产经营‘X2’”的业务体系

Establishing a business system of "specified metal resources other than iron ore ('1') + related new materials ('X1') + asset management ('X2')"

中钢业务体系 Sinosteel Business System

聚焦生态圈小金属资源保障
Focus on the resource security of specified metal resources other than iron ore within the ecosystem

聚焦产业链优势环节
Focus on advantageous links along the industrial chain

1 “1”小金属资源
"1" refers to specified metal resources other than iron ore

X1 “X1”相关新材料
"X1" refers to related new materials

X2 “X2”资产经营
"X2" refers to asset management

产业链、创新链、供应链“三链协同一体化运作”
Integrated operation with coordinated development of the industrial chain, innovation chain and supply chain

资源开发 Resource Development ↔ 矿山采选 Mining and Dressing ↔ 合金加工 Mineral Processing ↔ 相关新材料 Related New Material ↔ 技术研发 Technology R&D ↔ 供应链服务 Supply Chain Services

科技研发 Technology R&D + 成果转化 Commercialization of Scientific and Technological Achievements

改革创新，整合协同，有所有为，有所不为，不断打造小金属资源及相关新材料的价值引领者

Reform and innovation, integration and coordination, focus on what we should do and refrain from what we should not do, and continuously build a value leader in specified metal resources other than iron ore and related new materials

组织架构
Organizational Structure

中国中钢集团有限公司（中国宝武北京总部）
Sinosteel Group Corporation Limited (China Baowu's Beijing headquarters)

中国中钢股份有限公司
Sinosteel Corporation Limited

中钢资本控股有限公司
Sinosteel Capital Holding Company Limited

董事会
Board of Directors

- **战略与投资委员会**
  Strategy and Investment Committee
- **薪酬与考核委员会**
  Compensation and Evaluation Committee
- **审计与风险委员会**
  Audit and Risk Committee

经营层
Management

- **办公室 | 党委办公室 | 董事会办公室**
  Office, Party Committee Office, Board Office
- **党委组织部 | 人力资源部**
  Party Organization Dept., Human Resources Dept.
- **经营财务部 | 资本运营部**
  Operation & Finance Dept., Capital Operation Dept.
- **规划投资部 | 公司治理部**
  Planning & Investment Dept., Corporate Governance Dept.
- **法律合规部**
  Legal & Risk Management Dept.
- **海外事业部**
  Overseas Business Dept.
- **生产技术部 | 科技创新部 | 数据智慧办公室**
  Production Technology Dept., Science and Technology Innovation Dept., Data Smart Office
- **安全环保部**
  Safety & Environmental Protection Dept.
- **营销中心**
  Marketing Center
- **审计部 | 党委巡察办**
  Audit Dept., Party Inspection Dept.
- **纪检监督部**
  Disciplinary Inspection and Supervision Dept.
- **党群工作部 | 党委宣传部 | 企业文化部 | 工会 | 团委**
  Party & Union Work Dept., Party Publicity Dept., Corporate Culture Dept., Trade Union, League Committee



数据有效期截至 2026 年 6 月。
Data valid as of June 2026.

董事会
Board of Directors



刘国旺 Liu Guowang
董事长
Chairman



李荣庭 Li Rongting
董事
Director



姜尚君 Jiang Shangjun
外部董事
External Director



胡裔光 Hu Yiguang
外部董事
External Director



顾素琴 Gu Suqin
外部董事
External Director



张智勇 Zhang Zhiyong
职工董事
Employee Director

来源：中国中钢集团有限公司官网（https://www.sinosteel.com），截至 2026 年 6 月。
Source: Official website of Sinosteel Group Corporation Limited (https://www.sinosteel.com), as of June 2026.

管理团队
Management Team



刘国旺 Liu Guowang
党委书记、董事长
Secretary of the Party Committee and Chairman



李荣庭 Li Rongting
党委副书记、总经理
Deputy Secretary of the Party Committee and General Manager



刘德斌 Liu Debin
副总经理
Deputy General Manager



刘 澎 Liu Peng
副总经理
Deputy General Manager



许传华 Xu Chuanhua
副总经理
Deputy General Manager



张智勇 Zhang Zhiyong
党委副书记
Deputy Secretary of the Party Committee



赵春阳 Zhao Chunyang
副总经理
Deputy General Manager



刘质岩 Liu Zhiyan
纪委书记
Secretary of the Commission for Discipline Inspection

责任管理
Responsibility Management

责任理念
Responsibility Concept

中钢集团积极履行经济、环境和社会三重底线责任，结合行业特征和企业特点，始终兼顾各利益相关方的利益，提出了由“价值产业链、绿色创新链、和谐共赢链”构成的责任理念，坚持提升价值创造，坚信绿色发展引领未来，坚定贡献社会和谐发展。

We actively meet our economic, environmental, and social responsibilities by aligning with industry trends and leveraging our corporate strengths. Committed to balancing the interests of all stakeholders, we have developed a sustainability framework built around three core chains: the value-added industry chain, the green innovation chain, and the harmonious win-win chain. This approach underscores our dedication to driving value creation, advancing green development as a strategic priority, and contributing meaningfully to a more sustainable and harmonious society.



责任治理
Responsibility Governance

中钢集团根据管控模式调整与业务推进情况，持续健全社会责任管理体系，社会责任工作由中钢集团社会责任工作领导小组负管理责任，党群工作部、党委宣传部作为归口管理部门，负责社会责任工作的整体推进，并进一步明确了各职能部门和下属企业在社会责任推进过程中的主要职责和重点工作。

We continue to improve our social responsibility management system. According to the adjustment of the group's management and control model and business promotion, the company's social responsibility work is managed by the Leading Group for Social Responsibility. As a centralized management department, the Party & Union Work Dept. and Party Publicity Dept. are responsible for the overall promotion of social responsibility work, and further clarify the main responsibilities and key tasks of various functional departments and subsidiaries in the process of promoting social responsibility.

责任能力
Responsibility Capacity

中钢集团按照计划推进社会责任管理工作，不断将社会责任融入日常运营活动之中，并按时发布可持续发展报告、与利益相关方积极沟通，加强履责能力建设。积极参加中国宝武等相关部门组织的社会责任、ESG 培训，对标先进企业，提升社会责任工作的管理水平和实践水平，不断增强社会责任工作能力，形成可操作的经验和模式。加强企业可持续发展能力建设，推进企业经营模式转变，推动改革探索。

Sinosteel promotes social responsibility management according to the plan, continuously integrates social responsibility into daily operations, releases sustainability reports on time, actively communicates with stakeholders, and strengthens capacity building. The Company actively participates in social responsibility and ESG training organized by China Baowu and other relevant departments to benchmark advanced enterprises, enhance the management level and practice level of social responsibility work, constantly improve its social responsibility management capabilities, and develop actionable experience and models. Sinosteel has strengthened the capacity of sustainable development, promoted the transformation of their business models, and promoted reform exploration.

责任沟通
Responsibility Communication

中钢集团非常重视与各利益相关方的沟通，建立互信，促进合作，共同创造可持续的未来。在公司内部，充分利用职工代表大会、员工座谈会、情况通报会、邮箱信箱等多种形式和载体，畅通沟通交流渠道，听取意见建议，汇聚智慧力量。对外，公司通过定期发布可持续发展报告，利用官方网站、官方微信平台、主流媒体网站，准确披露公司上年度的经济、社会、环境的履责情况，让利益相关方更了解企业。

Sinosteel attaches great importance to communication with various stakeholders, building mutual trust, promoting cooperation, and jointly creating a sustainable future. Internally, we make full use of channels such as employee representative meetings, employee forums, briefing sessions, and email channels to maintain open lines of communication, gather feedback, and harness collective insights. Moreover, we regularly publish sustainability reports and leverage our official website, WeChat platform, and major media outlets to accurately disclose the economic, social, and environmental responsibilities of the previous year, so that stakeholders can better understand the Company.

利益相关方 Stakeholders	政府 Government	员工 Employee	客户 Client	合作伙伴 Business Partner	社区与环境 Community and Environment	媒体与非政府组织 Media and Nongovernmental Organizations	供应商 Supplier
期望 Expectation	● 保障国家资源安全 ● 遵纪守法 ● 促进经济社会发展 ● 按时足额纳税 ● Ensuring national resource security ● Observing discipline and laws ● Promoting economic and social development ● Paying taxes in full and on time	● 基本权益保障 ● 职业发展通道畅通 ● 个人价值实现 ● Basic rights and interests protection ● Smooth career development channels ● Realization of personal value	● 提供可靠的产品 ● 维护良好的客户关系 ● 提供优质服务 ● Providing reliable products ● Maintaining good customer relations ● Providing quality service	● 协同创新 ● 优势互补 ● 提高价值创造能力 ● 建立长期合作关系 ● Collaborative innovation ● Complementing each other ● Improving value creation ability ● Establishing a long-term cooperative relationship	● 环境保护 ● 安全稳定 ● 带动社区繁荣 ● 促进社区和谐 ● 公益事业 ● Environmental protection ● Safety and stability ● Driving community prosperity ● Promoting community harmony ● Public welfare undertakings	● 支持媒体与非政府组织倡议或活动 ● 发挥大企业模范表率作用 ● 推动可持续发展各项工作 ● Supporting media and NGO initiatives or activities ● Giving play to the exemplary role of large enterprises ● Promoting sustainable development	● 遵守商业道德 ● 公平公开公正实施招投标 ● 为供应商提供指导与帮助 ● Observing business ethics ● Implementing bidding in a fair, open and impartial manner ● Providing guidance and assistance to suppliers
回应 Response	● 参与政策制定 ● 定期会晤、拜访 ● 召开工作会议 ● 签订战略合作协议 ● Participating in policy formulation ● Regular meetings and visits ● Convening work meetings ● Signing a strategic cooperation agreement	● 职工代表大会 ● 工会组织 ● 员工座谈会 ● 员工满意度调查 ● Workers' Congress ● Trade union organization ● Staff Symposium ● Employee satisfaction survey	● 客户关系管理 ● 客户合作洽谈 ● 客户第三方满意度调查 ● Customer relationship management ● Discussion with the customer on cooperation ● Customer satisfaction survey conducted by a third party	● 高层互访 ● 项目合作 ● 不定期会晤 ● 签订战略合作协议 ● Exchanging high-level visits ● Project cooperation ● Irregular meetings ● Signing a strategic cooperation agreement	● 绿色钢铁 ● 开展社区需求调研 ● 实施社区共建计划 ● 公益捐赠 ● 组织员工志愿者活动 ● Green steel ● Conducting community needs research ● Implementing the community co-construction plan ● Public donations ● Organizing staff volunteer activities	● 参与行业协会等活动 ● 参加项目研讨 ● 开展项目合作 ● Participating in industry associations and other activities ● Participating in project discussion ● Carrying out project cooperation	● 签订合作协议 ● 将供应商纳入 ERP 管理 ● 供应商关怀活动 ● 供应商满意度调查 ● Signing the cooperation agreement ● Integrating suppliers into ERP management ● Supplier care activities ● Supplier satisfaction survey

议题识别
Topic Identification

中钢集团紧跟新时代对中央企业高标准履行社会责任的要求，遵循全面、科学、与时俱进的原则，综合分析宏观形势、标准要求、行业趋势、相关方关注点、公司发展战略等，识别并筛选出对公司和利益相关方都重要的实质性议题，指导公司有的放矢地开展社会责任工作。

Keeping pace with the higher expectations for central enterprises to fulfill social responsibilities in the new era, Sinosteel adheres to the principles of comprehensiveness, scientific rigor, and keeping abreast of the times. We comprehensively analyze the macroeconomic situation, standards and requirements, industry trends, stakeholders' concerns, and our development strategies to identify and screen out material issues that are important to the Company and stakeholders. This approach guides targeted and effective social responsibility initiatives.

议题识别 Topic Identification

政策分析 Policy review

深入解读国家宏观政策及行业相关政策法规，领会社会责任的方向及趋势。

Conduct an in-depth analysis of national macro policies and industry regulations to understand the direction and trends of corporate social responsibility (CSR).

标准研究 Standard research

梳理全球报告倡议组织《可持续发展报告标准》（GRI Standards）、联合国可持续发展目标（SDGs）等国际标准；同时参考国家标准《社会责任报告编写指南》（GB/T 36001-2015），中国企业改革与发展研究会和责任云研究院《中国企业可持续发展报告指南（CASS-ESG 6.0）》以及《中国企业可持续发展报告指南 CASS-ESG 6.0（一般采矿业）》等。

Review international standards such as the *Sustainability Reporting Guidelines* (GRI Standards) issued by the Global Reporting Initiative (GRI), United Nations Sustainable Development Goals (SDGs), and key Chinese guidelines including the *Guidance on Social Responsibility Reporting* (GB/T 36001-2015), as well as the *Guidelines on Corporate Sustainability Reporting for Chinese Enterprises (CASS-ESG 6.0)* and *Guidelines on Corporate Sustainability Reporting for Chinese Enterprises CASS-ESG 6.0 (General Mining Industry)* by the China Enterprise Reform and Development Society and the CSR Cloud Research Institute.

行业对标 Industry benchmarking

对标行业优秀报告，全面覆盖社会责任战略及管理、实质性议题、指标等。

Evaluate against leading industry reports to ensure comprehensive coverage of CSR strategies, material topics, and performance indicators.

战略聚焦 Strategic alignment

结合中钢集团发展战略规划，识别对中钢集团实现战略目标意义重大的关键议题。

Identify key topics that are critical to achieving Sinosteel's strategic objectives based on Sinosteel's strategic plan.

议题评估与确认 Topic Assessment and Confirmation

利益相关方调研 Stakeholder engagement

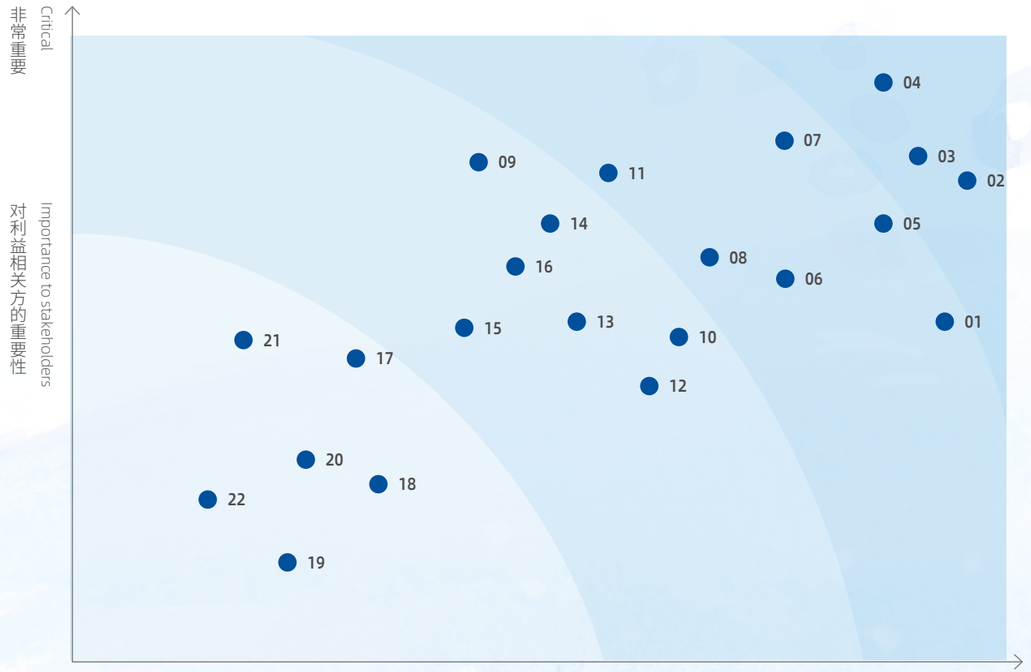
通过对中钢集团内部各部门、员工以及上下游关联企业、合作伙伴进行访谈，并编制实质性议题调查问卷，了解利益相关方对中钢集团的期望与诉求。

Conduct interviews across internal departments, employees, and upstream and downstream partners, and design a materiality questionnaire to better understand stakeholder expectations and concerns regarding the Company.

双重重要性分析 Double materiality analysis

分别评估各议题“对利益相关方的重要性”和“对公司发展的重要性”结果，并综合分析作为 2025 年可持续发展报告披露重点。

Assess each topic based on its importance to stakeholders and its importance to corporate development and determine the key focus areas for disclosure in Sinosteel's 2025 Sustainability Report.



01 公司治理 Corporate Governance	09 智慧矿山与矿产资源保护 Smart Mining and Mineral Resource Protection	16 重视商业道德 Emphasizing Business Ethics
02 国有资产保值增值 Maintaining and Increasing the Value of State-owned Assets	10 绿色生产 Green Manufacturing	17 生态系统和生物多样性保护 Ecosystem and Biodiversity Conservation
03 产品与服务质量 Product and Service Quality	11 响应国家战略 Responding to National Strategies	18 资源利用与循环经济 Resource Utilization and Circular Economy
04 安全生产 Workplace Safety	12 环境合规管理 Environmental Compliance	19 海外履责 Overseas Responsibility Fulfillment
05 合规与风险管理 Compliance and Risk Management	13 加强社会责任管理 Strengthening Social Responsibility Management	20 推动行业进步 Advancing the Industry
06 应对气候变化 Climate Change Response	14 信息安全与隐私保护 Information Security and Privacy Protection	21 社会贡献 Social Contribution
07 创新驱动 Innovation-driven Development	15 负责任供应链 Responsible Supply Chain	22 乡村振兴 Rural Revitalization
08 员工责任 Employee Responsibility		

锚定铬产业全球引领者

提升小金属资源产业战略价值

Anchored the Goal of Becoming a Global Leader in the Chromium Industry and Enhanced the Strategic Value of Specified Metal Resources other than Iron Ore

中钢集团围绕宝武集团“新阶段、新战略、新模式”战略部署，勇担“资源报国”使命，持续巩固“两化两资源一科技”优势，推进减量提质创效，致力打造成为提供小金属资源及相关新材料绿色低碳服务的高科技企业。

In alignment with Baowu Group's strategic deployment of "New Stage, New Strategy, and New Model", Sinosteel courageously undertakes the mission of "Serving the Nation with Resources". The Company continues to consolidate its strengths in "Internationalization, Market Orientation, Talent Resources, Mineral Resources, and Scientific and Technological Innovation Capabilities" while advancing initiatives to reduce output, improve quality, and boost efficiency. It is dedicated to becoming a high-tech enterprise that provides green and low-carbon services for specified metal resources other than iron ore and related new materials.

聚焦战略内核，发挥核心功能
Focusing on the Strategic Core and Leveraging Core Functions

着力构建“1（小金属资源）”+“X（相关新材料等）”业务体系，以做强做优铬基盘为核心，深度融入宝武“1+3+2”产业体系。充分发挥市场化、国际化优势，不断强化全球资源配置能力、深化产能合作深度，积极构建国际合作与竞争新优势，为战略性矿产资源安全保障提供支撑。

We concentrate our efforts on building a business system of "1 (specified metal resources other than iron ore) + X (related new materials, etc.)", with the chromium-based foundation as its strategic centerpiece, deeply integrated into China Baowu's "1+3+2" industrial system. By fully leveraging its market-oriented and internationalized advantages, the Company continuously enhances global resource allocation capabilities and deepens production capacity collaboration. It actively cultivates new competitive edges in international cooperation and competition, thereby reinforcing the security of strategic mineral resources.

筑牢小金属资源基盘业务
Strengthening the Foundation of Specified Metal Resources other than Iron Ore

依托矿产资源高效开发技术优势，持续推动资源开发向精、细、高迈进，持续提升铬产业核心竞争力。不断加大镍、钼、萤石等资源的寻源，构建高效安全、成本可控的小金属资源供应链，为钢铁主业发展提供重要协同支撑。

Drawing on its technological strength in efficient mineral resource development, Sinosteel is continuously advancing resource development toward greater refinement, precision, and value enhancement. The Company is continuously enhancing the core competitiveness of its chromium industry, and intensifying efforts to identify and source resources such as nickel, molybdenum, and fluorite, with the aim of building an efficient, secure, and cost-competitive supply chain for specified metal resources. This will, in turn, provide important synergistic support for the development of the core steel business.



中钢集团董事长、党委书记刘国旺参加“投资南非战略对话会”，与南非副总统及部长代表团、中方机构和企业代表开展深入探讨与交流。

Liu Guowang, Chairman and Secretary of the Party Committee of Sinosteel, participated in the "Strategic Dialogue on Investment in South Africa", engaging in in-depth discussions and exchanges with the South African Vice President and ministerial delegation, as well as representatives from Chinese institutions and enterprises.

发展相关新材料业务
Developing Related New Materials Business

聚焦小金属资源—相关新材料产业链关键环节，以科技研发及技术创新为驱动，布局发展高温非金属材料、磁性材料、弹性材料、碳基材料、硅基材料等战略性新兴产业，发挥资源到材料的产业链协同价值。

Focused on the key links of specified metal resources other than iron ore-related new materials value chain, the company took scientific R&D and technological innovation as the driver, deployed and developed strategic emerging industries such as high-temperature non-metallic materials, magnetic materials, elastomeric materials, carbon-based materials, and silicon-based materials, and leveraged the synergistic value of the industry chain from resources to materials.

