

# 【华】章序曲 携【友】致远

——2024年可持续发展亮点报告





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# 关于华友

About Huayou

#### 公司简介

**Company Profile** 

浙江华友钴业股份有限公司(SH603799)成立于 2002 年,总部位于浙江桐乡,中国企业 500 强,中国民营企业 500 强,是一家从事新能源锂电材料和钴新材料研发、制造的高新技术企业。

经过二十多年的发展,公司构建了海外资源、国际制造、全球市场的经营格局;打造了新能源产业、新材料产业、印尼镍产业、非洲资源产业以及循环产业五大事业板块;业务涵盖镍钴锂铜资源开发、有色金属绿色精炼、锂电材料研发制造、资源回收利用的新能源锂电材料全产业链。

公司以创造客户价值、引领产业发展为使命,坚定上控资源、下拓市场、中提能力的转型之路,坚持"两新三化"的发展战略。作为世界新能源锂电材料绿色制造一体化的领先企业和 ESG 上市公司行动样本,华友始终致力于成为全球新能源锂电材料领导者,推动绿色可持续发展、创造人类更加美好未来。

Zhejiang Huayou Cobalt Co., Ltd. (SH603799), founded in 2002 and headquartered in Tongxiang, Zhejiang Province, is a high-tech enterprise engaged in the research and development and manufacturing of new energy lithium power materials and cobalt new materials.

After more than 20 years of development, the Company has built a business pattern of overseas resources, international manufacturing and global market. It has created five major business sectors: New Energy Industry, New Material Industry, Indonesian Nickel Industry, African Resource Industry and Recycling Industry. The business covers the whole industrial chain of new energy lithium power materials, including nickel, cobalt, lithium and copper resource development, green refining of non-ferrous metals, research and development and manufacturing of lithium power materials, and resource recycling.

With the mission of creating customer value and leading industrial development, the Company firmly controls resources, expands markets and improves capabilities, and adheres to the development strategy of "Two New Areas and Three Trends". As a leading enterprise in the world's green manufacturing integration of new energy lithium power materials and an action sample of ESG listed companies, Huayou has always been committed to becoming a global leader in new energy lithium power materials, promoting green sustainability and creating a better future for mankind.



华友始终致力于成为全球新能源锂电材料领导者, 推动绿色可持续发展、创造人类更加美好未来。

Huayou has always been committed to becoming a global leader in new energy lithium power materials, promoting green sustainability and creating a better future for mankind.



#### 集团荣誉

Corporate Honors



### 500强

中国企业

**Top 500** Chinese Enterprises

#### 100 大

中国跨国公司

**Top 100** Chinese Multinationals

#### 500 强

全球新能源企业

Global **Top 500** New Energy Enterprises

#### 领军企业

浙江省民营经济总部

**Leading Enterprise** of Zhejiang Private Economy Headquarters

# 500 强

中国民营企业

**Top 500** Private Enterprises in China

#### 100 强

中国战略性新兴产业领军企业

**Top 100** Leading Enterprises in China's Strategic Emerging Industries

#### 500 强

中国民营企业研发投入

China's **Top 500** Private Enterprises in R&D Investment

#### 中证 A50

指数样本

Sample of **CSI A50** Index

### 华友印尼 IPIP 工业园上榜"新认定省级境外经贸合作区"名单, 为浙江省唯一

Huayou Indonesia IPIP Industrial Park is the only one in Zhejiang
Province on the list of "newly recognized provincial overseas economic
and trade cooperation zones"

#### 500 强

中国制造业企业

**Top 500** Chinese Manufacturing Enterprises

#### 500 强

《财富》中国

Fortune **500** 

### 500 强

浙商全国

**Top 500** Zhejiang Merchants

#### "标准先锋奖"

BSI

BSI

**Standard Pioneer Award** 

# 2023 年度浙江省管理对标 提升标杆企业

2023 Zhejiang Management Benchmarking and Improving Benchmark Enterprise

# 科研成果

BSI Standard Pioneer Award

» 华友荣获国家科学技术进步**二等奖** 

Huayou won **the second prize of the National** Science and Technology Progress Award