推动技术赋能，促进产业升级

Promoting Technological Empowerment to Facilitate Industrial Upgrading

实施垂直一体化培育战略，通过塑链强链举措扎实推进产业升级，实现铬产业全球“地位跃升”，致力成为铬产业全球引领者。

Implementing a vertical integration cultivation strategy, we will steadfastly advance industrial upgrading through initiatives that shape and strengthen the supply chain, achieve a global "status leap" for the chromium industry, and strive to become the global leader in the chromium sector.



中钢集团总经理、党委副书记李荣庭会见标准银行集团企业与投资银行首席执行官 Luvuyo Masinda 一行。

Li Rongting, General Manager and Deputy Secretary of the Party Committee of Sinosteel, met with a delegation led by Luvuyo Masinda, CEO of Corporate and Investment Banking at Standard Bank Group.



萨曼可铬业首席执行官陈忠当选国际铬发展协会（International Chromium Development Association， 简称“ICDA”）2025-2027 年度协会副主席。

Chen Zhong, CEO of Samancor Chrome Limited, was elected as Vice Chairman of the International Chromium Development Association (ICDA) for the 2025-2027 term.

资源开发端：技术挖潜，放大储量优势

Resource Development: Tapped Technological Potential to Magnify the Advantages of Reserves

通过矿山综合技术服务等科技赋能，提升铬矿产量及效率。依托成熟的矿产资源高效开发技术体系，全面推广矿柱回采、绿色充填、智能分选、高压辊磨等先进工艺，持续提高开采回采率、选矿回收率和综合利用率，实现全品类矿产资源降本增效、提质增量。

Through technological empowerment, including integrated mine technical services, Sinosteel is enhancing chromium ore production and operational efficiency. Leveraging its mature and efficient technology system for mineral resource development, the Company is rolling out advanced processes such as pillar recovery, green backfilling, intelligent ore sorting, and high-pressure grinding rolls. These efforts are continuously improving mining recovery rates, beneficiation recovery rates, and comprehensive utilization rates, thereby achieving cost reduction, efficiency gains, quality improvement, and output growth across all categories of mineral resources.



刘国旺一行深入萨曼可铬业所属 Lesedi 地下矿及选矿厂生产现场，对充填采矿项目给予肯定。

Liu Guowang and his delegation visited the production sites of the Lesedi underground mine and the concentrator plant under Samancor Chrome Limited, expressing recognition of the backfill mining project.

加工利用端：技术降本，绿色转型

Processing and Utilization: Driving Cost Reduction through Technology and Green Transformation

依托成熟的铬铁冶炼设备及高端的管理团队、熟练的产业工人、冶金炉窑节能降碳研发优势，引入合作方共同开发 10 万千瓦光伏自备电厂项目，加快光伏绿电项目建成投运，提升炉窑节能效率，显著提高绿色铬铁产品占比，提高市场竞争力和占有率。

Building on its mature ferrochrome smelting equipment, top-tier management team, skilled industrial workforce, and R&D strengths in energy conservation and carbon reduction for metallurgical furnaces, Sinosteel has introduced partners to jointly develop the 100,000-kilowatt captive photovoltaic power plant project. The project is set to accelerate the commissioning and operation of green photovoltaic power, improve furnace energy efficiency, significantly increase the share of green ferrochrome products, and strengthen the Company's market competitiveness and presence.



刘国旺带队到内蒙古调研，拜访铬矿领域重要客户。

Liu Guowang led a team to conduct research in Inner Mongolia for visiting and meetings with key clients in the chromium ore sector.

深化管控协同，锻造硬核实力
Deepened Control and Synergy to Forge Core Strengths

落实“一总部多基地”管理要求，积极探索“1+X”运营管控模式，进一步完善资产经营型、实体产业型管理体系，确保资源精准配置、激发创新活力。

Implemented the management requirements of "one headquarters, multiple bases", actively explored the "1+X" operational control model, and further improved the asset-operating and real-industry management systems to ensure the precise allocation of resources and stimulate innovation vitality.

一体化强管控基盘业务
Integrated Strong Control of Core Businesses

着力培育垂直一体化发展模式，优化治理架构，通过理顺管理权责、优化决策流程，强化总部对核心产业的管理，不断增强小金属资源产业硬实力。发挥矿山综合服务科技支撑作用，以数字化赋能产销研管控，不断提升小金属资源产业软实力。

A vertically integrated development model was cultivated and the governance structure optimized. By clarifying responsibilities and streamlining decision-making, the headquarters' oversight of core industries was strengthened, enhancing the hard power of the industry of specified metal resources other than iron ore. Additionally, comprehensive mining services and digitalization were leveraged to empower production, sales, and R&D management, elevating the industry's soft power.



同莫桑比克马普托港务局 MPDC 公司交流，不断拓展和深化合作领域。

We engaged in exchanges with the Maputo Port Development Company (MPDC) of Mozambique to continuously expand and deepen areas of cooperation.

适度延伸产业链
Moderately Extended the Industry Chain

积极发展以小金属为原料的相关新材料产业，“X”业务实现多点突破，为公司经营增长提供重要支撑。

The related new materials industry using specified metal resources other than iron ore as raw materials was actively developed, and breakthroughs were achieved in multiple areas of the "X" business, providing important support for the company's operational growth.



中钢洛耐承建的印尼莫迪卡阴极铜项目一次性顺利出铜。

The Indonesian Merdeka Cathode Copper Project undertaken by Sinosteel Luonai Merdeka Technology Corporation successfully produced copper in a single operation.



中钢天源实施的蒙古国智能化选矿设备供应项目顺利投产。

The intelligent mineral processing equipment supply project implemented by Sinosteel New Materials Co., Ltd. in Mongolia has been successfully put into operation.

推进整合协同、价值创造
Advancing Integration, Synergy, and Value Creation

中钢集团统筹兄弟单位协同联动，大力推进产业链各环节深度整合与协同，构建资源开发、冶炼加工、技术研发及产品营销一体化运作体系，最大化释放小金属资源产业的战略协同价值。同时，持续加强 ESG 体系建设，探索更可持续、更负责任的发展模式。

Sinosteel coordinates synergistic collaboration among affiliated companies, vigorously promotes deep integration and synergy across all segments of the industrial chain, and establishes an integrated operational system encompassing resource development, smelting and processing, technology R&D, and product marketing to maximize the strategic synergistic value of the industry of specified metal resources other than iron ore. Concurrently, it continuously strengthens the ESG system construction, exploring more sustainable and responsible development models.



Lesedi 矿山充填试验工作推进会

Progress Meeting on the Backfilling Test Work at Lesedi Mine

践行创新驱动发展战略

加快高水平科技创新自立自强

Implemented the Innovation-driven Development Strategy and Accelerated High-level Scientific and Technological Self-reliance and Strength

中钢集团持续强化科技自立自强核心能力，深耕技术研发与产业升级，全面提速企业智能化转型进程，以创新动能赋能企业高质量长远发展。

Sinosteel continues to strengthen its core capabilities in self-reliance and self-improvement in science and technology, deepen technological research and development and industrial upgrading, comprehensively accelerate the process of intelligent enterprise transformation, and empower its high-quality long-term development with innovative momentum.

聚力科技创新，激活内生动能

Focusing on Scientific and Technological Innovation to Activate Endogenous Momentum

持续完善科技创新管理体系，高质量推进创新平台建设，扎实推进关键核心技术攻关，深化产学研合作，推动技术成果转化，充分激发创新活力。

We have continued to improve our scientific and technological innovation management system, advance the construction of innovation platforms with high quality, solidly promote breakthroughs in key core technologies, deepen industry-university-research cooperation, facilitate the transformation of technological achievements, and fully stimulate innovation vitality.

创新制度体系
Institutional System Innovation

持续健全科技管理制度体系，制定《科技创新重点支持项目管理细则》《科技奖励管理办法》《中钢集团“十五五”科技创新规划》，为企业科技创新活动筑牢制度支撑。

We have continuously improved the system of science and technology management regulations by formulating the *Detailed Rules for the Management of Key Science and Technology Innovation Support Projects,* the *Science and Technology Awards Management Measures,* and the *Sinosteel's 15th Five-Year Plan for Science and Technology Innovation*, thereby establishing a robust institutional foundation for the Company's science and technology innovation activities.



1 月，中钢集团组织召开 2025 年科技项目工作会议，研究部署 2025 年科技项目工作。

In January, Sinosteel convened a meeting on science and technology project work for 2025 to study and arrange related tasks.

创新平台建设
Innovation Platform Development

持续强化科技创新平台建设，统筹整合优质科研力量与创新资源，深耕重点关键领域，稳步推进核心技术攻坚与自主创新升级。中钢矿院成功参与中国安科院主导的国家矿山安全技术创新中心，签订了合作协议。中钢矿院“非煤矿山科技信息服务平台”入选国家级融合创新案例。

We have consistently strengthened the development of science and technology innovation platforms, systematically integrated high-quality scientific research capabilities and innovation resources, deepened efforts in key critical areas, and steadily advanced the tackling of core technologies and the upgrading of independent innovation. Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. successfully joined the National Mine Safety Technology Innovation Center led by the China Academy of Safety Science and Technology (CASS) and signed a cooperation agreement. Additionally, "Non-Coal Mine Science and Technology Information Service Platform" was selected as a national-level integrated innovation case.

推进全国重点实验室建设
Advancing the construction of national key laboratories

所属金属矿山开采安全与灾害防治全国重点实验室与先进耐火材料全国重点实验室成功重组纳入新序列。

The affiliated National Key Laboratories of Safe Mining and Disaster Prevention in Metal Mines and Advanced Refractory Materials were successfully reorganized and incorporated into the updated framework.



先进耐火材料全国重点实验室建设启动会

Kick-off Meeting for the Construction of the National Key Laboratory of Advanced Refractories



金属矿山开采安全与灾害防治全国重点实验室建设启动会

Inaugural Meeting for the Establishment of the National Key Laboratory of Safe Mining and Disaster Prevention in Metal Mines

推进国家产业技术工程化中心优化重组
Advancing the optimization and restructuring of national industrial technology engineering centers

统筹推进“金属矿产资源高效循环利用国家工程研究中心”“耐火材料国家工程研究中心”“炼焦技术国家工程研究中心”优化重组，全力推动平台提质增效。

We have comprehensively promoted the optimization and restructuring of the National Engineering Research Center for Efficient Recycling of Metal Mineral Resources, the National Engineering Research Center for Refractory Materials, and the National Engineering Research Center For Coking Technology, striving to enhance the quality and efficiency of these platforms.

加强中试验证平台管理
Strengthening the management of pilot verification platforms

金属矿产资源综合利用中试验证平台与高温材料中试验证平台成功纳入《中央企业中试验证平台对外开放服务目录（2025 年版）》。

The Pilot Verification Platform for Comprehensive Utilization of Metal Mineral Resources and the Pilot Verification Platform for High-Temperature Materials have been successfully included in the *Central State-Owned Enterprise Pilot Verification Platform Open Service Directory (2025 Edition).*

激发创新活力
Innovation Vitality Stimulation

开展产学研合作
Conducted industry-academia-research collaboration

联合企业、高校组建创新联盟，牵头申报重大科技专项与攻关项目，举办各类学术及技术交流会议，搭建创新平台；依托内部资源优势开展协同，落地多项合作项目，助力技术攻关与产业发展。

Partnered with enterprises and universities to establish innovation alliances, led the application for major scientific and technological projects and key research programs, organized various academic and technical exchange conferences, and built innovation platforms. By leveraging internal resource advantages to conduct synergy, multiple cooperative projects were implemented, boosting technological breakthroughs and industrial development.

创新文化建设
Innovation culture development

依托知识产权周、科技活动周等主题节点，扎实开展专家讲堂、实验室开放、技术交流、科学家精神研学等特色活动，依托线上平台广泛宣传，营造崇尚创新、勇于创新、聚力创新的浓厚文化氛围。

Leveraging key events such as Intellectual Property Week and Science and Technology Activity Week, we have effectively carried out distinctive activities, including expert lectures, laboratory open days, technical exchanges, and research on the spirit of scientists. We have also utilized online platforms for extensive publicity, fostering a strong cultural atmosphere that values, dares to pursue, and collectively drives innovation.

科技成果转化
Transformation of Scientific and Technological Achievements

聚焦国家重大战略需求，积极谋划承担具有战略性、前瞻性的重大科技专项，围绕耐火材料、磁性材料、有机材料、金属制品、矿产资源开发、冶金矿山装备等领域，集中力量开展技术攻坚与工艺优化，取得标志性自主创新成果。

Focusing on the major strategic needs of the nation, we actively plan and undertake significant scientific and technological projects of strategic and forward-looking importance. Concentrating efforts on technological breakthroughs and process optimization in fields such as refractory materials, magnetic materials, organic materials, metal products, mineral resource development, and metallurgical mining equipment, we have achieved landmark independent innovation outcomes.

2025 年 In 2025

在研实施国家级科研项目共
58 项
A total of 58 national-level research projects were under implementation.

获批省部级（行业协会）奖励
36 项

中国宝武技术创新重大成果奖
6 项

A total of 36 awards at the provincial/ministerial level (or from industry associations) and 6 China Baowu Technology Innovation Major Achievement Awards were received.



中钢天源《基于 TRIZ 理论开发新一代磷酸铁锰锂锰系正极材料关键技术》项目团队获 2025 年安徽省创新方法大赛一等奖。

The project team of Sinosteel New Materials Co., Ltd.'s "Key Technology for Developing Next-Generation Lithium Iron Manganese Phosphate Manganese-Based Cathode Materials Based on TRIZ Theory" won the first prize in the 2025 Anhui Provincial Innovation Method Competition.



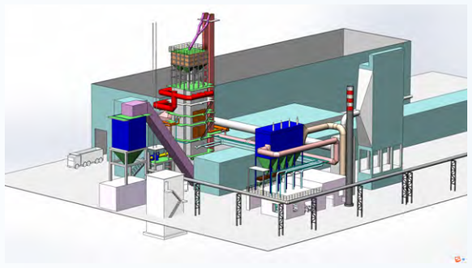
中钢矿院《深部金属矿采动地压响应与主动释压开采关键技术及工程应用》项目获辽宁省科学技术进步奖一等奖。

The project "Key Technology and Engineering Application of Mining-Induced Ground Pressure Response and Active Pressure Release in Deep Metal Mines" by Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. won the first prize of the Liaoning Provincial Science and Technology Progress Award.



中钢热能院研发出具备高精度雾化与超强耐腐蚀性的新型特种雾化喷头，破解 1,300℃强酸性工况难题。

Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. has developed a new type of special atomizing nozzle with high-precision atomization and ultra-strong corrosion resistance, solving the problem of strong acidic conditions at 1,300℃ .



中钢热能院研发出国内首套块粉分离塔式结构，填补国内在高粉化率原料焙烧技术方面的空白。

Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. has developed the first domestic block-powder separation tower structure in China, filling the gap in the roasting technology of high-powdered raw materials.

提速数智转型，焕新发展业态

Accelerating Digital and Intelligent Transformation and Revitalizing New Business Patterns

系统谋划数智化转型，深度推动数智技术与生产经营全场景深度融合。2025 年企业数智化建设专项投入达 1,270.66 万元，为产业转型升级与高质量发展提供坚实数字支撑。

We systematically plan digital and intelligent transformation, and deeply promote the integration of digital and intelligent technology with all scenarios of production and operation. The special investment in corporate digital-intelligent construction reached 12.7066 million yuan in 2025, providing solid digital support for industrial transformation, upgrading, and high-quality development.

数字化赋能 Digital Empowerment

聚力智造升级
Focusing on intelligent manufacturing upgrades

中钢矿院 Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.

凤阳金鹏矿业“非煤矿山重大灾害风险视频智能监控子系统”获评安徽省非煤矿山智能化改造标杆项目。

The "Intelligent Video Monitoring Subsystem for Major Hazard Risks in Non-Coal Mines" at Fengyang Jinpeng Mining was recognized as a benchmark project for intelligent transformation of non-coal mines in Anhui Province.

中钢富全矿业 Sinosteel Shandong Fuquan Mining Co., Ltd.

通过运输自动化升级改造一批数智化项目，提高生产效率、提升本质安全。

Through a series of digital and intelligent projects involving the automation and upgrading of transportation, we have enhanced production efficiency and improved intrinsic safety.

打造智能工厂
Building intelligent factories

制定智能工厂梯度培育细化方案，加快推动所属企业对产线进行智能化升级改造。中钢天源、中钢洛耐所属 3 家工厂达到基础级智能工厂评定，其中环保新型硅质耐火材料智能工厂和复合材料分厂智慧工厂入选宝武集团先进级智能工厂。

A detailed plan for the gradient cultivation of smart factories was formulated, and the intelligent upgrading and transformation of production lines by subordinate enterprises was accelerated. Three factories under Sinosteel New Materials Co., Ltd. and Sinosteel Luonai Materials Technology Corporation achieved the basic-level smart factory rating, among which the Eco-friendly New Silicon-Based Refractory Materials Smart Factory and the Composite Materials Branch Smart Factory were selected as advanced-level smart factories by Baowu Group.

中钢洛耐 5G+ 智慧工厂入选 2025 年河南省 5G 全连接工厂。

Sinosteel Luonai Materials Technology Corporation's 5G+ Smart Factory was selected as a 2025 Henan Province 5G Fully Connected Factory.



人工智能应用
Artificial intelligence applications

积极拥抱人工智能、大模型、智能体等新一代数智化技术，通过技术攻关与创新应用，深度赋能生产经营，推动智能化转型升级，上线智能体 6 个和 AI 应用场景 8 个，显著提升运营效率和决策水平。

Proactively embracing next-generation digital intelligence technologies such as artificial intelligence, large models, and intelligent agents, we have deeply empowered production and operations through technological breakthroughs and innovative applications, driving intelligent transformation and upgrading. We have launched six intelligent agents and eight AI application scenarios, significantly enhancing operational efficiency and decision-making capabilities.

数智化管理 Digital and Intelligent Management

系统推动数据从资源向资产、从静态存管向高效流通、从业务支撑向价值驱动深度转化，全面赋能业务提质增效与智能决策升级，为宝武集团的数字化转型和高质量发展注入强劲数据动能。

The system facilitates the deep transformation of data from a resource to an asset, from static storage and management to efficient circulation, and from business support to value-driven operations. It comprehensively empowers business quality and efficiency improvement as well as intelligent decision-making upgrades, injecting robust data-driven momentum into the digital transformation and high-quality development of China Baowu Steel Group Corporation Limited.

笃行实干

为企业创造优质绩效

Diligence and Concrete Actions Delivered Outstanding Performance for the Enterprise

中钢集团锚定“三新”战略部署，践行“三创四化五策略”高质量发展模式，以党建统领完善现代化国有控股企业治理体系，持续完善治理架构、健全风控合规长效机制，纵深推进体制机制改革，全面提升经营管理效能与核心竞争力，以扎实举措与务实行动为企业创造优质绩效，推动企业持续稳健发展、行稳致远。

Sinosteel is committed to the "New Stage, New Strategy, and New Model" strategic plan, and implements the high-quality development model of "Innovating to Strengthen, Creating Value to Excel, and Venturing to Grow", "High-end, Intelligent, Green, and Efficient Development", and "Focusing on Core Businesses, Driving Integration and Synergy, Unlocking Institutional Vitality, Practicing Operational Management, and Strengthening Risk Prevention and Control". Upholding Party leadership to improve the governance system of a modern state-controlled enterprise, it has continuously optimized the governance structure, established a long-term mechanism for risk control and compliance, and deepened the reform of systems and mechanisms, comprehensively enhancing management efficiency and core competitiveness. It has also taken solid measures and practical actions to achieve high performance, promoting its sustained, steady, and long-term growth.

01



党建强基铸魂

Strengthened the Foundation and Cast the Soul through Party Building



举办庆祝建党 104 周年座谈会暨党委书记讲深入贯彻中央八项规定精神学习教育专题党课。

We held a celebration of the 104th anniversary of the founding of the Party and a symposium, as well as a special party class on the in-depth implementation of the spirit of the Central Eight Provisions by the Secretary of the Party Committee.

加强党的建设

Enhancing Party Building

坚持不懈用党的创新理论凝心铸魂，在学深悟透融会贯通上持续发力，严格落实“第一议题”制度，深化党委理论学习中心组学习，探索形成“自己学＋专题学＋研修学＋带头讲”的“三学一讲”模式，不断提升职工政治素养和理论认同，筑牢思想根基。

We persistently use the Party's innovative theories to fortify ideals and convictions, continuously deepen our understanding, comprehension, and integration of these theories, strictly implement the "First Agenda" system, enhance theoretical learning in Party committees' study groups, explore and establish a "Three Studies and One Lecture" model comprising self-study, thematic study, advanced study, and leading lectures, continuously improve the political literacy and theoretical recognition of employees, and solidify the ideological foundation.

抓实学习教育

案例 CASE

Strengthening Education and Learning

2025 年，中钢集团扎实推动深入贯彻中央八项规定精神学习教育走深走实、见行见效。以“第一议题”形式跟进传达学习习近平总书记重要讲话和指示批示精神 22 次，全级次开展理论学习中心组学习 46 次、读书班 28 次、“三会一课”997 次，分层分类组织警示教育 400 余次。党委书记带头讲授作风建设专题党课，覆盖各级党员领导干部 330 余人，推动严实作风融入日常，为公司稳健运营和可持续发展筑牢作风根基。

In 2025, Sinosteel solidly promoted the study and education on thoroughly implementing the Eight-point Regulation of the CPC Central Committee, ensuring it went deeper, became more practical, and yielded tangible results. Through the "First Agenda" mechanism, 22 sessions were held to follow up on and convey the spirit of General Secretary Xi Jinping's important speeches and instructions, It conducted 46 sessions of theoretical study center group learning, 28 reading classes, and 997 sessions of "Three Meetings and One Lesson" across all organizational levels, and organized over 400 warning education sessions tailored to different tiers and categories. Additionally, the Secretary of the Party Committee took the lead in delivering special Party lectures on work style development, covering more than 330 Party-member leading cadres at all levels, which promoted the integration of a strict and practical work style into daily routines and built a solid foundation of conduct for the company's stable operations and sustainable development.

2025 年 In 2025

“三会一课”

997 次

997 sessions of "Three Meetings and One Lesson"

坚决贯彻新时代党的组织路线和党的建设总要求，持续增强基层党组织政治功能和组织功能，不断提升基层党组织标准化规范化水平。深入落实党建工作责任制，构建齐抓共管大党建格局，深化党建品牌创建工作，持续推进基层党组织标准化规范化建设，切实将党建优势转化为市场开拓优势、产业协同优势和治理效能优势。

We resolutely implement the Party's organizational line and the general requirements for Party building in the new era, continuously enhance the political and organizational functions of primary-level Party organizations, and steadily improve their standardization and normalization. We have thoroughly implemented the responsibility system for Party building, established a comprehensive Party building framework with shared responsibilities, deepened efforts to create distinctive Party building brands, and pressed ahead with the standardized and regularized development of primary-level Party organizations, effectively transforming Party building advantages into strengths in market expansion, industrial synergy, and governance effectiveness.

打造特色党建品牌

案例 CASE

Creating a Distinctive Party Building Brand

中钢集团坚持党建与业务深度融合，以“链上党建”打通协同壁垒、赋能产业链创新链。中钢海外“铬系资源党建赋能示范链”、中钢洛耐“红链融通产学研”项目先后获评中国宝武全面过硬示范链，示范带动 7 家直管企业立足主业构建各具特色的党建赋能链条，切实把组织优势转化为协同创效、攻坚克难的实际成效。

Sinosteel adhered to the deep integration of Party building and business operations, breaking down barriers to synergy and empowering industrial and innovation chains through "Chain-based Party Building". "Chrome Resources Party Building Empowerment Demonstration Chain" project of Sinosteel Overseas Resources Co., Ltd. and "Red Chain Integrating Industry, Academia, and Research" project of Sinosteel Luonai Materials Technology Corporation were successively rated as China Baowu's "All-round Excellent Demonstration Chains". This played a leading demonstration role, guiding 7 directly managed enterprises to build their own distinctive Party building empowerment chains based on their core businesses, effectively translating organizational advantages into tangible results in collaborative benefit creation and overcoming key difficulties.





弘扬“诚信、创新、绿色、协同”价值观，大力推进诚信文化建设，深入开展形势任务教育，全面强化宣传文化赋能引领，提升文化认同，厚植发展沃土，凝聚发展共识。

We promote the core values of "Integrity, Innovation, Green, and Collaboration", vigorously advance the development of an integrity culture, conduct in-depth education on the current situation and tasks, comprehensively strengthen the role of publicity and culture in enabling and guiding, enhanced cultural identity, foster a fertile ground for growth, and consolidate consensus for development.

推进诚信文化建设

案例 CASE

Advancing the Development of an Integrity Culture

中钢集团制定实施年度诚信文化建设方案，组织全员深入学习习近平总书记关于诚信建设的重要论述，举办以“诚信”为主题的经营者研修，从思想源头强化诚信意识。创新载体弘扬新风，组织开展诚信承诺践诺、建设示范点、“诚信文化大声谈”“诚信文化大家创”等主题活动，征集评选文学、书画、短视频等各类诚信主题作品 95 个并进行展播。

Sinosteel has formulated and implemented an annual plan for integrity culture development, organized all employees to thoroughly study General Secretary Xi Jinping's important expositions on integrity building, and held management training sessions with "integrity" as the theme, thereby strengthening the awareness of integrity at the ideological source. Innovative platforms have been employed to promote new trends. We have organized themed activities such as integrity commitment and fulfillment, establishment of demonstration sites, "Integrity Culture Loud Talks", and "Integrity Culture Co-creation". A total of 95 integrity-themed works, including literature, calligraphy and painting, and short videos, have been collected, evaluated, and showcased.







扫一扫，可查看更多中钢诚信文化作品
Scan the QR code to view more Sinosteel integrity culture works

诚信文化主题活动创作作品展示
Showcase of integrity culture themed creative works



中钢集团举办 2025 年度第一期经营者研修。
Sinosteel held the first session of the 2025 Executive Training Program.

全面从严治党

Advancing Full and Strict Governance of the Party

深入推进“廉洁中钢”建设，突出“四聚焦四强化”，扎实推动深入贯彻中央八项规定精神学习教育走深走实，一体推进不敢腐、不能腐、不想腐，营造风清气正良好政治生态。

We advance the development of a "Clean Sinosteel". With a focus on "Four Concentrations and Four Strengthens", we have solidly promoted the thorough implementation of the guiding principles of the CPC Central Committee's eight-point decision, fostering an integrated approach to deter, prevent, and eliminate corruption, thereby creating a healthy and upright political ecosystem.

开展警示教育

案例 CASE

Conducting Warning Education

中钢集团建成首个廉洁文化教育基地，全年召开 2 次中钢集团警示教育大会，对内部查处的典型案例开展通报剖析，用“身边事”教育身边人。2025 年，各级党组织通过案例通报、组织观看警示教育片、组织参观警示教育基地等多种方式开展警示教育活动 1,100 余场次。

Sinosteel has established its first integrity education base, convened two annual warning education conferences to analyze and publicize typical cases of internal violations, using "Cases from Within" to educate its personnel. In 2025, Party organizations at all levels carried out over 1,100 warning education activities through various means such as case notifications, organizing the viewing of warning education films, and arranging visits to warning education bases.

2025 年 In 2025

开展警示教育活动
1,100 余场次
carried out over 1,100 warning education activities



1 月，召开 2025 年党风廉政建设和反腐败工作会议暨警示教育大会。

In January, the 2025 Conference on Party Conduct, Integrity, and Anti-Corruption Work and the Warning Education Meeting were convened.



6 月，召开深入贯彻中央八项规定精神学习教育警示教育会。

In June, the Study, Education, and Warning Meeting on Thoroughly Implementing the Guiding Principles of the CPC Central Committee's Eight-Point Decision was held.



中钢富全矿业建设廉洁文化教育基地并开展纪律教育。

Sinosteel Shandong Fuquan Mining Co., Ltd. conducted the Integrity Culture Education Base and organized Discipline education.

优化治理机制

Optimizing Governance Mechanisms

加强董事会建设

Strengthening Board of Directors Development

不断优化董事会任职、运作、建设工作，确保科学决策与稳健经营得到切实保障。董事会由 6 名董事组成，其中外部董事 3 名、职工董事 1 名。董事会下设战略与投资委员会、审计与风险委员会、薪酬与考核委员会三个专门委员会，为董事会决策提供专业支撑。

We have continuously optimized the appointment, operation, and development of the Board of Directors to ensure the effective safeguarding of scientific decision-making and stable operations. The Board of Directors consists of six directors, including three external directors and one employee director. The Board of Directors has established three specialized committees, the Strategy and Investment Committee, the Audit and Risk Committee, and the Compensation and Evaluation Committee, to provide professional support for its decision-making.

2025 年董事会运行情况 Board of Directors Operations in 2025

召开董事会会议	审议议案	听取专项报告	召开专门委员会会议	审议重点议案
6 次	57 项	2 项	5 次	16 项

We convened six Board meetings, deliberated on 57 proposals, and received two special reports.

Five specialized committee meetings were convened and 16 key proposals were reviewed.

全面风险管理

Comprehensive Risk Management

建立三级风险清单，构建三道防线协同推进机制，细化关键风险预警指标及响应机制。主动识别境外运营风险，防控化解税务风险，提升风险防控能力。

A three-tier risk list has been established, a mechanism for the coordinated advancement of three lines of defense has been constructed, and key risk warning indicators and response mechanisms have been refined. Overseas operational risks were proactively identified, tax risks were prevented and mitigated, and risk prevention and control capabilities were enhanced.

依法合规经营

Lawful and Compliant Operations

健全合规内控

Compliance and Internal Control Enhancement

修订《合规管理制度》，编制《内控合规评估标准》，建立穿透式评估和合规执行检查机制，优化重大决策法律前置审查制度，同步精简、完善制度体系，强化制度执行监督。定期举办法治合规专题会议，分层分类精准培训，逐步提升全体员工法治合规意识。

We have revised the *Compliance Management System*, developed the *Internal Control and Compliance Assessment Standards*, and established a comprehensive assessment and compliance execution inspection mechanism; optimized the pre-review system for legal aspects of major decisions; concurrently streamlined and improved the institutional framework, and strengthened the supervision of system implementation. We have also regularly held thematic meetings on rule of law and compliance, conducted targeted training at different levels and for various categories, and progressively enhanced the awareness of rule of law and compliance among all employees.

2025 年 In 2025

邀请多位北京市知名律师事务所资深律师，围绕公司章程与诉讼案件执行工作等专题进行培训，全系统共计参加

300 余人次

We invited several senior lawyers from renowned law firms in Beijing to conduct training sessions on topics such as corporate articles of association and the execution of litigation cases, with a total of over 300 participants from across the entire system.

保护知识产权

Protecting Intellectual Property Rights

重点加大企业字号权益保障力度，加强战略性新兴产业专利分析及动向监测。 对有效专利进行统计、分析，搭建专利分级管理体系。推进境内外商标续展专项工作，保障“中钢”品牌商标的合法有效延续。

We focus on strengthening the protection of enterprise name rights and enhancing patent analysis and trend monitoring in strategic emerging industries. We have conducted statistics and analysis on valid patents and established a hierarchical patent management system. We have also advanced the special work of trademark renewal both domestically and internationally to ensure the lawful and effective continuation of the "Sinosteel" brand trademark.

截至 2025 年底 As of the end of 2025

有效专利	其中发明专利	授权专利	其中发明专利
4,627 件	1,991 件	586 件	286 件

The number of valid patents was 4,627, including 1,991 invention patents.

A total of 586 patents were granted, including 286 invention patents.


IMSPP-G016IIPMC25-CN-000509-01

基于 ISO 56005 的《创新与知识产权管理能力》等级证书（1 级）

中钢集团鞍山热能研究院有限公司

（地址：辽宁省鞍山市鞍千路301号）

经评价，已通过并达到了《创新管理 - 知识产权管理指南（ISO 56005: 2020）》及相应的《创新与知识产权管理能力分级评价指标体系》相关能力要求，特发此证书。

评价范围：煤焦化资源清洁高效利用及冶金炉窑节能降碳技术服务领域创新过程中的知识产权管理

发证日期：2025-01-22　　有效期至：2028-01-21

查询平台：https://grading.imspp.org.cn

评价机构：方圆标志认证集团有限公司　　（签章）

CQM China Quality Mark


IMSPP-G016IIPMC25-CN-000509-01

Appraisal Certificate for Innovation & Intellectual Property Management Capability (Based on ISO 56005)

This is to certify that

SINOSTEEL ANSHAN RESEARCH INSTITUTE OF THERMO-ENERGY CO., LTD.

(Location: No.301, Anqian Road, Anshan City, Liaoning Province)

has been assessed and found to be in accordance with

Level 1

requirements of ISO 56005: 2020 and Appraisal Indicators for Innovation and Intellectual Property Management Capability

Scope of Appraisal: Intellectual Property Management in the Innovation Process of Clean and High-efficiency Coal Coking Resource Utilization and Energy-conservation and Carbon-reduction Technologies in Metallurgical Furnaces

Date of Issue: 2025-01-22　　Date of Expiry: 2028-01-21

Certificate Inquiry Platform: https://grading.imspp.org.cn

Appraised By: China Quality Mark Certification Group　　(Seal)

CQM China Quality Mark

中钢热能院通过创新与知识产权管理能力分级评价，达到 ISO 56005 标准 1 级水平。

Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. has reached Level 1 in the Innovation and Intellectual Property Management Capability Grading Evaluation, meeting the ISO 56005 standard.



组织知识产权宣传周活动

Organizing Intellectual Property Publicity Week Activities

案例 CASE

4 月，在第 25 个世界知识产权日期间，中钢集团围绕“知识产权与人工智能”主题，组织开展形式多样、内容丰富的宣传周活动。

In April, during the 25th World Intellectual Property Day, Sinosteel organized a diverse and content-rich Publicity Week centered on the theme "Intellectual Property and Artificial Intelligence".



通过云平台、电子屏、内部网站、宣传展板、宣传栏、社交媒体等多种渠道传播知识产权文化理念。

The cultural concepts of intellectual property were disseminated through various channels including cloud platforms, electronic displays, internal websites, promotional display boards, bulletin boards, and social media.

加强合同管理

Strengthening Contract Management

推进合同管理体系变革，在《合规管理办法》中明确合同管理原则，实现总部经济业务合同审批权与签署权分离。对于全级次企业的重大合同，下发《关于所属企业重大合同提级管理的通知》，制定三项定性控制标准和一项定量标准，首次实现对所属企业重大合同的提级管理。

The reform of the contract management system has been advanced, with contract management principles clarified in the *Compliance Management Measures,* achieving the separation of approval authority and signing authority for headquarters economic business contracts. For major contracts of enterprises at all levels, the *Notice on Upgrading Management of Major Contracts of Affiliated Enterprises* has been issued, establishing three qualitative control standards and one quantitative standard, thereby achieving upgraded management of major contracts of affiliated enterprises for the first time.

规范贸易业务管理

Standardized Trade Business Management

聚焦主责主业，持续完善贸易业务监管体系，规范社会贸易型业务品种，压减退出配套销售型业务，加强授信客商、合同执行、物流仓储等重点领域管控，优化贸易业务管理系统，提升贸易风险技防能力，规范贸易业务管理取得积极成效。

We focused on its main responsibilities and core businesses, continuously improved the trade business supervision system, standardized social-trade business varieties, and reduced and withdrew from supporting-sales businesses. The Group strengthened control over key areas such as credited customers, contract execution, and logistics warehousing, optimized the trade business management system, and enhanced technical prevention capabilities for trade risks, achieving positive results in standardizing trade business management.

反不正当竞争

Anti-Unfair Competition

严格遵守反不正当竞争相关法律法规及中国宝武合规要求，坚持公平竞争、诚信经营，坚决抵制商业混淆、虚假宣传、商业贿赂等违法违规情形。将合规管理融入经营各环节，切实筑牢反不正当竞争风险防线。2025 年，公司不存在扰乱市场竞争秩序、损害其他经营者合法权益等不正当竞争行为。

We strictly comply with relevant laws and regulations on anti-unfair competition and China Baowu's compliance requirements, adhere to fair competition and honest operation, and resolutely resist illegal activities such as commercial confusion, false advertising, and commercial bribery. We integrate compliance management into all aspects of operations to effectively strengthen the defense line against risks of unfair competition. In 2025, the Company did not engage in any unfair competition practices that disrupted market competiton order or harmed the legitimate rights and interests of other operators.

规范信息披露

Standardized Information Disclosure

始终秉持真实、准确、完整、及时的原则开展信息披露，切实保障合作方、股东及其他利益相关方的知情权，防范信息不对称引发的合规风险与合作隐患。持续提升信息管理与沟通水平，维护各方合法权益，共建互信共赢的合作环境。

The Company consistently adheres to the principles of truthfulness, accuracy, completeness, and timeliness in information disclosure, effectively safeguarding the right to know of partners, shareholders, and other stakeholders, and mitigating compliance risks and cooperation hazards arising from information asymmetry. The Company continuously enhances information management and communication capabilities to protect the legitimate rights and interests of all parties and foster a cooperative environment built on mutual trust and shared success.

申诉与举报

Complaints and Reporting

畅通举报渠道，设立违反合规管理规定举报电话或邮箱，由法律合规部等相关部门按照职责权限受理违反合规管理事件举报，并就举报事件进行调查和处理，视情节和性质根据相关制度移交相关部门。对造成资产损失或者严重不良后果的，移交责任追究部门。

We cleared reporting channels and established hotlines and email addresses for reporting violations of compliance management regulations. The Legal and Compliance Department, along with other relevant departments, accepted reports on compliance management violations within their scope of authority, investigated and handled the Reported incidents, and transferred them to appropriate departments in accordance with applicable regulations based on the circumstances and nature. Cases that caused asset losses or severe adverse consequences were transferred to the accountability department.

改革提质增效

Deepened Reform to Improve Quality and Efficiency

提升管理效能

Enhancing Management Efficiency

深化改革攻坚，构建适配实体化转型的治理结构，提升组织管理效能。加强海外资产一体化管控，优化总部职能架构，推动集中一贯制管理向基层延伸，以数字化赋能产销管控。

We have deepened reform efforts, established a governance structure compatible with the transformation into a substantive entity, and enhanced organizational management efficiency. We have also enhanced the integrated control of overseas assets, optimized the headquarters' functional structure, extended centralized and consistent management to the grassroots level, and empowered production and sales control through digitalization.



9 月，中国宝武党委书记、董事长胡望明到中钢集团调研，听取中钢集团加入中国宝武以来的改革发展重点工作汇报。

In September, Hu Wangming, Secretary of the Party Committee and Chairman of China Baowu, conducted a research visit to Sinosteel, where he received a report on the key reform and development initiatives undertaken since Sinosteel's integration into China Baowu.

强化整合协同

Strengthening Integration and Synergy

◆ 专业化整合项目加速推进

Accelerated specialized integration projects

宝德利萤石矿项目矿山开拓系统及 35 千伏变电站开工建设，股权整合取得实质性进展；按照中国宝武战略部署，完成境外铁矿资源整合；完成华宝期货股权非公开协议转让华宝投资，收回资金 3.88 亿元。

The mine development system and 35 kV substation of the Sonid Right Banner Baodeli Mining Co., Ltd. Fluorite Mine Project have commenced construction, with substantial progress achieved in equity integration. In accordance with the strategic deployment of China Baowu, the integration of overseas iron ore resources has been completed. We completed the non-public agreement transfer of equity in Hwabao Futures to Hwabao Investment, recovering funds totaling 388 million yuan.

◆ 内部市场协同持续深化

Continuously deepened internal market collaboration

全年协同创效 0.59 亿元，其中主营小金属及新材料产品协同占比达 65%，成为内部协同核心增长点。中钢国贸稳步开展对中钢天源电解锰和磁性原材料以及中钢洛耐铬矿供应。

In 2025, collaborative benefits amounted to 59 million yuan, with collaborative efforts in primary specified metal resources other than iron ore and new materials products accounting for 65%, emerging as the core growth driver for internal synergy. Sinosteel International Trading Co., Ltd. steadily progressed in supplying electrolytic manganese and magnetic raw materials to Sinosteel New Materials Co., Ltd., as well as chrome ore to Sinosteel Luonai Materials Technology Corporation.

◆ 产线基地加大整合

Intensified production line and base integration efforts

中钢天源整合长沙、马鞍山四氧化三锰生产基地，实现在价格体系、客户管理、区域布局上的统一谋划；中钢洛耐整合国家耐火材料质量检验检测中心和洛伊基地技术中心同质化质检业务，以规模化提升运营效率。

Sinosteel New Materials Co., Ltd. have integrated its manganese tetroxide production bases in Changsha and Ma'anshan, achieving unified planning in pricing systems, customer management, and regional layout. Sinosteel Luonai Materials Technology Corporation has integrated the homogenized quality inspection operations of the National Quality Inspection and Testing Center for Refractory Materials and the Luoyi Base Technology Center, enhancing operational efficiency through scale.

推进专项改革

Advancing Specialized Reforms

组织所属“科改企业”完成 2024 年度进展成效评价工作，结合考核结果逐户分析总结经验成效，及时梳理问题和不足，因地制宜推进精准化、差异化改革。制定落实《关于支持鼓励“科改企业”“双百企业”加大改革创新力度的通知》的具体措施，更好发挥“科改企业”的引领示范和突破带动作用。

Sinosteel has completed the 2024 progress and effectiveness evaluation for our affiliated "Science and Technology Reform Enterprises". Based on the assessment results, it has conducted individual analyses to summarize successful experiences and promptly identified issues and shortcomings, promoting targeted and differentiated reforms tailored to local conditions. We have formulated and implemented specific measures for the *Notice on Supporting and Encouraging "Sci-tech Reform Enterprises" and "Double Hundred Enterprises" to Increase Reform and Innovation Efforts*, in order to better leverage the leading, exemplary, breakthrough, and driving roles of "Sci-tech Reform Enterprises".

2025 年 In 2025

共有高新技术企业

17 家

There were 17 high-tech enterprises in total.

中钢天源荣获

“安徽省优秀创新型企业”

Sinosteel New Materials Co., Ltd. was awarded the title of "Outstanding Innovative Enterprise in Anhui Province".

中钢洛耐院荣获

“河南省创新龙头企业”

中钢洛耐荣获

“2025-2026 年度钢铁工业用耐火材料优秀企业”

The subsidiary research institute of Sinosteel Luonai Materials Technology Corporation was awarded the title of "Henan Provincial Innovation Leading Enterprise", and Sinosteel Luonai Materials Technology Corporation was honored as the "2025-2026 Excellent Enterprise for Refractory Materials in the Steel Industry".