华越镍钴(印尼)有限公司检测中心通过 CNAS 评审,获得实验室认可证书
 PT. HUAYUE NICKEL COBALT Testing Center has passed the CNAS review and obtained the laboratory accreditation certificate

» 华友"废旧三元锂电池短流程再生利用与污染控制技术",入选《国家先进污染防治技术目录》 Huayou's "waste ternary lithium battery short process recycling and pollution control technology" was selected into the National Catalogue of **Advanced Pollution Prevention Technologies** 

» 华友荣获 "制造业单项冠军企业"

Huayou has been honored as a "Manufacturing Single Champion Enterprise"

» 华友产四氧化三钴荣获 "制造业单项冠军产品"

Huayou's tetraoxide product has been awarded the **"Manufacturing Single Champion Product"** title

» 华友荣获 ISO 56005 "创新与知识产权管理能力 3 级评价证书"

Huayou has obtained ISO 56005 "Innovation and Intellectual Property Management Capability Level 3 Evaluation Certificate"

# ESG 专项荣誉

#### "领跑者"

2024 中国工业碳达峰

2024 China's industrial carbon peak "leader"

#### 绿色低碳发展典型案例

2024 年度全国民营企业

2024 National Private Enterprise Green and **Low-Carbon Development Model Cases** 

#### 最佳实践案例

中国上市公司共建"一带一路"十年百篇

Chinese Listed Companies' "Belt and Road" Ten-Year 100 Best Practice Cases

#### 绿色低碳典型案例

浙江省制造业

Zhejiang Province's Typical Cases of **Green** and Low-Carbon Manufacturing

#### 优秀案例

2024 浙江省企业社会责任报告

2024 Zhejiang Province Corporate Social Responsibility Report Outstanding Cases

#### 100 榜单

2024 全球浙商 ESG 经典案例

2024 Global Zhejiang Entrepreneurs ESG Classic Case Top 100 List

#### 中国 ESG 影响力榜

2024年《财富》

The 2024 Fortune China ESG **Impact List** 

#### 韩国国会表彰

华友获评

Huayou is commended by the National **Assembly of South Korea** 

#### 领先企业

2023 浙江民营企业社会责任

Top 2023 Zhejiang Private Enterprises in Social Responsibility

#### 100 名企业

浙江上市公司 ESG 绩效最佳

Zhejiang Listed Companies' **Top 100** ESG Performance Enterprises

#### 中国 ESG 标杆企业奖

2024 国际电子工业联接协会(IPC)

2024 International Electronics Industry Association (IPC) China ESG **Benchmark Enterprise Award** 

#### 国内首张新能源汽车动力电池梯次利用产品认证证书

江苏华友能源荣获

Jiangsu Huayou Energy has been awarded the first domestic certificate for the cascade utilization of new energy vehicle power batteries

#### 世界循环经济论坛优秀循环经济案例

华友循环入选

Huayou Recycling has been selected as an outstanding circular economy case study by the World Circular Economy Forum

#### "SMK3 职业安全健康"金色证书

华越镍钴(印尼)有限公司荣获印尼劳工部颁发的

PT. HUAYUE NICKEL COBALT has been awarded the "SMK3 Occupational Safety and Health" gold certificate by the Indonesian Ministry of Labor

#### 2024 年印尼证券交易所 ESG 原材料类别主要奖项

华友印尼荣获

Huayou Indonesia has won the main **ESG award in the raw materials** category at the Indonesia Stock Exchange in 2024

### 可持续发展管治

**Sustainability Governance** 

华友坚信可持续发展是公司创造长远价值、提升行业竞 争力的基石,不断推动可持续发展理念与企业经营管理 的深度融合,构建具有华友特色的可持续发展管治体系 并持续优化。我们致力于通过完善的可持续发展治理体 系为我们的员工、利益相关方和所在社区提供可持续的 价值,为人类命运共同体的发展贡献华友力量。

为实现更有效的可持续发展管治,我们增强董事会和管 理层在集团 ESG 工作中的参与度,形成四级 ESG 管治 架构,明确了各层级职责,并定期对相关工作实施情况 进行监督与审议。

Huayou firmly believes that sustainability serves as the foundation for creating long-term value and bolstering industry competitiveness. The Company consistently promotes the seamless integration of sustainability principles into its operations and management, establishing and continually refining a sustainability governance system with distinct Huayou characteristics. We are dedicated to delivering sustainable value to our employees, stakeholders, and communities through robust sustainability governance system, and contributing to the advancement of a shared future for humanity.