绿动未来

为环境绘就绿色画卷

Green Initiatives Powered the Future and Painted a Green Landscape for the Environment

中钢集团牢固树立和积极践行“绿水青山就是金山银山”理念，贯彻落实美丽中国建设、污染防治攻坚及流域高质量发展等国家战略，通过健全环境管控体系、深化污染源头治理、推进节能降碳改造、打造绿色矿山标杆，推动资源开发与生态保护协同发展，以系统性、全链条的绿色行动，绘就人与自然和谐共生的高质量发展画卷。

Sinosteel firmly upholds and actively practices the concept that "lucid waters and lush mountains are invaluable assets". It implements national strategies such as building a beautiful China, tackling pollution, and promoting high-quality development in river basins. By improving the environmental management and control system, deepening pollution source treatment, advancing energy-saving and carbon reduction upgrades, and establishing green mining benchmarks, Sinosteel promotes the coordinated development of resource exploitation and ecological protection. Through systematic and full-chain green actions, it paints a high-quality development landscape where humanity and nature coexist in harmony.



强化环境管理

Strengthening Environmental Management

环境管理体系 ›

Environmental Management System

制订《环境保护事件问责管理办法》，建立能源环保考核体系，制定年度能源环保工作要点，与所属企业签订能源环保目标责任书，开展年终评定。落实环境管理体系建设，共有 20 家法人单位通过 ISO 14001 环境管理体系认证。每季度召开能源环保绿色低碳工作例会，定期开展国家政策法律法规学习宣贯。

We have formulated the *Management Measures for Accountability in Environmental Protection Incidents*, established an energy and environmental protection assessment system, developed annual key points for energy and environmental protection work, signed energy and environmental protection target responsibility agreements with affiliated enterprises, and conducted year-end evaluations. We have implemented the environmental management system, with a total of 20 legal entities having obtained ISO 14001 environmental management system certification. We hold quarterly meetings on energy, environmental protection, and green low-carbon initiatives, and regularly conduct learning and promotion activities for national policies, laws, and regulations.



中钢集团召开 2025 年安全生产、能源环保及绿色低碳工作会议。
Sinosteel held the 2025 Work Conference on Work Safety, Energy and Environmental Protection, and Green Low-Carbon Development.



部分子公司 ISO 14001 环境管理体系认证证书
ISO 14001 Environmental Management System Certification Certificates for some subsidiaries

严守环保合规要求，落实全面整改措施

案例 CASE

Strictly Adhering to Environmental Compliance Requirements and Implementing Comprehensive Rectification Measures

4 月，广州市番禺中钢金属制品厂因污染物排放不符合排污许可证规定受到广州市生态环境局行政处罚。该厂第一时间开展全面整改，完成雨水管道架空改造与双层防渗漏处理，生产废水全部收集回用。整改工程已通过生态环境部门联合验收，实现废水零排放，合规稳定运营。

In April, Sinosteel Metal Products Factory in Panyu, Guangzhou, received an administrative penalty from the Guangzhou Municipal Ecological Environment Bureau for pollutant emissions that did not comply with the stipulations of its pollutant discharge permit. The factory promptly initiated comprehensive rectification, completing the overhead reconstruction of rainwater pipelines and implementing double-layer anti-leakage treatment, with all production wastewater being collected and reused. The rectification project has passed the joint acceptance inspection by the ecological environment authorities, achieving zero wastewater discharge and ensuring compliant and stable operation.

污染防治攻坚 ›

Pollution Prevention and Control

废气治理 Waste Gas Treatment

持续强化对无组织颗粒物管控，多家矿山企业升级改造破碎筛分车间除尘系统，各单位通过安装固定式干雾抑尘装置、覆盖土工布、道路洒水、无组织排放监控等措施，有效避免二次扬尘污染。中钢热能院、中钢制品院、中唯公司、中钢洛耐新建废气处理设施，实现废气达标排放。

Continuous efforts have been made to strengthen the control of fugitive particulate matter. Multiple mining enterprises have upgraded the dust removal systems in their crushing and screening workshops. Various units have effectively prevented secondary dust pollution by installing fixed dry mist dust suppression devices, covering geotextile fabrics, conducting road sprinkling, and implementing fugitive emission monitoring measures. Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd., Sinosteel Zhengzhou Research Institute of Steel Wire Products Co., Ltd., Zhongwei National Engineering Research Center For Coking Technology Co., Ltd., and Sinosteel Luonai Materials Technology Corporation have built new waste gas treatment facilities to ensure that emissions meet the required standards.

中钢洛耐 Sinosteel Luonai Materials Technology Corporation

对工业炉窑烟气进行高温焚烧、SCR 脱硝等治理，采取低氮燃烧、控制空燃比等措施，从源头减少二氧化硫和氮氧化物等污染物的产生。2025 年，二氧化硫排放总量 19.35 吨，氮氧化物排放总量 29.75 吨，同比下降 23.32% 和 32.92%。

It implements high-temperature incineration and SCR denitrification for industrial kiln flue gas and adopts measures such as low-nitrogen combustion and air-fuel ratio control to reduce the generation of pollutants like sulfur dioxide and nitrogen oxides from the source. In 2025, the total sulfur dioxide emissions were 19.35 tons, and the total nitrogen oxide emissions were 29.75 tons, representing year-on-year decreases of 23.32% and 32.92%, respectively.

中钢热能院 Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd.

正式投用 VOC 处理装置，有效控制挥发性有机化合物。

It has officially commissioned a VOC treatment facility to effectively control volatile organic compounds.



中钢热能院经开区厂区 VOC 处理装置
VOC treatment facility at the Economic Development Zone plant of Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd.

废水治理 Wastewater Management

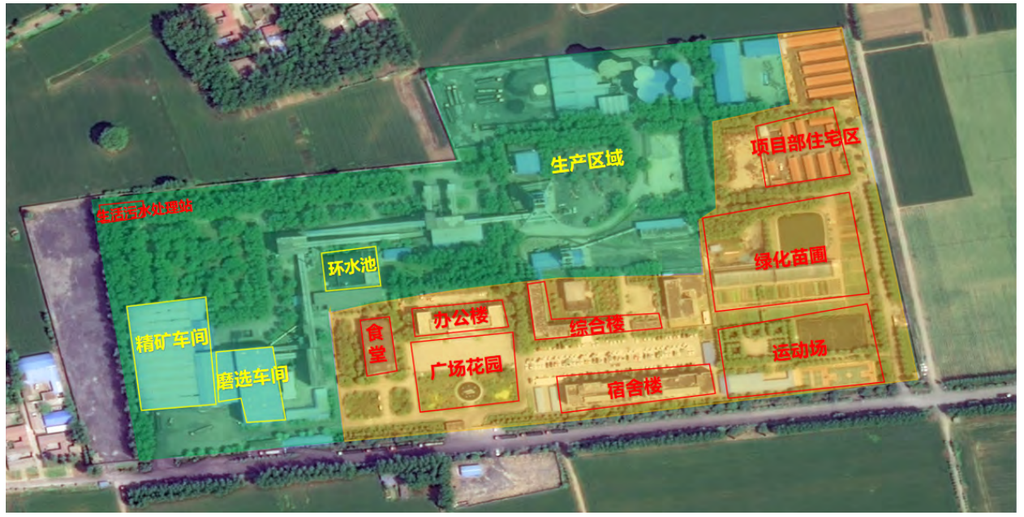
持续强化废水综合治理，完善治污设施运维，推进雨污分流、水资源循环回用与初期雨水收集，不断提升废水管控与资源化利用水平。

We have continuously strengthened comprehensive wastewater treatment, improved the operation and maintenance of pollution control facilities, advanced the separation of rainwater and sewage, promoted the recycling of water resources and the collection of initial rainwater, and consistently enhanced the level of wastewater control and resource utilization.

中钢富全矿业 Sinosteel Shandong Fuquan Mining Co., Ltd.

建成有效容积 1,840 立方米的初期雨水收集系统，可收集处理 72,000 平方米生产区域前 15 毫米初期降雨。

An initial rainwater collection system with an effective capacity of 1,840 cubic meters has been constructed. It can collect and treat the first 15 millimeters of rainfall from a 72,000-square-meter production area.



中钢富全矿业雨污分流改造项目
Rainwater and Sewage Diversion Renovation Project of Sinosteel Shandong Fuquan Mining Co., Ltd.

中钢赤峰矿业 Sinosteel Chifeng Jinxin Mining Co., Ltd.

采用 2 台浓密机布矿运行，增加浓密池溢流水产出量，减少隔膜泵输送矿浆量 108 万立方米 / 年，增加系统回水用量 59.4 万立方米 / 年。

Two thickeners have been deployed for ore distribution, increasing overflow water output from the thickener tanks, reducing slurry transport volume by diaphragm pumps by 1.08 million cubic meters per year, and increasing system reclaimed water usage by 594,000 cubic meters per year.

固废管理 Solid Waste Management

严格落实固废管理，以“无废细胞”建设为抓手，持续完善固体废物收集、分类、处置及循环利用，全面提升固废精细化管控与资源化利用水平。截至 2025 年底，4 家法人单位获得当地“无废细胞”；中钢天源及中钢天源安徽智能装备股份分别荣获 2025 年度市级“无废工厂”称号；中钢洛耐新材料公司荣获市级“无废工厂”。

Solid waste management has been strictly implemented, with the construction of "Zero-Waste Cells" as a key initiative, continuously improving the collection, classification, disposal, and recycling of solid waste, and comprehensively enhancing the refined management and resource utilization of solid waste. By the end of 2025, four corporate entities had been recognized as local "Zero-Waste Cells"; Sinosteel New Materials Co., Ltd. and Sinosteel Tianyuan Anhui Intelligent Equipment Co., Ltd. were awarded the municipal-level "Zero-Waste Factory" title for 2025, and Sinosteel Luonai Materials Technology Corporation New Materials Co., Ltd. received the municipal-level "Zero-Waste Factory" designation.

矿区噪声治理 Noise Control in Mining Areas

聚焦矿区噪声治理，通过技术改造与空间布局优化降低噪音影响，以源头防控、常态化监管筑牢声环境保护屏障。

Focusing on noise control in mining areas, the impact of noise is reduced through technological upgrades and spatial layout optimization, with source prevention and routine supervision strengthening the protective barrier for acoustic environmental protection.

中钢山东矿业 Sinosteel Shandong Mining Co., Ltd.

通过采用低噪声设备、加装消音隔声设施等方式实现源头降噪，并将选矿高噪声设备布置于密闭厂房。执行季度厂界噪声监测机制，厂区厂界昼夜噪声均达标，有效守护区域声环境与周边居民权益。

Noise reduction at the source is achieved by employing low-noise equipment, installing noise reduction and sound insulation facilities, and arranging high-noise mineral processing equipment within enclosed workshops. A quarterly boundary noise monitoring mechanism is implemented, with both daytime and nighttime noise levels at the plant boundary meeting standards, effectively safeguarding the regional acoustic environment and the rights of surrounding residents.

环保风险管控 ›

Environmental Risk Management and Control

健全环保风险管控体系，抓实应急管理、督查整改与项目环保审查，全方位防范化解环境风险。

We have improved the environmental risk management and control system by rigorously implementing emergency management, supervision and rectification, and environmental review of projects to comprehensively prevent and mitigate environmental risks.

突发风险管理 Emergency risk management

制订《环保事件管理办法（重大突发环境事件应急预案）》，推动所属各企业结合自身实际编制应急预案，定期组织开展应急演练，强化应急处置能力。

The *Environmental Incident Management Measures (Emergency Response Plan for Major Environmental Incidents)* has been formulated, promoting affiliated enterprises to develop emergency response plans tailored to their specific circumstances. Emergency drills are regularly organized to enhance emergency response capabilities.

环保督察整改 Environmental inspection and rectification

每年度对所属企业开展环保专项督查，压实环保管理责任，筑牢环保安全防线。

Annual special environmental inspections are conducted for affiliated enterprises to reinforce environmental management responsibilities and strengthen the environmental safety defense line.

新建项目环境评估 Environmental assessment of new projects

分别对宝德利巴彦敖包萤石矿年产 30 万吨采选工程改扩建项目、中钢矿业丰宁万隆大道沟门萤石采矿工程建设项目、中钢矿院年产 200 吨碳气凝胶产线扩建项目、中钢矿院年产 300 吨碳气凝胶新材料建设项目及中钢洛耐产线改造、武汉耐材资产整合、中钢洛耐年产 3,000 吨高端连铸三大件等项目可行性研究报告和初步设计开展能源环保审查。

The energy and environmental review have been conducted on the feasibility study reports and preliminary designs for the following projects: the expansion and renovation of the Sonid Right Banner Baodeli Mining Co., Ltd. Bayan Aobao Fluorite Mine's annual 300,000-ton mining and processing project; the construction of the Sinosteel Mining Fengning Wanlong Dadaogoumen Fluorite Mining Project; the Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.'s annual 200-ton carbon aerogel production line expansion project and annual 300-ton carbon aerogel new material construction project; production line upgrading of Sinosteel Luonai Materials Technology Corporation Refractory Material Factory; the asset integration of Wugang Refractories Co., Ltd.; and Sinosteel Luonai Materials Technology Corporation's annual 3,000-ton high-end continuous casting three-piece set project.



推进节能降碳

Advancing Energy Conservation and Emission Reduction

应对气候变化

Addressing Climate Change

围绕“双碳”目标健全管理机制，依托技术研发、节能技改深挖降碳潜力，同步布局绿色环保业务，多维度推进气候治理与低碳转型。

We have improved the management mechanism centered on the "dual carbon" goals, tapped the potential for carbon reduction through technological R&D and energy-saving technological transformation, developed green and environmental protection businesses simultaneously, and advanced climate governance and low-carbon transition in multiple aspects.

气候应对管理 Climate Response Management

积极响应国家及宝武集团“双碳”战略，设立碳中和办公室与碳中和推进委员会，修订出台《碳达峰碳中和管理办法》，明确碳达峰碳中和工作路径与管理规范。

We have actively responded to the "dual carbon" strategy of the state and China Baowu Steel Group Corporation Limited, established the Carbon Neutrality Office and Carbon Neutrality Promotion Committee, and revised and issued the *Carbon Peaking and Carbon Neutrality Management Measures* to clarify the work path and management standards for carbon peaking and carbon neutrality.

低碳技术研发 Low-Carbon Technology R&D

中钢洛耐
Sinosteel Luonai Materials Technology Corporation

构建全球首个专用于氢冶金领域耐火材料服役行为模拟的试验评价平台，项目成果成功应用于宝钢湛江百万吨级氢基竖炉项目及 Tosyali 阿尔及利亚公司 250 万吨 DRI 项目。

A world's first experimental evaluation platform dedicated to simulating the service behavior of refractory materials in the hydrogen metallurgy field was built. The project outcomes were successfully applied to Baosteel Zhanjiang's million-ton hydrogen-based shaft furnace project and Tosyali Algeria's 2.5 million-ton DRI project.

中钢洛耐发布氮化物结合碳化硅系列产品 EPD 报告 案例 CASE

Sinosteel Luonai Materials Technology Corporation Released the EPD Report for Nitride-Bonded Silicon Carbide Series Products

6 月，中钢洛耐氮化物结合碳化硅系列产品的环境产品声明（EPD）在中国钢铁行业全产业链 EPD 平台上成功发布，标志着中钢洛耐氮化物结合碳化硅系列产品正式完成全生命周期的环境绩效评价，在环境透明度与可持续发展方面取得新突破。

In June, the Environmental Product Declaration (EPD) for the nitride-bonded silicon carbide series products of Sinosteel Luonai Materials Technology Corporation was successfully published on the China Steel Industry Full Industry Chain EPD Platform, marking the formal completion of the full lifecycle environmental performance evaluation for these products and signifying a new breakthrough in environmental transparency and sustainable development.





中钢热能院
Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd.

成功研发出具备高精度雾化与超强耐腐蚀性的新型特种雾化喷头。相关成果荣获中国钢铁工业协会、中国金属学会冶金科学技术奖以及辽宁省科学技术进步奖。

The institute has successfully developed a new type of special atomizing nozzle with high-precision atomization and superior corrosion resistance. The related achievements have been awarded the Metallurgical Science and Technology Prize by the China Iron and Steel Association and the Chinese Society for Metals, as well as the Liaoning Provincial Science and Technology Progress Award.

节能技改升级 Energy-Saving Technology Upgrades

中钢矿业 Sinosteel Mining Development Co., Ltd.

完成全部落后机电设备淘汰工作，工业锅炉平均运行热效率达 99%。

The company has completed the phase-out of all outdated electromechanical equipment, with the average operating thermal efficiency of industrial boilers reaching 99%.

中钢天源 Sinosteel New Materials Co., Ltd.

中钢制品院检测中心新检测大楼项目采用自动化、智能化控制，精确管理能源消耗，减少能源浪费；各生产车间逐步推行精益化管理，提升管理水平和生产效率。

The new testing building project of the Testing Center of Sinosteel Zhengzhou Research Institute of Steel Wire Products Co., Ltd. adopted automated and intelligent control to precisely manage energy consumption and reduce energy waste. All production workshops are gradually implementing lean management to enhance management levels and production efficiency.

发展绿色产业 Development of Green Industries

中钢矿院 Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.

安环所承接当涂县龙华生活垃圾填埋场治理工程，实现环保工程业务新突破；晟沃公司积极拓展固废处置新场景，新签首创自来水厂污泥处置、铁矿尾砂处置等多项合同。

The Environmental Protection and Safety Department has undertaken the Longhua Domestic Waste Landfill Treatment Project in Dangtu County, achieving a new breakthrough in environmental protection engineering business. Shengwo Company has actively expanded new scenarios for solid waste disposal, securing multiple contracts, including the Shouchuang Water Plant Sludge Disposal and Iron Ore Tailings Disposal projects.



中钢矿院成功中标“当涂县龙华生活垃圾填埋场地下水污染防控与综合治理工程”。
Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. has successfully won the bid for the "Groundwater Pollution Prevention, Control, and Comprehensive Treatment Project for the Longhua Domestic Waste Landfill in Dangtu County".

资源节约与高效利用 Resource Conservation and Efficient Utilization

健全能源管理制度，积极拓展绿电、光伏、风电等清洁能源，多措并举推进物料回收、工艺优化与循环利用，实现节能降耗与资源高效利用。

We have improved the energy management system, actively expanded the use of clean energy such as green electricity, photovoltaic, and wind power, and promoted material recycling, process optimization, and circular utilization through multiple measures to achieve energy conservation, consumption reduction, and efficient resource utilization.

能源管理体系建设 Energy Management System Development

设立能源环保管理委员会，制定《能源环保管理办法》，夯实制度管理根基；推进能源管理体系认证，以体系规范化运行持续优化用能结构、提升能源利用效率。

An Energy and Environmental Protection Management Committee has been established, and the *Energy and Environmental Protection Management Measures* have been formulated to strengthen the foundation of institutional management. We have promoted the certification of the energy management system, continuously optimizing the energy consumption structure and improving energy utilization efficiency through standardized system operation.



中钢山东矿业能源体系认证证书
Energy System Certification Certificate of Sinosteel Shandong Mining Co., Ltd.

能源结构优化 Energy Structure Optimization

中钢矿业
Sinosteel Mining Development Co., Ltd.

加大对绿电的采购力度，积极推进能源结构优化。全年全系统共外购绿电 909.35 万千瓦时，同比增加 23%。

The company has increased the procurement of green electricity and actively promoted the optimization of the energy structure. Throughout the year, the entire system purchased a total of 9,093,500 kWh of green electricity externally, representing a 23% year-on-year increase.



中钢矿业部分绿电购买证书
Some green electricity purchase certificates of Sinosteel Mining Development Co., Ltd.

中钢天源
Sinosteel New Materials Co., Ltd.

有序推进所属各单位光伏项目，光伏发电与绿电采购成效显著。2025 年，马鞍山区域所属企业累计发电 782.5 万千瓦时，中钢制品院累计发电 677 万千瓦时，购买绿电 2,364.4 万千瓦时，绿电占比 34.35%。

The company has systematically advanced photovoltaic projects across all subordinate units, achieving significant results in photovoltaic power generation and green electricity procurement. In 2025, enterprises in the Ma'anshan region cumulatively generated 7,825,000 kWh, Sinosteel Zhengzhou Research Institute of Steel Wire Products Co., Ltd. cumulatively generated 6,770,000 kWh, and purchased 23,644,000 kWh of green electricity, resulting in a green electricity proportion of 34.35%.

中钢赤峰矿业
Sinosteel Chifeng Jinxin Mining Co., Ltd.

与赤峰市松山区政府签订新能源项目合作协议，建立自发自用风力发电，实现绿色能源供应与经济效益共赢，推动区域清洁能源产业发展。

The company has signed a cooperation agreement with the Songshan District Government of Chifeng City for a new energy project, establishing self-generated and self-consumed wind power generation. This initiative has achieved a win-win situation for green energy supply and economic benefits, promoting the development of the regional clean energy industry.

发展循环经济 Developing a Circular Economy

中钢洛耐
Sinosteel Luonai Materials Technology Corporation

严控包装辅材消耗，通过优化尺寸、余料回收、定制化包装及废旧托盘、吨包袋循环复用等措施，从源头降低消耗，有效降本增效。2025 年，合计回收产品 10,742.6 吨，回收量占销售出库产品的 3.48%。

Consumption of packaging auxiliary materials was strictly controlled. By optimizing dimensions, recovering leftover materials, adopting customized packaging, and recycling used pallets and ton bags, consumption was reduced at the source, effectively lowering costs and improving efficiency. In 2025, a total of 10,742.6 tons of products were recovered, accounting for 3.48% of total products shipped from inventory.

中钢矿院
Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.

通过优化炉温曲线、调整进料配比等工艺攻关，实现玻璃微珠回收再利用；采用厂房利旧、优化扩容的方式，实现土地资源高效合理利用；健全选矿管控体系，开展选矿工艺试验与技术攻关，提升有价矿物回收率。

Through process improvements such as optimizing furnace temperature curves and adjusting feed ratios, the recycling and reuse of glass microspheres have been achieved. By utilizing existing factory buildings and optimizing expansion, efficient and rational utilization of land resources has been realized. The mineral processing management and control system has been enhanced, mineral processing process tests and technical breakthroughs have been conducted to increase the recovery rate of valuable minerals.

守护绿色生态

Safeguarding the Green Ecology

深耕流域保护

Deeply Cultivated River Basin Protection

制定《中国中钢集团有限公司长江黄河流域生态环境保护总体规划》，对重点流域所属企业相关指标作出要求。聚焦黄河流域生态治理目标，大力推进厂区绿化工作；优先选用本地适生树种，着力为鸟类、昆虫等营造适宜栖息环境。2025 年，中钢洛耐新增绿地 2 万余平方米，补种草坪 4,800 余平方米，移栽女贞、桂花等苗木 560 余棵、石楠 630 余株。

We have formulated the *Overall Plan for Ecological Environmental Protection in the Yangtze River and Yellow River Basins of Sinosteel Group Corporation Limited*, establishing relevant indicator requirements for enterprises located in key river basins. Focusing on the ecological management objectives of the Yellow River Basin, we have vigorously advanced greening efforts within factory premises. We prioritize the selection of locally adapted tree species, striving to create suitable habitats for birds, insects, and other organisms. In 2025, Sinosteel Luonai Materials Technology Corporation added over 20,000 square meters of green space, replanted more than 4,800 square meters of lawn, and transplanted over 560 trees and shrubs, including privet and osmanthus, as well as over 630 photinia plants.

2025 年 In 2025

中钢洛耐新增绿地

2 万余平方米

Sinosteel Luonai Materials Technology Corporation added over 20,000 square meters of green space

补种草坪

4,800 余平方米

replanted more than 4,800 square meters of lawn

落实生态补偿

Implementing Ecological Compensation

立足生态保护要求，建立系统化生态修复管护机制，统筹水土治理与长效运维，筑牢生态安全屏障。

Based on the requirements of ecological protection, a systematic ecological restoration and management mechanism has been established, integrating soil and water management with long-term operation and maintenance, thereby strengthening the ecological security barrier.

中钢矿院
Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.

构建“源头减损—过程管控—修复巩固—长效管护”全链条工作体系，通过分区管控源头减损、精准治理受损水土、近自然生态修复、搭建监测体系长效管护，持续巩固治理成效。

A comprehensive work system encompassing the entire chain of "source reduction–process control–restoration and consolidation–long-term management" has been constructed. The effectiveness of governance has been continuously consolidated through zonal control for source reduction, precise treatment of damaged soil and water, near-natural ecological restoration, and the establishment of a monitoring system for long-term management.



绿色矿山建设

Green Mine Construction

积极开展绿色矿山创建工作，系统开展污染防控与生态修复，高标准打造绿色矿山，实现矿产开发与生态保护协同发展。截至 2025 年底，中钢富全矿业入选国家绿色矿山名录，中钢山东矿业和中钢刘塘坊矿业被评为省级绿色矿山。

We have actively promoted the establishment of green mines, systematically implemented pollution prevention and ecological restoration, and created high-standard green mines to achieve coordinated development of mineral exploitation and ecological protection. By the end of 2025, Sinosteel Shandong Fuquan Mining Co., Ltd. was included in the National Green Mine Directory, while Sinosteel Shandong Mining Co., Ltd. and Sinosteel Anhui Liutangfang Mining Co., Ltd. were recognized as provincial-level green mines.

中钢富全矿业

Sinosteel Shandong Fuquan Mining Co., Ltd.

推进“无废矿山”建设，加强尾砂、废石分类资源化处置，实现固体废物零排放。建成水资源闭环利用系统，实现水资源的高效回收与零排放。采用微孔膜过滤技术、加装喷淋洒水装置，显著降低粉尘排放。

The company has advanced the construction of a "zero-waste mine" and strengthened the classified resource utilization of tailings and waste rock, achieving zero discharge of solid waste. It has established a closed-loop water resource utilization system, achieving efficient water resource recovery and zero discharge. It has also adopted microporous membrane filtration technology and installed spray sprinkler systems, which significantly reduce dust emissions.

中钢赤峰矿业

Sinosteel Chifeng Jinxin Mining Co., Ltd.

常态化推进矿区损毁土地复垦与地质环境综合治理，对闭坑停用地块及时开展土地平整、植被复绿；待矿山开采期满后，依规拆除责任区建构筑物与生产设备，实施全域土地复垦，统筹矿产有序开发与矿区生态修复。

The company has normalized the reclamation of damaged land and comprehensive geological environment management in mining areas. For closed and discontinued sites, land leveling and vegetation restoration have been promptly carried out. Upon the expiration of mining operations, all structures and production equipment within the designated responsibility area will be dismantled in accordance with regulations, followed by comprehensive land reclamation across the entire area, thereby balancing orderly mineral development with ecological restoration in mining regions.

厚植绿色文化

Cultivating a Green Culture

开展绿色宣贯

Conducting Green Awareness Campaigns

积极组织“2025 年中钢集团安全能环管理与实践培训班”等专业安全能环管理培训、开展“极致低碳”劳动竞赛、组织全国节能宣传周和全国低碳日等多主题环保宣传活动，以培训赋能、竞赛促学、科普宣教夯实全员节能环保意识。

We have proactively organized specialized safety and environmental management training sessions, such as the "2025 Sinosteel Safety and Environmental Management and Practice Training Program", and launched multi-themed environmental protection awareness campaigns, including the "Ultimate Low-Carbon" labor competition and the National Energy Conservation Publicity Week and National Low-Carbon Day, to enhance employees' energy conservation and environmental awareness through training empowerment, competition-driven learning, and public education.

践行绿色办公

Practicing Green Office

将绿色低碳理念深度融入日常运营全流程，多措并举节约用纸，推广无纸化办公、落实双面打印及废纸回收；从严管控用电，合理使用照明、空调与办公设备，减少能耗；积极践行绿色出行，全面营造低碳节约的办公氛围，持续夯实绿色运营根基。

We integrate the concept of green and low-carbon practices deeply into the entire process of daily operations. Multiple measures have been implemented to conserve paper usage, promote paperless office practices, enforce double-sided printing, and recycle waste paper. Electricity consumption is strictly controlled through the rational use of lighting, air conditioning, and office equipment to reduce energy consumption. Green travel is actively practiced, comprehensively fostering a low-carbon and resource-conserving office environment, thereby continuously solidifying the foundation for green operations.

聚才育英

03

为员工搭建发展舞台

The Gathering and Nurturing of Talents Built a Stage for Employee Development

中钢集团坚持以人为本、安全为本，健全完善员工权益保障与民主管理机制，持续优化薪酬福利、健康防护等基础保障。聚焦人才梯队建设，畅通成长晋升路径；丰富人文关怀举措，提升员工幸福指数；常态化筑牢安全生产屏障，实现安全发展与员工福祉双向提升。

Sinosteel adheres to a people-oriented and safety-first approach. It has continuously improved mechanisms for safeguarding employee rights and democratic management, while optimizing fundamental protections such as compensation, benefits, and health safeguards. It focuses on talent echelon development and smoothens career advancement paths; enriches humanistic care measures to enhance employee well-being; and consistently reinforces workplace safety barriers to achieve dual improvements in both safety development and employee welfare.

回应可持续发展目标
Our Response to the SDGs

保障员工权益

Protected the Rights and Interests of Employees

平等雇佣

Equal Employment

严格恪守国际劳工标准与国家劳动法律法规，坚决杜绝强制劳动、使用童工、骚扰、霸凌及恐吓等不当行为。坚持公开透明招聘，为不同性别、种族、国籍与文化背景的员工搭建公平竞争舞台。通过多元招聘渠道广纳人才，招聘时同等条件下优先吸纳本地劳动力。2025 年，中钢集团员工总数为 22,214 人，其中海外企业外籍员工 7,626 人。全员劳动生产率同比提升 25.53%，人事效率同比提升 11.1%。

We strictly adhere to international labor standards and national labor laws and regulations and resolutely prohibit improper practices such as forced labor, child labor, harassment, bullying, and intimidation. We uphold open and transparent recruitment, providing a fair competitive platform for employees of different genders, races, nationalities, and cultural backgrounds. We attract talent through diverse recruitment channels and prioritize local workforce hiring when conditions are equal. In 2025, Sinosteel had a total of 22,214 employees, including 7,626 foreign employees in overseas enterprises. The overall labor productivity increased by 25.53% year-on-year, and personnel efficiency improved by 11.1% year-on-year.

2025 年 In 2025

中钢集团员工总数

22,214 人

Sinosteel had a total of 22,214 employees



萨曼可铬业员工团建活动

Team-Building Activity of Samancor Chrome Limited

薪酬福利

Compensation and Benefits

建立包括现金报酬、补充福利、荣誉奖励等多元保障的市场化薪酬福利体系，薪酬分配以员工业绩贡献、个人能力为核心，依托客观评价保证内部公平。强化绩效导向，资源重点向核心骨干和基层一线岗位倾斜。保障员工带薪休假，除带薪年假、女性产假外，不断完善男性员工陪护假、独生子女看护假及独生子女父母护理假等权益。2025 年，劳动合同签订率和社会保险覆盖率达 100%。

We have established a market-oriented compensation and benefits system that includes diverse guarantees such as cash remuneration, supplementary benefits, and honorary awards. Salary distribution is determined by employees' performance contributions and personal capabilities, with objective evaluations ensuring internal fairness. We also strengthen performance orientation, prioritizing resources toward core backbone personnel and frontline positions at the grassroots level. We guarantee employees' paid leave, and continuously improve rights and benefits such as male employees' paternity leave, only-child care leave, and only-child parents' nursing leave, in addition to paid annual leave and maternity leave for female employees. In 2025, the labor contract signing rate and social insurance coverage rate reached 100%.

2025 年 In 2025

劳动合同签订率
社会保险覆盖率

100 %

the labor contract signing rate and social insurance coverage rate reached 100%

民主管理

Democratic Management

深化民主管理，规范职代会制度，推进厂务公开，多渠道倾听职工诉求，畅通沟通渠道。健全劳动争议预防与调处机制，通过合规培训、民主协商、法律援助等方式，化解潜在劳资矛盾，维护和谐稳定的劳动关系。2025 年，召开各级职代会及联席会议 40 余次，审议通过涉及职工切身利益的重大事项 60 余项。未发生重大劳动争议案件。

We deepen democratic management, standardize the workers' congress system, promote the disclosure of factory affairs, and listen to employees' demands through multiple channels, thus ensuring smooth communication channels. We have improved the mechanism for preventing and mediating labor disputes, and resolved potential labor-management conflicts through compliance training, democratic consultation, legal assistance, and other means, thereby maintaining a harmonious and stable labor relationship. In 2025, over 40 workers' congresses and joint meetings at various levels were convened, during which more than 60 major matters concerning the vital interests of employees were deliberated on and approved. No significant labor dispute cases occurred.

2025 年 In 2025

召开各级职代会及联席会议

40 余次

over 40 workers' congresses and joint meetings at various levels were convened

审议通过涉及职工切身利益的重大事项

60 余项

more than 60 major matters concerning the vital interests of employees were deliberated on and approved



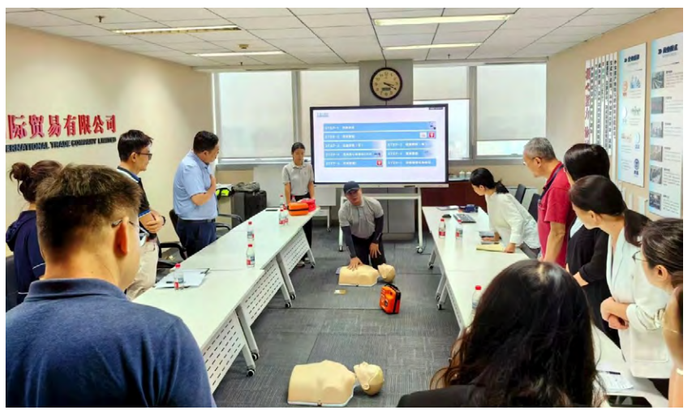
1 月，中钢集团召开 2025 年工作会议暨四届一次职代会。
In January, Sinosteel held its 2025 Work Conference and the First Session of the Fourth Workers' Congress.

职业健康

Occupational Health

搭建心理健康咨询平台，推进职工健康驿站、休息室建设。完善职工互助保障体系，为职工缴纳医疗互助金、女职工特病保险等，为患病职工申请保障金。2025 年，新增职工健康驿站、示范休息室 3 个，组织职工健康体检超 1 万人次，开展健康讲座、心理疏导培训超 50 场次。

We have established a mental health counseling platform and promoted the construction of employee health stations and rest areas. We have also improved the employee mutual aid security system by paying medical mutual aid funds and special disease insurance for female employees, and applying for security funds for sick employees. By 2025, we added three new employee health stations and model rest areas, organized health check-ups for over 10,000 employees, and conducted more than 50 health lectures and psychological counseling training sessions.



9 月，中钢国贸工会联合国际急救课程导师举办心脑血管疾病健康科普讲座与急救技能培训活动。
In September, the Trade Union of Sinosteel International Trading Co., Ltd., in collaboration with international first aid course instructors, organized a health science lecture on cardiovascular and cerebrovascular diseases and first aid skills training activities.

畅通成长路径

Smoothed Career Development Pathways

人才培养

Talent Development

建立员工教育培训管理制度体系，分层分类推进领导干部、核心骨干、优秀青年及新进员工专项培养。围绕财务、AI 素养、安全环保、国际化治理等领域开展专业培训，依托网络学习平台，全方位提升员工综合能力。打造经营者研修品牌，以“诚信、协同、执行”文化为主线，通过理论学习、专家讲座、专题报告和分组研讨等形式，引导经营者凝聚共识。2025 年，职业培训总投入 433.84 万元，覆盖 69,965 人次。

We have established a comprehensive management system for employee education and training and promoted specialized cultivation for leadership cadres, core backbones, outstanding young employees, and new hires in a tiered and categorized manner. We conduct professional training in areas such as finance, AI literacy, safety and environmental protection, and international governance, leveraging online learning platforms to comprehensively enhance employees' overall capabilities. We foster a distinguished brand for executive development programs, with "integrity, synergy, and execution" as the cultural mainline, guiding business leaders to build consensus through theoretical study, expert lectures, thematic reports, and group discussions. In 2025, the total investment in vocational training amounted to 4.3384 million yuan, covering 69,965 participants.

2025 年 In 2025

职业培训总投入
433.84 万元
the total investment in vocational training amounted to 4.3384 million yuan

覆盖
69,965 人次
covering 69,965 participants



中钢集团举办首期“AI+”青论坛，助力全员 AI 素养提升。
Sinosteel held its first "AI+" Youth Forum to enhance the AI literacy of all employees.



中钢矿业建立企业间人才交流“外循环”与企业内岗位轮换“内循环”“双循环”培养模式。

Sinosteel Mining Development Co., Ltd. established a "dual-circulation" training model, comprising an "external circulation" for talent exchange between enterprises and an "internal circulation" for job rotation within the company.



中钢刘塘坊矿业举办职工技能比武大赛。

Sinosteel Anhui Liutangfang Mining Co., Ltd. organized a staff skills competition.



中钢热能院联合炼焦技术国家工程研究中心举办“优化配煤与煤焦检测培训班”。

Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd., in collaboration with the National Engineering Research Center for Coking Technology, held the "Optimization of Coal Blending and Coal Coke Testing Training Course".

职业发展

Career Development

持续拓宽员工职业发展路径，优化岗位体系，畅通管理与技术“双通道”。聚力培育科技人才，深化工程硕博士专项培养，建强卓越工程师队伍。拥有多项正高级职称自主评审权，依规开展职称评审。2025 年，中钢通过相应资格职称评定 857 人。全年组织技能竞赛 144 场，结成“师徒对子”348 对，选树全国劳动模范 1 人、省级劳模 1 人、宝武金牛奖 1 人及各级先进个人和集体 100 余项。

We continuously broaden employees' career development paths, optimize the position system, and unblock the "dual-channel" for management and technical roles. We focus on cultivating scientific and technological talents, deepen specialized training for engineering master's and doctoral students, and strengthen the team of outstanding engineers. We boast an independent evaluation authority for multiple senior professional titles and conduct professional title evaluations in accordance with regulations. In 2025, Sinosteel granted corresponding professional title qualifications to 857 individuals. Throughout the year, 144 skill competitions were organized, 348 "mentor-apprentice pairs" were established, and over 100 awards were presented at various levels, including one National Model Worker, one Provincial Model Worker, and one China Baowu "Golden Ox" Award recipient.

以发展赋能人才，以实干成就榜样

案例 CASE

Empowering Talent through Development and Achieving Excellence through Practical Action

中钢集团畅通职业发展通道，厚植人才成长土壤，鼓励员工立足岗位实干争先，多位骨干人才先后获评重磅荣誉。

Sinosteel has streamlined career development pathways, fostered a fertile environment for talent growth, and encouraged employees to strive for excellence in their respective roles. As a result, several key personnel have been recognized with prestigious honors.



宝武首席科学家、先进耐火材料全国重点实验室主任李红霞光荣当选中国工程院化工、冶金与材料工程学部院士。

Li Hongxia, China Baowu Chief Scientist and Director of the National Key Laboratory of Advanced Refractory Materials, was honorably elected as an academician of the Chinese Academy of Engineering in the Division of Chemical, Metallurgical and Materials Engineering.

中钢山东矿业提选动力车间主井维修工段长闫良凯获评“全国劳动模范”。

Yan Liangkai, head of the main shaft maintenance section at the Power Workshop of Sinosteel Shandong Mining's Beneficiation Plant, was awarded the title of "National Model Worker".



打造幸福职场

Building a Fulfilling Workplace

中钢坚持以人为本，统筹平衡员工工作与生活，持续优化职场环境，开展各类文体活动，常态化关心慰问帮助困难员工，不断提升员工幸福感与获得感。建立“三最”实事项目清单，推动解决职工宿舍升级、食堂优化、充电桩安装等民生问题70项。

Sinosteel adheres to a people-oriented approach and balances employees' work and life in a coordinated manner, continuously optimizing the workplace environment. It organizes various cultural and sports activities and regularly cares for and assists employees in need, consistently enhancing employees' sense of happiness and fulfillment. A list of "three most important" practical projects has been established, promoting the resolution of 70 livelihood issues such as upgrading employee dormitories, improving canteens, and installing charging stations.



刘国旺看望慰问中国工程院院士、中钢集团首席专家、金属矿山开采安全与灾害防治全国重点实验室主任王运敏。

Liu Guowang has visited and extended his regards to Wang Yunmin, an academician of the Chinese Academy of Engineering, chief expert of Sinosteel, and director of the National Key Laboratory of Safe Mining and Disaster Prevention in Metal Mines.



李荣庭到中钢热能院装备制造车间慰问一线员工。

Li Rongting visited the equipment manufacturing workshop of Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. to extend his regards to frontline employees.

开展“厚植安康，清凉一夏”活动

案例 CASE

Launching the "Deepening Safety and Health, Refreshing Summer" Campaign

8 月，中钢集团工会紧扣“厚植安康，清凉一夏”主题，组织所属单位工会全面开展系列活动。

In August, the Sinosteel Trade Union, centering on the theme of "Deepening Safety and Health, Refreshing Summer", organized affiliated unit trade unions to comprehensively carry out a series of activities.



中钢矿院工会开展“情系职工 夏送清凉”慰问活动。

The Trade Union of Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. conducted the "Caring for Employees, Delivering Coolness in Summer" consolation activity.



中钢天源工会开展“送清凉”慰问活动。

The Trade Union of Sinosteel New Materials Co., Ltd. carried out the "Delivering Coolness" consolation activity.



中钢洛耐领导带队赴生产现场“送清凉”。

Sinosteel Luonai Materials Technology Corporation leaders led teams to the production site to "Deliver Coolness".



中钢热能院工会为员工“送清凉”。

The Trade Union of Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. carried out the "Delivered Coolness" activity to employees.

丰富多彩的员工活动

案例 CASE

Diverse and Colorful Employee Activities

中钢集团持续丰富员工业余文化生活，常态化开展技能比拼、节日活动、文体赛事等多元活动，营造温馨和谐、积极向上的团队氛围。

Sinosteel continuously enriches employees' extracurricular cultural life, regularly conducting diverse activities such as skill competitions, holiday events, and sports tournaments to foster a warm, harmonious, and positive team atmosphere.



中钢热能院举办读书分享会暨 PPT 制作大赛。

Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. held a book sharing session and a PPT design competition.