To achieve more effective sustainability governance, we bolster the involvement of the Board and management in the Group's ESG initiatives by establishing a four-tier ESG governance structure. Within this framework, we clearly delineate the responsibilities of each tier and conduct regular monitoring and evaluations of the implementation of related work.



#### 决策层 Board Oversight

• 董事会是公司 ESG 与可持续发展管理的最高决策与责任机构,负责监督并审批公司 ESG 与可持续发展方针 及相关重大事项。

The Board of Directors serves as the ultimate decision-making and accountable body for the Company's ESG and sustainability management, overseeing and approving the Company's ESG policies and related major matters.

• 战略委员会负责研究公司长期战略、重大投资、发展关键事项,提出 ESG 与可持续发展领域的建议并监督 实施,向董事会汇报。

The Strategy Committee is responsible for researching the Company's long-term strategies, significant investments, and key development issues, proposing ESG-related recommendations, supervising their implementation, and reporting to the Board of Directors.

#### 管理层 Management Oversight

• ESG 与可持续发展管理委员会负责制定 ESG 策略,落实 ESG 管理政策,定期召开工作进展审阅会议,研究 ESG 议题,监控相关绩效,更新、优化并提升 ESG 治理。

The ESG and Sustainable Development Management Committee is responsible for formulating ESG strategies, implementing ESG management policies, and convening regular progress review meetings to delve into ESG issues, monitor related performance, and update, optimize, and enhance ESG governance.

#### 执行层 Execution Oversight

• ESG 与可持续发展部由专业人员构成,协调专业小组执行 ESG 计划,识别监控 ESG 风险,跟踪 ESG 表现, 披露可持续发展信息。

The ESG and Sustainable Development Department comprises professionals who coordinate with specialized teams to execute ESG programs, identify and monitor ESG risks, track ESG performance, and disclose sustainable development information.

# 可持续发展战略

**Sustainability Strategy** 

在全球对可持续发展的关注不断上升的背景下,华友深刻认识到可持续发展不仅是新能源行业发展的必然选择,也是应对全球能源结构变革和气候变化挑战的核心策略。在当前运营管理中,公司正持续深化 ESG 规划和管理体系。通过制定并实施覆盖气候、污染、生物多样性、负责任供应链等多个领域的《华友钴业 ESG 政策》,公司将实现可持续发展管理的一致性、多元性、稳健性。未来,华友将继续推进 ESG 规划与管理体系项目,以实现所设立的短、中及长期目标,助力全球可持续发展。

In the context of rising global attention to sustainability, Huayou profoundly recognizes that sustainability is not only an inevitable path for the development of the new energy industry but also a pivotal strategy to address the challenges posed by shifts in the global energy structure and climate change. The Company is continuously enhancing its ESG planning and management system within its current operational framework. By formulating and executing the Huayou Cobalt ESG Policy, which spans areas such as climate, pollution, and biodiversity, the Company aims to achieve consistency, diversity, and robustness in its sustainability management. Looking ahead, Huayou remains committed to advancing its sustainability planning and management system project to meet its established short, medium, and long-term goals and to contribute to global sustainability efforts.