中钢洛耐开展蛋糕 DIY 活动。

Sinosteel Luonai Materials Technology Corporation conducted a cake DIY activity.



中钢天源工会举办 2025 年端午节主题活动。

The Trade Union of Sinosteel New Materials Co., Ltd. held a Dragon Boat Festival-themed event in 2025.



中钢矿院举办“青春强基·篮聚众力”篮球联赛。

Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. organized basketball league.

严守安全底线

Strictly Upholding the Safety Bottom Line

完善安全管理

Improving Safety Management

持续推动重点制度修订，完善安全管理制度体系，夯实安全管理基础，不断提升风险事前防范能力。

We have continuously promoted the revision of key systems, improved the safety management system framework, consolidated the foundation of safety management, and steadily enhanced the capacity for pre-emptive risk prevention.



中钢矿业联合北方工业大学、中钢山东矿业、中钢赤峰矿业 3 家单位共同完成的《矿山安全管理标准化 7C 体系及安全生产风险精准评价方法研究》项目，荣获中国安全生产协会第五届“安全科学技术进步”一等奖。

The project "Research on the 7C System of Mine Safety Management Standardization and Precise Evaluation Methods for Work Safety Risks", jointly completed by Sinosteel Mining Development Co., Ltd., North China University of Technology, Sinosteel Shandong Mining Co., Ltd., and Sinosteel Chifeng Jinxin Mining Co., Ltd., was awarded the first prize in the 5th "Safety Science and Technology Progress" competition organized by the China Association of Work Safety.

加强隐患排查

Strengthening the Investigation and Elimination of Hidden Risks

落实安全督查，先后赴多家下属单位开展安全生产、安全环保专项调研与现场检查，层层压实安全管理责任，从严抓实生产运营全流程安全环保管控。2025 年，中钢排查安全隐患 1 万余条。

We have implemented safety supervision by conducting specialized research and on-site inspections on work safety, as well as safety and environmental protection at multiple subordinate units, thereby reinforcing safety management responsibilities at all levels and ensuring strict control over safety and environmental protection throughout the entire production and operation process. In 2025, Sinosteel identified and investigated over 10,000 potential safety hazards.

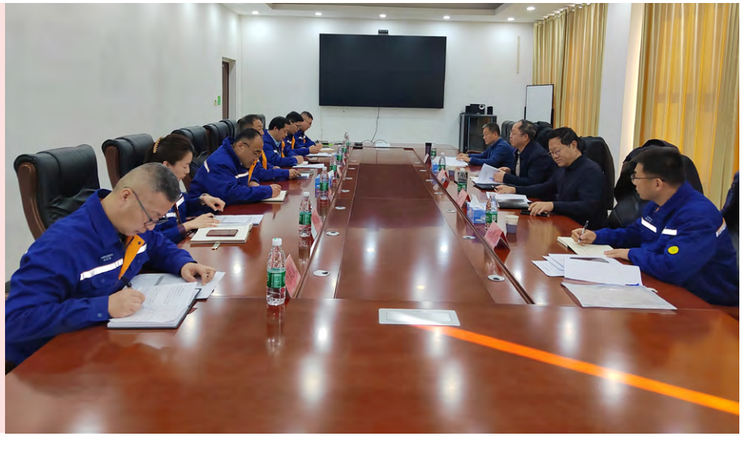


9 月，刘国旺深入生产车间、集控中心、副井及充填站等处了解生产情况。

In September, Liu Guowang visited production workshops, centralized control centers, auxiliary shafts, and backfill stations to gain an understanding of the production situation.

12 月，李荣庭赴中钢富全矿业、中钢山东矿业开展安全环保检查。

In December, Li Rongting conducted safety and environmental inspections at Sinosteel Shandong Fuquan Mining Co., Ltd. and Sinosteel Shandong Mining Co., Ltd.



开展安全培训

Conducting Safety Training

加强安全能环管理队伍能力建设，定期开展安全生产培训与实战化应急演练，持续夯实全员安全责任意识，全面提升从业人员应急处置和实操防控能力。2025 年，中钢开展安全技能培训、应急演练超 100 场次。

We strengthen the capacity building of the safety, energy, and environmental management teams by regularly conducting work safety training and practical emergency drills, thus continuously reinforcing the safety responsibility awareness of all employees and comprehensively enhancing the emergency response and practical prevention and control capabilities of personnel. In 2025, Sinosteel conducted over 100 safety skills training sessions and emergency drills.



中钢矿业围绕“安全生产月”主题开展系列活动，全面提升全员安全素养和单位安全生产治理能力，筑牢安全生产防线。

Sinosteel Mining Development Co., Ltd. carried out a series of activities centered on the theme of "Work Safety Month", which comprehensively enhanced the safety literacy of all employees as well as the company's work safety governance capability, and built a solid line of defense for work safety.



中钢菲律宾汇洋矿业开展年度消防培训。

Sinosteel Phil. H.Y. Mining Corporation conducted its annual fire safety training.



中钢资产举办 2025 年电气安全与实践专项培训。

Sinosteel Asset Administration Co., Ltd. organized a specialized training on electrical safety and practice for 2025.

责任同行

04

为社会贡献更大价值

Partnered with Responsibility and Contributed Greater Value to Society

中钢集团始终坚守央企责任担当，以优质服务、合作共赢、温暖向善、海外履责为核心，携手产业链伙伴共促高质量发展，深耕乡村振兴与公益事业传递企业温度，积极践行“一带一路”倡议与全球发展倡议，在产品服务、供应链管理、社区共建、国际合作等领域全面履行社会责任，以实际行动为社会创造更大价值，彰显新时代企业使命与担当。

Sinosteel consistently upholds the responsibility and commitment of a central state-owned enterprise, focusing on high-quality services, win-win cooperation, warmth and goodwill, and overseas responsibility fulfillment. It collaborates with industry chain partners to promote high-quality development, deepens efforts in rural revitalization and public welfare initiatives to convey corporate compassion, actively implements the Belt and Road Initiative and the Global Development Initiative, and comprehensively fulfills social responsibilities across product services, supply chain management, community co-construction, and international cooperation. Through concrete actions, it creates greater value for society and demonstrates the mission and responsibility of enterprises in the new era.



10 减少不平等 | 11 可持续城市和社区 | 12 负责任消费和生产

回应可持续发展目标
Our Response to the SDGs

负责任守匠心

Acted Responsibly and Demonstrated Craftsmanship

加强质量管理

Strengthening Quality Management

坚持以科学方法测定产品质量，持续跟踪产品品质达标情况，从订单响应、生产监控到交付反馈，形成闭环管理确保产品精准满足用户需求。广泛开展质量提升活动，通过质量知识竞赛、QC 成果比武、优秀案例申报、“质量月”专题大讲堂培训等多元举措，全面提升全员质量管理素养与专业能力。

We adhere to scientific methods to assess product quality. We continuously monitor product quality compliance and establish a closed-loop management system from order response and production monitoring to delivery feedback to ensure products precisely meet user requirements. We extensively carry out quality improvement activities. Through diverse measures such as quality knowledge competitions, QC achievement contests, submission of excellent case studies, and specialized training lectures during "Quality Month", we have comprehensively enhanced the quality management literacy and professional capabilities of all employees.



中钢国贸通过 ISO 9001 质量管理体系认证。

Sinosteel International Trading Co., Ltd. has obtained ISO 9001 Quality Management System certification.

矿业板块 Mining Sector

持续完善全流程质量管理体系，严格对标行业先进标准，健全从矿山绿色开采、选矿加工到成品检验的全链条质量管控机制，稳步提升铁、铬等核心矿种的品位稳定性与批次一致性，保障优质资源稳定供应。

We have continuously improved the comprehensive, full-process quality management system, strictly benchmarked against industry-leading standards, and refined the end-to-end quality control mechanism covering green mining, ore processing, and finished product inspection. This has steadily enhanced the grade stability and batch consistency of core minerals such as iron and chromium, ensuring a stable supply of high-quality resources.

新材料板块 New Materials Sector

以技术创新驱动产品质量升级，强化高性能磁性材料、高端耐火材料等新材料的研发与生产全流程管控，持续提升产品性能合格率、使用寿命与环境适应性。

Driven by technological innovation to enhance product quality, we have strengthened the entire process management of research, development, and production for new materials in this sector, such as high-performance magnetic materials and high-end refractory materials, continuously improving product qualification rates, service life, and environmental adaptability.

优化客户服务

Optimizing Customer Service

推进品牌价值提升与客户服务优化，建立全生命周期客户服务机制，精准响应客户需求，提升服务效率与满意度，以高质量产品与服务助力产业升级与长远发展。

We promote brand value enhancement and customer service optimization, establish a full-lifecycle customer service mechanism, accurately respond to customer needs, improve service efficiency and satisfaction, and support industrial upgrading and long-term development with high-quality products and services.

负责任营销 Responsible Marketing

客观披露产品质量信息，在贸易合同中真实标注产品品质，约定以海关 CIQ 或市场公认第三方检验机构或客户厂检结果为准，杜绝过度营销和产品欺诈。

We objectively disclose product quality information, truthfully indicate product quality in trade contracts, and stipulate that the determination shall be based on the results of customs CIQ inspections, inspections conducted by market-recognized third-party inspection agencies, or factory inspections performed by the client, thereby eliminating over-marketing and product fraud.

售后服务 After-Sales Service

按照购销合同约定向客户提供售后服务。

We provide after-sales service to customers in accordance with the stipulations of the sales and purchase contract.

应对客户投诉 Handling Customer Complaints

高效响应客户质量异议，第一时间现场对接处置，按需落实返工、退换货等整改措施。

We respond efficiently to customer quality complaints, conduct on-site coordination and resolution immediately, and implement corrective measures such as rework, product return, or exchange as required.

次品管控 Defective Product Control

规范不合格产品台账管理与合规处置。

We standardize the management of non-conforming product records and ensure compliant disposal.

履约赔付 Performance Compensation

针对交货延期、货物品质差异等问题依规履约赔付。

We execute compensation in accordance with regulations for issues such as delivery delays and quality discrepancies in goods.

中钢国贸 案例 CASE

Sinosteel International Trading Co., Ltd.

构建“海外原料采购－跨国运输－报关报检—港口货物监管－送货到厂”全流程服务体系；开拓小金属资源品种，塑造差异化品牌形象，满足客户高端需求。2025 年，客户满意度为 96%。

We have built a full-process service system covering "overseas raw material procurement-cross-border transportation customs declaration and inspection-port cargo supervision-delivery to factories". We have also developed specialized metal resources other than iron ore, shaping a differentiated brand image and meeting high-end customer demands. In 2025, the customer satisfaction rate reached 96%.

以全链条定制服务护航项目落地

案例 CASE

Ensuring Project Implementation with Full-Chain Customized Services

5 月，中钢洛耐与铜陵旋力特钢签约 RH 耐火材料整体总承包项目，承接其 100 吨 RH 真空炉项目，提供设计、材料供应到施工砌筑、现场维护的全流程技术服务。项目攻坚阶段，细化施工方案、严控工序品质，高效完成炉体耐材施工。热试期间炉体各项关键指标达标，耐材热态性能优异，能源利用效率较行业平均水平提升 8%，助力客户绿色高效生产。

In May, Sinosteel Luonai Materials Technology Corporation signed an overall EPC contract for RH refractory materials with Tongling City Xuanli Special Steel, undertaking its 100-ton RH vacuum furnace project and providing full-process technical services from design and material supply to construction, masonry, and on-site maintenance. During the critical project phase, the construction plan was refined, process quality was strictly controlled, and the furnace refractory construction was completed efficiently. During the hot commissioning phase, all key indicators of the furnace body met the required standards, the refractory materials exhibited excellent thermal performance, and energy utilization efficiency increased by 8% compared to the industry average, supporting the customer's green and efficient production.





售后服务评价体系认证证书

兹证明

中钢集团马鞍山矿山研究总院股份有限公司

获证组织统一社会信用代码：91340500485075889
注册地址：马鞍山市经济技术开发区西塘路 666 号
经营地址：安徽省马鞍山市经济技术开发区西塘路 666 号
其已通过本机构审核，符合 GB/T 27922-2011 商品售后服务评价体系的相关要求，评价结果：

五星级售后服务

★★★★★

认证范围：

非煤矿产资源开发利用的技术咨询、技术研发；安全评价咨询；职业卫生评价咨询；环境领域技术咨询服务；绿色低碳领域技术咨询服务；检验检测（含环境监测）及技术咨询售后服务。

证书编号：AAC25SHFW10304
首次发证日期：2025-03-03
证书颁发日期：2025-03-03
证书有效期至：2028-03-02

证书专用章

证书签发人

本证书由上海申西认证有限公司颁发，获证组织应于证书有效日期前按规定执行监督审核，证书到期前应及时申请更换证书。认证信息可在国家认证认可监督管理委员会（CNCA）官方网站（www.cnca.gov.cn）上查询。

上海申西认证有限公司

地址：中国上海市松江区沪亭北路 99 弄九亭中心南区 2 号楼 1206 室



中钢矿院获得《商品售后服务评价体系》售后服务评价体系认证证书，等级为五星级。

Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. has obtained the "Commodity After-Sales Service Evaluation System" certification for its after-sales service evaluation system, with a rating of five stars.

携手伙伴共赢

Collaborating with Partners for Mutual Success

负责任供应链

Responsible Supply Chain

采购招标管理

Procurement and Bidding Management

制定《采购供应链管理办法（试行）》《招标采购不诚信行为管理细则（试行）》等制度，建立公开透明的招标采购管理体系，确保采购流程合规、采购结果经济合理。依托线上采购平台规范项目采购流程，畅通供应商异议反馈渠道。

We have formulated systems such as the *Procurement Supply Chain Management Measures (Trial)* and the *Detailed Rules for Managing Dishonest Behaviors in Bidding and Procurement (Trial)*, established an open and transparent bidding and procurement management system to ensure compliance in procurement processes and economic rationality in procurement outcomes. We have leveraged online procurement platforms to standardize project procurement procedures and unblock channels for supplier objection feedback.



萨曼可铬业上线 Coupa 电子采购系统并实现全覆盖，强化集中采购与审批管理，长协合同应招尽招。截至 2025 年 12 月，合同审批周期减少 30%，全年实现采购降本 2.33 亿兰特。

Samancor Chrome Limited has implemented and achieved full coverage of the Coupa e-procurement system and strengthened centralized procurement and approval management, ensuring that all long-term agreements were subject to competitive bidding as required. As of December 2025, the contract approval cycle has been reduced by 30%, achieving annual procurement cost savings of 233 million Rand.

供应商管理

Supplier Management

实行严格的准入审核与动态考评机制，落实优胜劣汰制度，规范客商管理；在采购环节融入绿色理念，优选低碳产品。同时评估合作方资信资质，联动优质头部企业，夯实合规稳定的绿色供应链。

We implement a rigorous entry review and dynamic evaluation mechanism, enforce a system of survival of the fittest, and standardize customer and merchant management. We integrate green concepts into the procurement process, prioritizing low-carbon products. Concurrently, we assess the creditworthiness and qualifications of partners, collaborate with high-quality leading enterprises, and strengthen a compliant and stable green supply chain.

供应链管理

Supply Chain Management

优化产能布局并搭建应急保供机制，确保持续稳定供货；完善风险预警管控，以数字化赋能库存管理，高效防范供应链风险，保障供应链安全与稳定；坚持平等对待企业内部和外部各市场参与主体，破除行业垄断和保护主义，打造负责任供应链。

We have optimized production capacity layout and established an emergency supply guarantee mechanism to ensure continuous and stable supply. We have enhanced risk early warning and control, empowered inventory management with digitalization, and efficiently prevented supply chain risks, ensuring supply chain security and stability. We adhere to equal treatment of all market participants both within and outside the enterprise, break down industry monopolies and protectionism, and build a responsible supply chain.

加强合作交流 ›

Strengthening Cooperation and Exchange

持续推进高层商务会晤与政企、企企交流，境外拜访产业链重点合作企业，对内对接地方政府、头部产业伙伴，围绕战略合作、技术创新洽谈落地路径，全方位夯实多方合作根基。

We consistently advance high-level business meetings and exchanges between government and enterprises, as well as among enterprises themselves. Internationally, we visit key cooperative enterprises within the industrial chain; domestically, we engage with local governments and leading industry partners. We focus on discussing implementation pathways for strategic cooperation and technological innovation, thereby comprehensively solidifying the foundation for multilateral collaboration.



刘国旺与马鞍山市委书记一行就深化战略合作进行充分交流。
Liu Guowang and the Secretary of the Ma'anshan Municipal Party Committee held thorough discussions on deepening strategic cooperation.



李荣庭与大冶有色金属集团控股有限公司围绕科技创新、深化合作开展友好交流。
Li Rongting engaged in friendly exchanges with Daye Nonferrous Metals Group Holdings CO., Ltd. on technological innovation and enhanced collaboration.

中钢国贸参加第八届中国国际进口博览会

案例 CASE

Sinosteel International Trading Co., Ltd. Participated in the 8th China International Import Expo

11 月，中钢国贸参加第八届中国国际进口博览会，与法国埃赫曼集团、印尼镍矿公司等全球知名企业达成合作签约，合作品类涵盖锰矿、镍铁、铬矿等小金属资源，签约额近 2 亿美元，助力提升小金属资源产业链供应链韧性。

In November, Sinosteel International Trading Co., Ltd. participated in the 8th China International Import Expo. The company reached cooperation agreements with globally renowned enterprises such as France's Eramet Group and Indonesia's PT Ceria Metalindo Prima. The cooperation categories encompass specified metal resources, including manganese ore, nickel iron, and chrome ore, with a total contract value of nearly USD 200 million. This contributes to enhancing the resilience of the specified metal resources industrial chain and supply chain.



推动行业进步

Promoting Industry Advancement

坚持创新引领、开放共享，积极参与行业交流、标准建设与技术协同，主动搭建行业交流平台，促进经验互鉴、资源互通与能力共建。

Adhering to innovation-driven development and open sharing, we actively participate in industry exchanges, standard formulation, and technological collaboration. We proactively establish platforms for industry communication to facilitate experience sharing, resource exchange, and capability building.

2025 年 In 2025

中钢集团累计制定标准	其中国家标准	国际标准
22 项	11 项	2 项

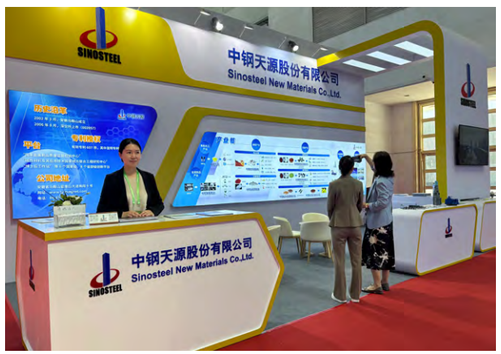
Sinosteel has cumulatively developed 22 standards, including 11 national standards and 2 international standards.

中钢天源参与制定的国际电工委员会（IEC）标准 IEC 63093-15:2025 正式发布。

The International Electrotechnical Commission (IEC) standard IEC 63093-15:2025, in which Sinosteel New Materials Co., Ltd. participated in the formulation, has been officially released.

中钢洛耐 ISO 16206:2025《硅砖中残余石英定量相分析 -X 射线衍射法》获得批准发布。

Sinosteel Luonai Materials Technology Corporation's ISO 16206:2025, *Phase quantitative analysis of residual quartz in silica bricks–X-ray diffraction method*, has been approved and released.



中钢天源参加中国国际供应链促进博览会。
Sinosteel New Materials Co., Ltd. participated in the China International Supply Chain Promotion Expo.



中钢洛耐主办第十八届全国不定形耐火材料学术会议。
Sinosteel Luonai Materials Technology Corporation hosted the 18th National Conference on Unshaped Refractory Materials.

彰显国企担当

Demonstrating the Responsibility of State-Owned Enterprises

助力乡村振兴

Supporting Rural Revitalization

始终把助力乡村振兴作为重要社会责任，坚持精准帮扶、长效赋能、多方联动，通过资金投入、产业培育、民生改善、消费帮扶、结对共建等多种方式，扎实推进定点帮扶工作，持续改善乡村生产生活条件、增强内生发展动力。

We have consistently regarded supporting rural revitalization as a significant social responsibility, adhering to the principles of targeted assistance, long-term empowerment, and multi-party collaboration. Through various approaches such as capital investment, industrial cultivation, improvement of people's livelihoods, consumption-based assistance, and paired partnerships, we have steadily advanced our designated assistance efforts, continuously enhancing the production and living conditions in rural areas and strengthening their endogenous development momentum.

中钢集团 Sinosteel

定点帮扶内蒙古翁牛特旗

Designated assistance to Wengniute Banner, Inner Mongolia

中钢天源 Sinosteel New Materials Co., Ltd.

定点帮扶安徽省当涂县大陇镇、和县功桥镇新塘村

Designated assistance to Dalong Town, Dangtu County, and Xintang Village, Gongqiao Town, He County, Anhui Province

中钢洛耐 Sinosteel Luonai Materials Technology Corporation

定点帮扶河南省汝阳县井沟社区

Designated assistance to Jinggou Community, Ruyang County, Henan Province

中钢矿院 Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.

定点帮扶安徽省和县聂兴圩村

Designated Assistance to Niexingwei Village, He County, Anhui Province

中钢集团 Sinosteel

- 向定点帮扶地区投入帮扶资金 **850** 万元，建成阿日善嘎查饮水设施，解决当地百姓入户饮水问题，援建农机驾驶员培训基地，每年可安排培训、考证 **2,000** 人次。

  Invested 8.5 million yuan in assistance funds into the designated support areas, constructing the Arishan Gacha drinking water facility to resolve local residents' household water access issues, and building a support-funded agricultural machinery driver training base capable of arranging training and certification for 2,000 individuals annually.

- 参与“央企消费帮扶兴农周”等活动，累计完成消费帮扶 **472** 万元。

  Participated in activities such as the "Central SOEs Consumption Assistance for Rural Revitalization Week", cumulatively completing 4.72 million yuan in consumption assistance.

中钢洛耐 Sinosteel Luonai Materials Technology Corporation

- 完成驻村（第五任）第一书记轮换。

  Completed the rotation of the resident (fifth-term) first secretary.

- 推动香菇产业落地、文旅项目建设，吸纳群众就业。

  Promoted the implementation of the shiitake mushroom industry and the construction of cultural tourism projects, thereby absorbing local employment.

- 改善社区环境，打造乡镇示范典型。

  Improved the community environment, creating a model demonstration township.

- 开展物资捐赠、消费帮扶活动。

  Conducting material donations and consumption assistance activities.

中钢矿院 Sinosteel Ma'anshan Institute of Mining Research Co., Ltd.

- 领导带队中层干部与重点帮扶村民结对子。

  Leaders lead middle-level cadres to form partnerships with key assisted villagers.

- 开展向困难学子发放助学金、资助危房改造等活动。

  Carried out activities such as distributing financial aid to needy students and funding dilapidated housing renovations.

- 支持定点帮扶村基础设施提质升级。

  Supported the quality improvement and upgrading of infrastructure in designated assistance villages.



1 月，李荣庭会见内蒙古赤峰市翁牛特旗旗委副书记、旗政府代旗长一行，围绕深入开展乡村振兴交流合作、继续推进定点帮扶工作进行深入交流。

In January, Li Rongting met with a delegation led by the Deputy Secretary of the Wengniute Banner Committee and Acting Banner Chief of Chifeng City, Inner Mongolia, engaging in in-depth discussions on deepening rural revitalization exchanges and cooperation and continuing to advance targeted assistance work.



9 月，中钢天源领导到乡村振兴定点帮扶村和县功桥镇新塘村走访调研。

In September, leaders of Sinosteel New Materials Co., Ltd. visited and conducted research in Xintang Village, Gongqiao Town, He County, a designated rural revitalization assistance village.

共建美好生活

Building a Better Life Together

公益慈善 Public Welfare and Philanthropy

修订《中国中钢集团有限公司对外捐赠、赞助管理制度》，以制度规范公益投入。积极投身社区公益与志愿服务，广泛开展便民服务、爱心奉献等活动，助力社区建设与民生改善，构建和谐企地关系。2025 年，中钢对外捐赠 1,312.59 万元。

We have revised the *External Donation and Sponsorship Management System of Sinosteel Group Corporation Limited* to standardize public welfare investments through institutional frameworks. We have actively engaged in community public welfare and volunteer services and extensively carried out activities such as convenience services and acts of kindness, contributing to community development and the improvement of people's livelihoods, and fostering harmonious relationships between the enterprise and the local community. In 2025, Sinosteel made external donations totaling 13,125,900 yuan.



中钢矿院组织无偿献血。

Sinosteel Ma'anshan Institute of Mining Research Co., Ltd. organized Blood Donation Drives.



中钢洛耐组织开展“共建绿色家园 践行生态文明”义务植树活动。

Sinosteel Luonai Materials Technology Corporation organized a voluntary tree-planting activity themed "Building a Green Home Together, Practicing Ecological Civilization".

应急保障 Emergency Support

完善物流应急处置体系，面对极端天气、人员遇险、设备故障等险情，多方协同联动、高效处置，全力保障航运运行平稳有序。

The emergency response system for logistics has been enhanced. In the face of emergencies such as extreme weather, personnel in distress, and equipment failures, multiple parties coordinate and respond efficiently to ensure the stable and orderly operation of shipping.

中钢货运快速响应、高效协同处置各类突发险情

案例 CASE

Sinosteel International Freight Co., Ltd.'s Rapid Response and Efficient Coordination in Handling Various Emergencies

中钢货运健全物流应急处置体系，筑牢海上运输安全防线，高效处置各类航运突发险情与应急保障任务，切实保障供应链稳定与人员安全，彰显央国企责任担当。

Sinosteel International Freight Co., Ltd. improved its logistics emergency response system, strengthened maritime transportation safety defenses, and efficiently handled various types of sudden shipping incidents and emergency support tasks, effectively ensuring supply chain stability and personnel safety, thereby demonstrating the responsibility and commitment of a central state-owned enterprise.



参与舟山极端天气保供、外籍船舶碰撞应急救援。

It has participated in supply guarantee during extreme weather in Zhoushan and the emergency rescue of a foreign vessel collision.

践行海外责任

Fulfilling Overseas Responsibilities

强化境外合规，筑牢风控防线

Strengthening Overseas Compliance and Fortifying Risk Control Defenses

制定发布《中钢集团境外合规管理细则》，填补境外合规制度空白。启动境外企业重大合同提级审核，强化风险防范。协助两家重点子企业搭建法务合规管理体系，推进 ISO 37301 合规管理体系认证，完善全流程合规管控机制，保障境外业务依法合规、稳健可持续发展。

We have formulated and issued the *Detailed Rules for Overseas Compliance Management of Sinosteel*, filling the gap in overseas compliance systems. We have initiated the escalation review of major contracts for overseas enterprises to enhance risk prevention. We have assisted two key subsidiaries in establishing legal and compliance management systems, promoted ISO 37301 compliance management system certification, and improved the whole-process compliance control mechanism, thus ensuring the lawful, compliant, stable, and sustainable development of overseas operations.

深化属地融合，促进共同发展

Deepening Local Integration and Promoting Common Development

本地化雇佣

Localized Employment

萨曼可铬业 Samancor Chrome Limited

坚持属地化用工原则，运营管理以本地员工及团队为核心，优先聘用本地人才。积极开展技能培训，保障生产经营落地生效。萨曼可铬业正式员工共 6,000 余人，本地员工占比超过 99%。

We adhere to the principle of localized employment, with operations management centered on local employees and teams, prioritizing the recruitment of local talent. We actively carry out skills training to ensure the effective implementation of production and operations. Samancor Chrome Limited has over 6,000 regular employees, with local employees accounting for more than 99%.

2025 年 In 2025

萨曼可铬业正式员工

6,000 余人

Samancor Chrome Limited has over 6,000 regular employees

中钢洛耐 Sinosteel Luonai Materials Technology Corporation

印尼青山大 K 项目持续培育属地化人才，为当地施工团队提供专业技能培训，打造符合中国标准、兼具本地实操能力的复合型施工队伍。2025 年，项目本地化雇佣率达 70%。

The Indonesia Tsingshan K Project continues to cultivate localized talent, providing professional skills training for local construction teams to build a composite construction workforce that meets Chinese standards while possessing local practical capabilities. In 2025, the project's local employment rate reached 70%.

本地化采购

Localized Procurement

萨曼可铬业 Samancor Chrome Limited

严格遵循南非本地采购政策，积极带动当地产业链发展，本地供应商占比 94%。

The company strictly adheres to South Africa's local procurement policies, actively drives the development of the local industrial chain, with local suppliers accounting for 94%.

坚持绿色发展，守护生态家园

Adhering to Green Development and Safeguarding the Ecological Homeland

萨曼可铬业 Samancor Chrome Limited

建立温室气体排放监测报告体系，加强用水精细化管理与水循环利用，推进尾矿回收、废石智能分选及矿柱回采等创新项目，通过尾矿资源化利用，实现废弃物的高效再利用。同步实施生物多样性管理计划，落实矿山全生命周期生态修复。

We have established a greenhouse gas emission monitoring and reporting system, enhanced refined water management and water recycling, and promoted innovative projects such as tailings recovery, intelligent waste rock sorting, and pillar recovery, thereby achieving efficient reuse of waste through tailings resource utilization. Simultaneously, we have implemented a biodiversity management plan and carried out ecological restoration throughout the entire mining lifecycle.

心系民生福祉，共建美好社区

Caring for People's Well-being, Building a Better Community Together

主动践行社会责任，聚焦教育、基建、医疗、环境等领域落地公益项目，切实改善当地生活条件，赢得当地社区和政府的广泛认可。2025 年，中钢海外累计对外捐赠支出约 379.4 万元。

Proactively fulfilling social responsibilities, we have implemented public welfare projects that focus on education, infrastructure, healthcare, and environmental protection, effectively improving local living conditions and earning widespread recognition from local communities and governments. In 2025, Sinosteel Overseas Resources Co., Ltd.'s cumulative external donation expenditures amounted to approximately 3.794 million yuan.

2025 年 In 2025

中钢海外累计对外捐赠支出约

379.4 万元

Sinosteel Overseas Resources Co., Ltd.'s cumulative external donation expenditures amounted to approximately 3.794 million yuan

萨曼可铬业 Samancor Chrome Limited

在南非累计投入约 **36.78** 万元用于当地学校基础设施升级、社区公益等事业。入选《在南非中资企业履行社会责任报告（2024）》，成为中资企业扎根南非、实现共赢发展的标杆。

In South Africa, a cumulative investment of approximately 367,800 yuan has been made in local school infrastructure upgrades and community public welfare initiatives. It was selected for inclusion in the *Report on Social Responsibility Fulfillment by Chinese Enterprises in South Africa (2024)*, becoming a benchmark for Chinese enterprises to take root in South Africa and achieve win-win development.

中钢菲律宾汇洋矿业 Sinosteel Phil. H.Y. Mining Corporation

在菲律宾投入 **193.15** 万元支持地方政府民生工程建设、学校奖助学计划、社区医疗设施完善、农牧渔民生产帮扶、媒体公益宣传等多个领域。

In the Philippines, an investment of 1.9315 million yuan was made to support various areas, including the construction of local government livelihood projects, school scholarship and financial aid programs, the improvement of community medical facilities, assistance for the production activities of farmers, herders, and fishermen, and public interest media campaigns.

中钢津巴布韦铬业 Zimasco Private Limited

在津巴布韦投入 **149.47** 万元开展社区环境整治与绿化工程、员工职业技能培训、推进教育帮扶计划等活动，惠及员工与社区居民。

In Zimbabwe, an investment of 1.4947 million yuan has been allocated to carry out activities such as community environmental improvement and greening projects, employee vocational skills training, and the advancement of educational support programs, benefiting both employees and community residents.

深耕海外公益帮扶，筑牢中菲民心桥梁

案例 CASE

Deepening Overseas Public Welfare Support to Strengthen the Bridge of People-to-People Friendship Between China and the Philippines

中钢菲律宾汇洋矿业严格遵循菲律宾矿业法 SDMP 相关规定，规范使用社会责任专项预算，聚焦教育扶持、文化传承、弱势群体关爱等领域，通过奖助学金资助、教学设施修缮、本土文化活动支持、妇女帮扶等务实举措，持续为矿区周边社群办实事、解难题，切实改善属地教育水平与民生福祉，深度融入当地社区发展。

Sinosteel Phil. H.Y. Mining Corporation strictly adheres to the relevant provisions of the Philippine Mining Act's SDMP and standardizes the use of the special budget for social responsibility, with a focus on areas such as educational support, cultural heritage preservation, and care for vulnerable groups. Through practical measures such as scholarship and financial aid grants, renovation of teaching facilities, support for local cultural activities, and assistance for women, the company continuously addresses practical issues and resolves difficulties for communities surrounding the mining area. These efforts effectively improve local education standards and the well-being of residents, deeply integrating the company into the development of the local community.

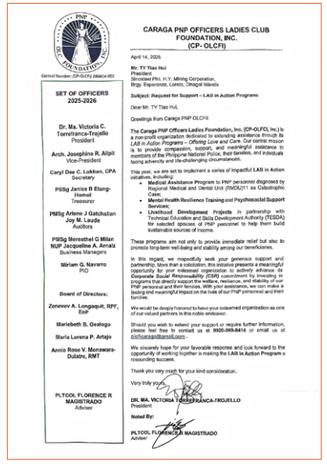
2025 年，中钢菲律宾汇洋矿业荣获北苏里高教育委员会“2025 年度最佳合作伙伴奖”、迪纳加特省政府“2025 年度支持传承风俗文化传统奖”、LORETO 市政府“2025 年度支持妇女发展奖”。

In 2025, Sinosteel Phil. H.Y. Mining Corporation was honored with the "2025 Best Partner Award" by the Surigao del Norte Education Council, the "2025 Award for Supporting the Inheritance of Customs and Cultural Traditions" by the Provincial Government of Dinagat Islands, and the "2025 Award for Supporting Women's Development" by the LORETO Municipal Government.



北苏里高教育委员会颁发致谢证书。

Certificate of Appreciation was presented by the Surigao del Norte Education Council.



LORETO 市政府颁发 2025 年度支持妇女发展奖。

The 2025 Award for Supporting Women's Development was presented by the City Government of LORETO.



为当地女性提供医药和健康支持。
Providing medical and health support for local women.

十分感谢中钢菲律宾汇洋矿业的长期持续的支持与帮助，不仅为我们改善了教育条件，而且保证了没有一个学生因家庭问题而辍学，每年还有一些学生得到中钢菲律宾汇洋矿业赞助的激励而考入当地知名学府。中钢菲律宾汇洋矿业是我们长期可靠的合作伙伴！

We deeply appreciated the long-term and continuous support and assistance from Sinosteel Phil. H.Y. Mining Corporation, which not only improved our educational conditions but also ensured that not a single student dropped out of school due to family financial difficulties. Every year, some students were motivated by the sponsorship of Sinosteel Phil. H.Y. Mining Corporation and admitted to well-known local universities. Sinosteel Phil. H.Y. Mining Corporation was our long-term and reliable partner!

——北苏里高教育委员会总督察
- Superintendent, Surigao del Norte Education Council



萨曼可铬业向周边的社区学校捐赠生活学习用品。
Samancor Chrome Limited donated daily necessities and school supplies to neighboring community schools.



12 月，中钢津巴布韦铬业协调中国第 22 批援津巴布韦医疗队前往中钢津巴布韦铬业所属奎奎冶炼厂和舒鲁圭矿区，为员工及社区居民们开展为期两天的暖心义诊。
In December, Zimasco Private Limited coordinated with the 22nd Chinese Medical Team Aid to Zimbabwe to conduct a two-day warm-hearted free clinic at Zimasco Private Limited's Kwekwe Smelter and Shurugwi Mine, providing medical services for employees and community residents.

深化国际交流，讲好中钢故事

Deepening International Exchanges and Effectively Narrating the Sinosteel Story

依托境外社交媒体开展品牌与责任传播，中钢海外及所属境外企业共运营 3 个境外社交媒体账号，聚焦发展成果、项目建设与海外履责等内容，有效提升海外品牌形象与国际影响力。积极参与南非投资大会、投资南非战略对话会、Minesafe 大会等交流活动，并作为中南商务理事会等主席单位，承办多场国际论坛与经贸交流会，获得中南两国政商界广泛关注与中外媒体积极报道。

Relying on overseas social media for brand and responsibility communication, Sinosteel Overseas Resources Co., Ltd. and its affiliated overseas enterprises collectively operate three overseas social media accounts, focusing on development achievements, project construction, and overseas responsibility fulfillment, effectively enhancing the overseas brand image and international influence. They have actively participated in exchange activities such as the South Africa Investment Conference, Invest South Africa Strategic Dialogue, and Minesafe Conference. As the chair unit of organizations including the China-South Africa Business Council, we organized multiple international forums and economic and trade exchange meetings, garnering extensive attention from political and business circles in both China and South Africa, as well as positive coverage from domestic and international media.



中钢海外受邀参加南非投资大会，就南非矿业领域的投资机遇和合作经验，与现场的政府官员、商界领袖和相关合作方开展深入探讨与交流。

Sinosteel Overseas Resources Co., Ltd. was invited to attend the South Africa Investment Conference, where it engaged in in-depth discussions and exchanges with government officials, business leaders, and relevant partners on investment opportunities and cooperation experiences in South Africa's mining sector.



中钢国贸参加 2025 年 Fastmarkets 亚洲铁合金大会，并在曼谷会议期间会见重要客户，就增进铁合金业务合作、拓宽市场空间展开深入交流。

Sinosteel International Trading Co., Ltd. participated in the 2025 Fastmarkets Asian Ferroalloys Conference and met with key clients in Bangkok to engage in in-depth discussions on enhancing ferroalloy business cooperation and expanding market opportunities.



萨曼可铬业参加 2025 年南非 MineSafe 大会，荣获“安全绩效最佳进步奖”“安全绩效最佳总体表现奖”。

Samancor Chrome Limited participated in the 2025 MineSafe Conference in South Africa and was honored with the "Best Safety Performance Improvement Award" and the "Best Overall Safety Performance Award".

未来展望 Outlook

立足发展新阶段，中钢集团坚持以习近平新时代中国特色社会主义思想为指导，全面贯彻党的二十大和二十届历次全会精神，以“三新”战略部署为指引，以“三创四化五策略”高质量发展模式为基本遵循，聚焦小金属资源和相关新材料主责主业，落实“1+X”战略布局，从“坚守一个中心、聚焦‘两铬（洛）’、攻坚三大难题、锚定四大成本、落实五大保障”发力，为开启“十五五”创业新征程开好局、起好步，助力中国宝武创建世界一流企业贡献力量！

In the new stage of development, Sinosteel adheres to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we fully implement the guiding principles of the 20th CPC National Congress and its successive plenary sessions, follow the strategic deployment of the "New Stage, New Strategy, and New Model", and abide by the high-quality development model of "Innovating to Strengthen, Creating Value to Excel, and Venturing to Grow", "High-end, Intelligent, Green, and Efficient Development", and "Focusing on Core Businesses, Driving Integration and Synergy, Unlocking Institutional Vitality, Practicing Operational Management, and Strengthening Risk Prevention and Control". The Group focuses on its core responsibilities in specified metal resources other than iron ore and related new materials, implements the "1+X" strategic layout, and strives to "Uphold One Central Task, Concentrate on 'Two Chromes (Chrome and Refractories)', Tackle Three Major Challenges, Anchor Four Key Costs, and Implement Five Guarantees". This approach aims to lay a solid foundation and take a strong start for the new journey of entrepreneurship in the "15th Five-Year Plan" period, contributing to China Baowu's efforts to build a world-class enterprise!