#### 短期目标(2022-2024) Short-term goals (2022-2024)

在总部和各产业集团全面建成并运行 ESG 管理体系,并在公司风险管理和治理框架中嵌入 ESG 内容,让 ESG 成为企业核心竞争力

To establish and operationalize an ESG management system across our headquarters and industrial groups, integrate ESG content into our risk management and governance structure, and make ESG be a core competency of the enterprise

#### 中期目标(2025-2030) Medium-term goals (2025-2030)

公司重点项目对标 国际最佳实践,持续提升 ESG 标准和绩效表现

To benchmark our key projects against international best practices and continuously enhance ESG standards and performance

#### 长期目标 Long-term goals

遵循产品高端化、产业一体化、经营国际化的战略路径,坚持绿色低碳发展理念,引领全球新能源 锂电材料产业可持续发展,助力人类社会低碳经济转型

To lead the sustainable development of the global new energy lithium-ion battery material industry and contribute to the transformation towards a low-carbon economy society by adhering to the strategic path of high-end product development, industrial integration, and internationalized operations, and upholding the green and low-carbon development philosophy















随着全球气候变化问题日益严峻,积极应对气候变化、迈向零碳未来已经成为全球性的共识与行动。作为新能源锂电材料行业的领先企业,华友深刻认识到自身的减排责任,将低碳理念融入公司整体战略。我们通过制定明确的专项规划与 行动事项,稳步推进温室气体减排,为低碳未来做出贡献。

In the face of the escalating issue of global climate change, actively tackling this challenge and striving for a zero-carbon future has emerged as a universal consensus and collective endeavor. As a pioneering enterprise within the new energy lithium power material industry, Huayou profoundly acknowledges its duty towards emission reduction, seamlessly integrating the low-carbon concepts into its corporate strategy. Through the formulation of clear, specialized plans and actionable steps, we have steadily progressed in reducing greenhouse gas emissions, thereby contributing to a low-carbon future.

### 碳中和战略规划

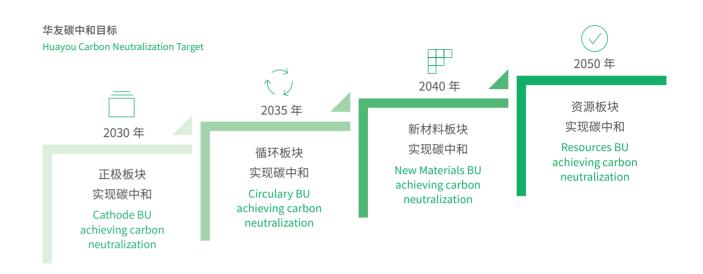
**Carbon Neutrality Strategic Planning** 

打造绿色华友,以可持续支撑公司高质量发展,是公司重要发展战略。公司坚定上控资源、下拓市场、中提能力的转型之路;坚持"两新三化"的发展战略。华友集团以高质量发展响应国家"双碳"号召,践行绿色发展路径,构建从"镍钴锂粗制材料—精炼—前驱体产品—三元正极产品—循环回收"一体化绿色低碳产业链,致力成为新能源锂电材料行业领先的零碳绿色企业,为客户创造价值,引领新能源锂电材料行业绿色发展。

Building a green Huayou, supporting the Company's high-quality development with sustainability, is an important strategic development direction for the Company. The Company is firmly committed to the transformation path of controlling resources upstream, expanding markets downstream, and enhancing capabilities in the middle; and adheres to the development strategy of "Two New Areas and Three Trends". Huayou Group responds to the national "dual carbon" initiative with high-quality development, practices a green development path, and builds an integrated green low-carbon industrial chain from "nickel-cobalt-lithium raw materials—refining—precursor products—ternary cathode products—recycling", striving to become a leading zero-carbon green enterprise in the new energy lithium battery material industry, creating value for customers, and leading the green development of the new energy lithium battery material industry.