附 录
Appendix

关键绩效
Key Performance

指标 Indicators	单位 Unit of measurement	2025	2024	2023
营业收入 Operating Revenue	亿元 100 million yuan	536.67	614.26	692.86
资产总额 Total Assets	亿元 100 million yuan	1,033.91	1,058.91	973.56
资产负债率 Asset-Liability Ratio	%	76.77	77	85.06
纳税总额 Total Tax Paid	亿元 100 million yuan	22.87	23.40	21.42
研发投入 R&D Investment	亿元 100 million yuan	11.71	12.54	13.30
研发人员数量 Number of R&D Personnel	人 Persons	3,356	3,502	2,758
研发人员比例 Proportion of R&D Personnel	%	15.11	14.88	10.08
当年申请专利数 Number of Patents Applied for in the Current Year	件 Items	730	928	851
发明专利申请数 Number of Invention Patent Applications	件 Items	470	522	474
当年授权专利数 Number of Patents Granted in the Current Year	件 Items	586	545	594
应用于主营业务的发明专利数量 Number of Invention Patents Applied in Core Businesses	件 Items	286	227	266
重要科技奖项（国家 + 省部级） Major Science and Technology Awards (National + Provincial/Ministerial Level)	项 Items	36	29	27
安全生产投入 Work Safety Investment	万元 10,000 yuan	12,152.41	14,236.90	11,594.02
安全培训次数 Number of Safety Training Sessions	次 Times	805	639	798
安全培训人次 Safety Training Attendances	人次 Person-times	23,641	24,044	37,082

指标 Indicators	单位 Unit of measurement	2025	2024	2023
所属企业污染事件 Pollution Incidents of Affiliated Enterprises	起 Times	0	0	0
环保投入 Environmental Protection Investment	万元 10,000 yuan	7,926.23	6,527.74	2,503
环保培训次数 Number of Environmental Protection Training Sessions	次 Times	2	1	1
环保培训时长 Duration of Environmental Protection Training	小时 Hours	36	32	40
能源消耗总量 Total Energy Consumption	万吨标准煤 10,000 tons of standard coal equivalent	11.14	13.08	7.54
能源消耗总量变化率（同比） Change Rate of Total Energy Consumption (Year-on-Year)	%	-14.83	73.47	-66.78
清洁能源使用比例 Proportion of Clean Energy Consumption	%	7.85	4.07	1.07
生产电耗 Production Electricity Consumption	万千瓦时 10,000 kWh	49,827.27	50,575.45	41,069.38
万元产值综合能耗 Comprehensive Energy Consumption per 10,000 Yuan of Output Value	吨标准煤 / 万元 Ton of Standard Coal Equivalent/10,000 yuan	0.26	0.28	0.19
万元产值综合能耗变化率（同比） Change Rate of Comprehensive Energy Consumption per 10,000 Yuan of Output Value (Year-on-Year)	%	-7.14	47.37	0.4
温室气体排放量 Greenhouse Gas Emissions	万吨二氧化碳当量 10,000 tons of CO_2 equivalent	53.34	61.31	37.58
碳强度 Carbon Intensity	吨二氧化碳当量 / 万元 Tons of CO_2 equivalent/10,000 yuan	0.94	0.94	0.95
年度新鲜水用水量 Annual Fresh Water Consumption	万吨 10,000 tons	256.21	325.75	303.35
单位工业增加值新鲜水耗 Fresh Water Consumption per Unit of Industrial Added Value	立方米 / 万元 Cubic meters/ 10,000 yuan	16.33	11.48	12.85
废水排放量 Wastewater Discharge	吨 Tons	63.36	68.36	31.99
二氧化硫排放量 Sulfur Dioxide Emissions	吨 Tons	90.39	92.16	62.47
化学需氧量排放量 Chemical Oxygen Demand Emissions	吨 Tons	70.17	71.49	59.58
氮氧化物排放量 Nitrogen Oxide Emissions	吨 Tons	157.62	161.07	75.22

指标 Indicators	单位 Unit of measurement	2025	2024	2023
氨氮排放量 Ammonia Nitrogen Emissions	吨 Tons	24.75	25.61	26.07
中水循环使用量 Reclaimed Water Recycling Volume	万吨 10,000 tons	1,420.89	1,881.64	1,711.41
安全检查次数 Number of Safety Inspections	次 Times	1,439	1,401	1,777
应急演练次数 Number of Emergency Drills	次 Times	364	381	311
应急演练职工参与人次 Employee Participation in Emergency Drills	人次 Person-times	6,600	7,325	5,932
员工总数 Employees	人 Persons	22,214	23,539	27,364
外籍员工 Expatriate Employees	人 Persons	7,626	8,593	8,544
劳动合同签订率 Labor Contract Signing Rate	%	100	100	100
社会保险缴纳率 Social Insurance Coverage Rate	%	100	100	100
公益捐赠 Domestic Philanthropic Donations	万元 10,000 yuan	1,312.59	949.03	869.39
帮扶工作总投入金额 Total Investment in Support Work	万元 10,000 yuan	1,441.3	1,335.163	1,515.649
帮扶工作惠及人数 Number of People Benefiting from Support Work	人 Persons	350,235	332,635	336,645
海外公司当地员工比例 Proportion of Local Employees in Overseas Companies	%	99	99	99.5
员工流失率 Employee Turnover Rate	%	3.43	5	9
职业培训投入 Investment in Vocational Training	万元 10,000 yuan	433.84	320.99	434.12
职业培训人次 Number of Vocational Training Participants	人次 Person-times	69,965	72,539	78,016
女性管理者比例 Proportion of Female Managers	%	14.46	14.77	15.05
吸纳就业人数 Number of Jobs Created	人 Persons	203	916	1,390
体检及健康档案覆盖率 Physical Examination and Health Record Coverage Rate	%	100	100	100
年均带薪年休假天数 Average Annual Paid Leave Days	天 Days	4	4.8	5.2
因工受伤数 Number of Work-Related Injuries	人 Persons	1	1	4
固体废弃物排放量 Volume of Solid Waste Discharged	万吨 10,000 tons	423.99	593.10	228.64

指标 Indicators	单位 Unit of measurement	2025	2024	2023
固体废物综合利用率 Comprehensive Utilization Rate of Solid Waste	%	37.89	55.49	91.07
危险废物合规处置率 Compliance Rate for Hazardous Waste Disposal	%	100	100	100
采矿回采率* Mining Recovery Rate *	%	89.23	88.86	88.74
选矿回收率* Ore Dressing Recovery Rate *	%	93.55	92.70	93.81
绿色工厂数量 Number of Green Factories	家 Units	2	2	2
守法合规培训次数 Number of Compliance Training Sessions	次 Times	4	10	11
守法合规培训时长 Duration of Compliance Training	小时 Hours	16	25	30
反商业贿赂及反贪污培训次数 Number of Anti-Commercial Bribery and Anti-Corruption Training Sessions	次 Times	2	1	2
反商业贿赂及反贪污培训时长 Duration of Anti-Commercial Bribery and Anti-Corruption Training	小时 Hours	4	2	4
投诉解决率* Complaint Resolution Rate *	%	100	100	100
审查的供应商数量* Number of Suppliers Reviewed *	个 Units	4,153	4,378	3,526
因不合规被中止合作的供应商数量* Number of Suppliers Whose Cooperation was Terminated Due to Non-Compliance *	个 Units	4	0	7
因不合规被否决的潜在供应商数量* Number of Potential Suppliers Disqualified Due to Non-Compliance *	个 Units	2	0	0
供应商通过 ISO 14000 体系认证的比率* Proportion of Suppliers Certified Under ISO 14000 *	%	31.6	26.7	25.1
供应商通过 OHSA S1800 体系认证的比率* Proportion of Suppliers Certified Under the OHSA S1800 System *	%	29.1	26.7	20.3
供应商 ESG 培训次数* Number of ESG Training Sessions for Suppliers *	次 Times	10	12	17
供应商 ESG 培训时长* Duration of ESG Training for Suppliers *	小时 Hours	72	60	50

* 为中钢山东矿业、中钢富全矿业、中钢刘塘坊矿业、中钢赤峰矿业 4 家子公司的平均值。
The average value for the four subsidiaries: Sinosteel Shandong Mining Co., Ltd., Sinosteel Shandong Fuquan Mining Co., Ltd., Sinosteel Anhui Liutangfang Mining Co., Ltd., and Sinosteel Chifeng Jinxin Mining Co., Ltd.

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一图读懂

《中国中钢集团有限公司 2025 年可持续发展报告》评级报告

一、评级结果



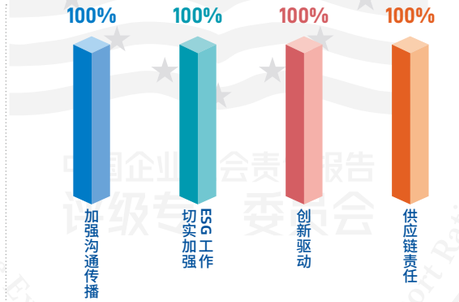
《中国中钢集团有限公司 2025 年可持续发展报告》（以下简称《报告》）为**五星级**，是一份卓越的企业可持续发展报告。

评级结果	评级图示	发展水平
五星佳	★★★★★+	典范
五星级	**★★★★★**	**卓越**
四星半级	★★★★☆	领先
四星级	★★★★	优秀
三星级	★★★	良好
二星级	★★	发展
一星级	★	起步

二、亮点绩效

过程性 ★★★★★
实质性 ★★★★★
完整性 ★★★★☆
平衡性 ★★★★★
可比性 ★★★★★
可读性 ★★★★★
创新性 ★★★★★

《报告》的过程性、实质性、平衡性、可比性、可读性、创新性达到五星级，完整性达到四星半级。



《报告》系统披露了所在行业核心指标的 83.02%，其中责任管理维度下加强沟通传播、切实加强 ESG 工作，本质责任维度下创新驱动，社会责任维度下供应链责任等议题的核心指标覆盖率最高，均达 100%。



《报告》详细披露了 72 个关键指标连续 3 年的对比数据，其中本质责任维度下创新驱动，社会责任维度下员工责任，环境责任维度下资源利用议题连续 3 年可比数据披露最为充分。

三、改进建议

增加行业核心指标的披露，提高报告的完整性。

四、评级勋章

中国中钢集团有限公司连续 15 年参与报告评级，连续 2 年获得五星级，获黄金级勋章。

报告评级趋势





《中国中钢集团有限公司 2025 年可持续发展报告》评级报告

受中国中钢集团有限公司连续 15 年委托，“中国企业社会责任报告评级专家委员会”抽选专家组成评级小组，对《中国中钢集团有限公司 2025 年可持续发展报告》（以下简称《报告》）进行评级。

一、评级依据

1.《企业可持续披露准则——基本准则（试行）》；

2.《中国企业社会责任报告指南（CASS-CSR 4.0）》；

3.《中国企业可持续发展报告评级标准（2026）》。

二、评级分析

过程性（★★★★★）

公司成立社会责任工作领导小组，统筹推进社会责任工作；围绕报告编制开展前期研究，构建并持续完善可持续发展指标体系；召开报告编制启动培训会，编制报告资料收集清单，收集大量资料，确保报告内容全面、准确；构建“1+N+M”可持续发展报告体系，提高可持续发展管理能力；计划通过集团集中发布活动对报告进行二次发布，并以纸质版和 PDF 版形式呈现报告，过程性表现卓越。

实质性（★★★★★）

《报告》系统披露了应对气候变化、污染物排放、生物多样性和土地利用、水资源利用、提高采矿回采及选矿回收效率、智能化矿山开采、可持续供应链、产品和服务安全与质量、职业健康与安全生产、可持续治理机制、反商业贿赂及反贪污等所在行业关键性议题，叙述详细充分，其中提高采矿回采及选矿回收效率、可持续治理机制、职业健康与安全生产三项议题篇幅最多，分别为 6 页、6 页、4 页，具有卓越的实质性表现。

完整性（★★★★☆）

《报告》主体内容从“笃行实干，为企业创造优质绩效”“绿动未来，为环境绘就绿色画卷”“聚才育英，为员工搭建发展舞台”“责任同行，为社会贡献更大价值”等角度系统披露了所在行业核心指标的 83.02%，其中责任管理维度下加强沟通传播、切实加强 ESG 工作，本质责任维度下创新驱动，社会责任维度下供应链责任等议题的核心指标覆盖率最高，均达 100%，完整性表现领先。

平衡性（★★★★★）

《报告》披露了“员工流失率”“因工受伤数”“所属企业污染事件”等负面数据信息，并简述“未发生重大劳动争议案件”“不存在扰乱市场竞争秩序、损害其他经营者合法权益等不正当竞争行为”等情况，详细描述了严守环保合规要求，落实全面整改举措，具有卓越的平衡性表现。

可比性（★★★★★）

《报告》详细披露了“营业收入”“资产总额”“研发投入”“安全培训人次”“环保投入”“能源消耗总量”等 72 个关键指标连续 3 年的对比数据；其中本质责任维度下创新驱动，社会责任维度下员工责任，环境责任维度下资源利用议题连续 3 年可比数据披露最为充分，分别为 8 组、10 组、8 组；通过“2025 年安徽省创新方法大赛一等奖”“辽宁省科学技术进步奖一等奖”进行横向比较，可比性表现卓越。

可读性（★★★★★）

《报告》逻辑清晰、结构完整，全面阐述了企业年度履责实践与成效；章节跨页采用插图，嵌入叙述性引言，提纲挈领，有利于读者快速了解章节内容；多处嵌入二维码进行影像化延伸，提高了报告的传播力；以丰富的案例向公众展示履责成果，强化了报告的传播性和沟通力，具有卓越的可读性表现。

创新性（★★★★★）

《报告》设置“锚定铬产业全球引领者，提升小金属资源产业战略价值”“践行创新驱动发展战略，加快高水平科技创新自立自强”责任专题，聚焦企业履责亮点，彰显了企业的责任担当；推动下属上市公司发布可持续发展报告，构建多形态、多层次报告体系；积极参加社会责任、ESG 培训，增强社会责任工作能力；以利益相关方证言形式呈现企业履责成效，强化了报告的传播力与公信力，具有卓越的创新性表现。

三、综合评级 ★★★★★

经评级小组评价，《中国中钢集团有限公司 2025 年可持续发展报告》为五星级，是一份卓越的企业可持续发展报告。

评级结果	评级图示	发展水平
五星佳	★★★★★+	典范
五星级	**★★★★★**	**卓越**
四星半级	★★★★☆	领先
四星级	★★★★	优秀
三星级	★★★	良好
二星级	★★	发展
一星级	★	起步

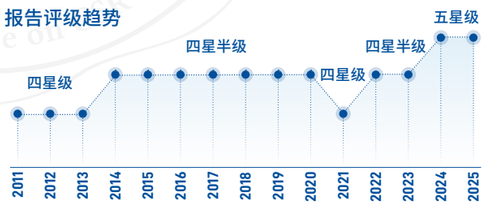
四、改进建议

增加行业核心指标的披露，提高报告的完整性。

五、评级勋章

中国中钢集团有限公司连续 15 年参与报告评级，连续 2 年获得五星级，获黄金级勋章。

报告评级趋势





扫码查看评级档案

评级专家委员会副主席

评级小组组长　评级小组专家

出具时间：
2026 年 7 月 27 日

One-Graph Guide

Rating Report for the *Sinosteel Group Corporation Limited 2025 Sustainability Report*

I. Rating Result



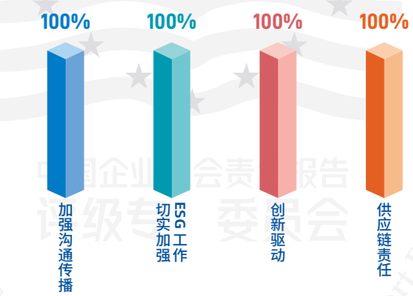
The *Sinosteel Group Corporation Limited 2025 Sustainability Report* (hereinafter referred to as the "Report") is rated as **Five Star**, representing an outstanding corporate sustainability report.

Rating Result	Rating Icon	Development Level
Five Star Excellence	★★★★★ +	Model
Five Star	**★★★★★**	**Outstanding**
Four and a Half Star	★★★★☆	Leading
Four Star	★★★★	Advanced
Three Star	★★★	Good
Two Star	★★	Developing
One Star	★	Foundational

II. Performance Highlights

Process	★★★★★
Materiality	★★★★★
Completeness	★★★★☆
Balance	★★★★★
Comparability	★★★★★
Readability	★★★★★
Innovativeness	★★★★★

The Report achieves Five Star ratings in process, materiality, balance, comparability, readability, and innovativeness, and a Four and a Half Star rating in completeness.



The Report systematically disclosed 83.02% of the core indicators across its industry with the highest coverage rates achieved for key metrics in three dimensions: enhanced communication and effective ESG implementation under responsibility management; innovation-driven development under essential responsibilities; and supply chain accountability under social responsibilities, all of which reached 100%.



The Report provides detailed comparative data for 72 key indicators over three consecutive years, with the most comprehensive disclosures covering innovation-driven performance under the essential responsibility dimension, employee accountability under the social responsibility dimension, and resource utilization issues under the environmental responsibility dimension.

III. Suggestions for Improvement

Expand the disclosure scope of key industry metrics and improve the completeness of the Report.

IV. Rating Medal

Sinosteel Group Corporation Limited has participated in the Report rating for 15 consecutive years, achieving a five-star rating for two consecutive years and receiving the Gold-class Badge.

报告评级趋势





Rating Report for the *Sinosteel Group Corporation Limited 2025 Sustainability Report*

At the request of Sinosteel Group Corporation Limited for 15 consecutive years, the "Chinese Expert Committee on CSR Report Rating" selected experts to form a rating panel to evaluate the "Sinosteel Group Corporation Limited 2025 Sustainability Report" (hereinafter referred to as the "Report").

I. Rating Criteria

1. *Corporate Sustainable Disclosure Standards - Basic Standards (Trial);*
2. *China Corporate Social Responsibility Reporting Guidelines (CASS-CSR 4.0);*
3. *Standards for Chinese Enterprise Sustainability Report Ratings (2026).*

II. Rating Analysis

Process (★★★★★)

The company established a Social Responsibility Work Leadership Group to coordinate and advance social responsibility initiatives; conducted preliminary research for report preparation, developing and continuously refining a sustainability indicator system; organized a kick-off training session for report compilation, developed a data collection checklist, gathered extensive materials to ensure comprehensive and accurate content; established a "1+N+M" sustainability reporting framework to enhance management capabilities; plans to release the Report again through group-wide distribution events in both print and PDF formats, demonstrating outstanding implementation throughout the process.

Materiality (★★★★★)

The Report systematically addresses material topics, including climate change response, pollutant emissions, biodiversity and land use, water resource management, improving mining recovery and mineral processing efficiency, intelligent mining operations, sustainable supply chains, product and service safety/quality, occupational health and safety, sustainable governance mechanisms, and anti-commercial bribery and corruption efforts, presenting comprehensive coverage. Among these topics, the sections on mining and processing recovery efficiency, sustainable governance mechanisms, and occupational health and safety are the most extensive, covering 6 pages, 6 pages and 4 pages respectively, reflecting outstanding material disclosure.

Completeness (★★★★☆)

The main content of the Report systematically covers 83.02% of the industry's core indicators across several key dimensions: "Diligence and Concrete Actions Delivered Outstanding Performance for the Enterprise", "Green Initiatives Powered the Future and Painted a Green Landscape for the Environment", "The Gathering and Nurturing of Talents Built a Stage for Employee Development", and "Partnered with Responsibility and Contributed Greater Value to Society". Among these, the coverage rates for core indicators were highest in three dimensions: enhanced communication and effective ESG implementation under responsibility management; innovation-driven development under essential responsibilities; and supply chain accountability under social responsibilities, all of which reached 100%, demonstrating leading completeness.

Balance (★★★★★)

The Report disclosed negative data such as "employee turnover rate", "number of work-related injuries", and "pollution incidents of affiliated enterprises", while noting that "no significant labor dispute cases occurred" and "there are no acts of unfair competition practices that disrupted market competition order or harm the legitimate rights and interests of other operators". It further detailed the strict adherence to environmental compliance requirements and the implementation of comprehensive rectification measures, demonstrating an outstanding balance in its presentation.

Comparability (★★★★★)

The Report provides detailed comparative data for 72 key indicators–including "operating revenue", "total assets", "R&D investment", "number of safety training attendances", "environmental protection investment", and "total energy consumption"–over three consecutive years. Among these, the disclosure of comparable data has been most comprehensive for three years in the dimensions of innovation-driven performance (essential responsibility), employee accountability (social responsibility), and resource utilization issue (environmental responsibility): 8 sets, 10 sets, and 8 sets, respectively. When compared with awards such as the "First Prize of the 2025 Anhui Provincial Innovation Method Competition" and the "First Prize of the Liaoning Provincial Science and Technology Progress Award", the Report demonstrates outstanding comparability.

Readability (★★★★★)

The Report features clear logic and a comprehensive structure, providing a thorough overview of the company's annual practices and achievements in fulfilling its corporate responsibilities. Each chapter incorporates illustrations spanning multiple pages along with narrative introductions, offering a concise summary that enables readers to grasp the content quickly. Multiple QR codes are embedded throughout to provide visual extensions, enhancing the accessibility of the Report. Rich case studies are presented to demonstrate these outcomes, strengthening the Report's communicative impact and readability, demonstrating outstanding readability.

Innovativeness (★★★★★)

The Report features dedicated sections titled "Anchored the Goal of Becoming a Global Leader in the Chromium Industry and Enhanced the Strategic Value of Specified Metal Resources other than Iron Ore" and "Implemented the Innovation-driven Development Strategy and Accelerated High-level Scientific and Technological Self-reliance and Strength", highlighting corporate accountability achievements and demonstrating corporate responsibility. It encourages its listed subsidiaries to publish sustainability reports, establishing a multi-dimensional, multi-level reporting framework; actively participates in social responsibility and ESG training programs to strengthen related capabilities; and presents corporate accountability outcomes through stakeholder testimonies, enhancing the Report's communicative impact and credibility, a hallmark of outstanding innovation.

III. Composite Rating ★★★★★

According to the rating panel's evaluation, the *Sinosteel Group Corporation Limited 2025 Sustainability Report* has been awarded Five Star, making it an outstanding corporate sustainability report.

Rating Result	Rating Icon	Development Level
Five Star Excellence	★★★★★ +	Model
Five Star	**★★★★★**	**Outstanding**
Four and a Half Star	★★★★☆	Leading
Four Star	★★★★	Advanced
Three Star	★★★	Good
Two Star	★★	Developing
One Star	★	Foundational

IV. Suggestions for Improvement

Expand the disclosure scope of key industry metrics and improve the completeness of the Report.

V. Rating Medal

Sinosteel Group Corporation Limited has participated in the Report rating for 15 consecutive years, achieving a five-star rating for two consecutive years and receiving the Gold-class Badge.

报告评级趋势





Scan the QR code to view the rating profile

Vice Chairman of the Chinese Expert Committee on CSR Report Rating

Rating Team Leader

Rating Team Expert

Issuance date:
July 27, 2026

意见反馈
Feedback

亲爱的读者 Dear Readers:

中钢集团非常关心您对这份可持续发展报告的意见，为了持续提升社会责任相关管理工作，恳请您协助完成意见反馈表中的相关问题，并选择以下方式反馈给我们：

Sinosteel sincerely values your feedback on this Sustainability Report. To continuously improve our social responsibility management, we kindly request your assistance in completing the relevant questions in the feedback form and returning it to us via one of the following methods:

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您的信息 Your Information

姓名 Name: _____ 工作单位 Organization: _____

联系电话 Tel: _____ 邮箱地址 E-mail: _____

开放性问题 Open-ended Questions

您对中钢集团可持续发展工作有哪些建议?
What suggestions do you have for Sinosteel's sustainable development work?

您认为本报告存在哪些不足之处?
What shortcomings do you perceive in this report?

您认为本报告为您提供了哪些有价值的可持续发展信息?
What valuable sustainability information do you believe this report provides to you?

您认为本报告还需要增加披露哪些可持续发展信息?
What additional sustainability information do you think this report should disclose?

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