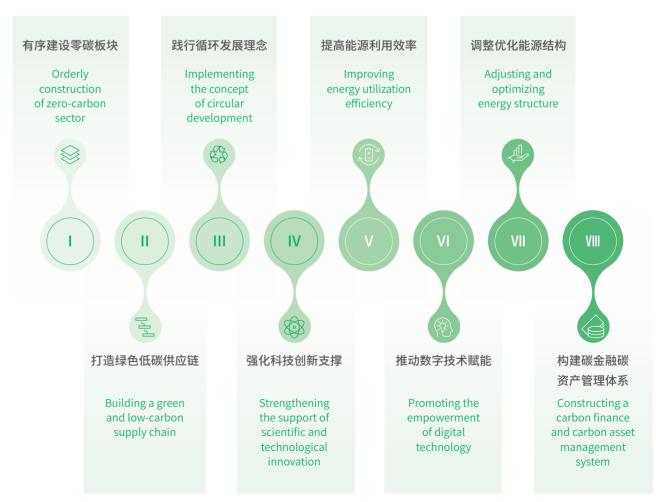
华友以"到 2050 年努力实现全价值链碳中和"为总体愿景,针对正极、循环、再生、新材料和资源板块设立细化目标。为更好成为"零碳未来"的践行者、推动者,我们确立明晰的碳中和路径和行动措施,致力于做新能源时代的引领者。报告期内,为实现碳中和目标,华友开展了"降碳""减碳""低碳"三大工程。"降碳"方面,我们积极开展一系列项目以降低直接排放;"减碳"方面,我们高效实施清洁电力发展规划以减少间接排放;"低碳"方面,我们大力推进低碳供应链建设。

Huayou has adopted "striving for carbon neutrality by 2050" as its overarching vision, establishing differentiated targets for the cathode materials, recycling, new materials, and resources sectors. To better embody and propel the vision of a "zero-carbon future", we have mapped out a clear roadmap to carbon neutrality and identified the key actions to ensure the comprehensive implementation of our strategic plan, committing ourselves to being a leader in the new energy era. During the Reporting Period, to achieve the goal of carbon neutrality, Huayou has launched three major projects of "carbon reduction", "carbon decrease" and "low carbon". In terms of "carbon reduction," we have actively carried out a series of projects to reduce direct GHG emissions. In terms of "carbon decrease," we have efficiently implemented Clean Power Plan to reduce indirect GHG emissions; and in terms of "low carbon", we have vigorously promoted the construction of a low-carbon supply chain.



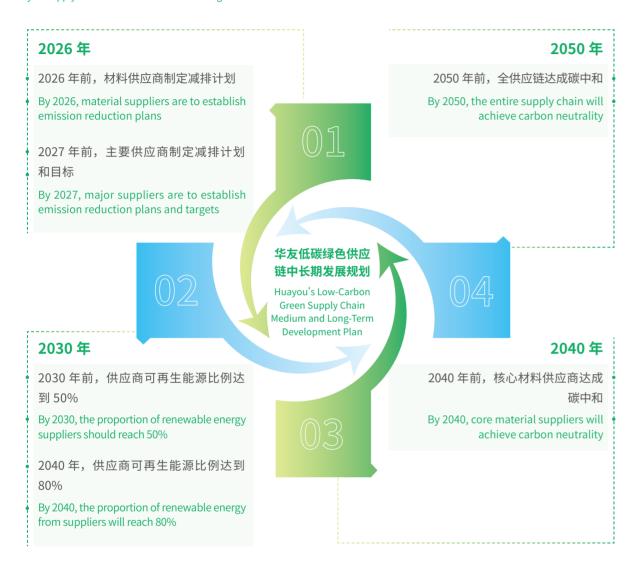
#### 华友碳中和八大行动

Huayou's Actions on Carbon Neutral



#### 华友供应链碳中和目标

Huayou Supply Chain Carbon Neutralization Target



# 温室气体排放管理体系

Greenhouse Gas Emission Management System

华友遵循国际标准建立了全面的温室气体排放管理体系,制定《温室气体盘查程序》等内部制度,并采用数字化、 信息化技术赋能管理提升。 Huayou has established a comprehensive greenhouse gas emission management system in compliance with international standards. We have formulated internal procedures such as the *Greenhouse Gas Inventory Process* and leveraged digital and information technology to facilitate management and continuous improvement.

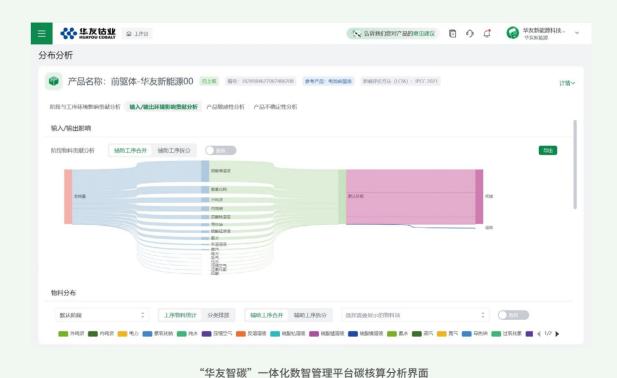
#### 案例 CASE

#### "华友智碳"一体化数智管理平台

"Huayou Intelligent Carbon" Integrated Digital Intelligent Management Platform

该智能数字化平台实现了对公司能碳管理和碳核算分析能力的整合,以国际认可的全生命周期评价(LCA)方法论为基准,完整涵盖了从镍钴矿开采到电池回收的 LCA 模型,并配套权威背景数据库,实现了对主要产品全生命周期的碳足迹研究。公司通过该平台可实现锂电材料从矿产到正极材料的全流程碳数据量化和平台管理,建立各业务板块和分子公司的驾驶舱碳管理,实现组织碳排放精细化、数字化管理,从而识别出重大减碳环节。主要产品碳足迹较 2022 年下降了 10%,为客户提供低碳绿色产品。

The intelligent digital platform integrates the Company's capabilities in carbon management and carbon accounting analysis. Based on the internationally recognised life cycle assessment (LCA) methodology, the platform comprehensively encompasses the LCA model from nickel and cobalt mining to battery recycling, and is backed by an authoritative database to facilitate comprehensive carbon footprint research across the entire lifecycle of key products. The Company can undertake refined and systematic management of energy consumption, carbon emissions, and product carbon footprints through this platform, effectively pinpointing key areas for carbon reduction. The carbon footprint of the main products has decreased by 10% compared to 2022, providing customers with low-carbon green products.



十人自城 体门数目自建于自城权并为彻外国

"Huayou Intelligent Carbon" Integrated Digital Intelligent Management Platform

截至报告期末,华友共新增16家分子公司获得ISO 14064 温室气体排放核查声明,新增硫酸镍、硫酸钴、 四氧化三钴、前驱体等 32 款产品获得 ISO 14067 产品 碳足迹核查声明。我们积极开展碳排放相关认证,为公 司减排规划提供了科学的数据基础,同时也展现了公司 实现低碳承诺的决心。

As at the end of Reporting Period, a total of 16 new subsidiaries achieved ISO 14064 certification for greenhouse gas emissions verification, and 32 new products obtained ISO 14067 certification for product carbon footprint verification. By actively pursuing carbon emission certifications, we have provided a scientific data foundation for the Company's emission reduction planning and demonstrated our resolve to fulfill our low-carbon commitments.





华友温室气体排放核查声明 Greenhouse Gas Emissions Verification Statement

能源管理 **Energy Management** 

华友按照清洁电力发展规划,力求 2035 年清洁电力使 用占集团总电量比例达100%。截至报告期末,我们多 地推进分布式光伏、风光电、水电项目。

According to the Clean Power Plan, Huayou strives to source 100% of the Group's total electricity from clean sources by 2035. As at the end of Reporting Period, we had initiated several distributed photovoltaic, wind, solar, and hydroelectric projects.

清洁电力使用占比已达

Resulting in clean power comprising 39.5% of the Group's total electricity consumption

39.5%

Substantially surpassing the anticipated target for 2024

2024 年初期目标





#### 多地开展清洁电力项目,竭力提高可再生能源使用比例

Multiple regions launched clean power projects, striving to increase the proportion of renewable energy use.

华友大力开展园区光伏项目,2024 年集团已投运光伏装机量共计 12MW,其中衢州园区投运 10MW,年发电量达 1,043 万 kWh,已累计发电 1,270 万 kWh,实现减碳 7,243 吨  $CO_2e$ 。桐乡园区年发电量达 208 万 kWh,实现减碳 1,186 吨  $CO_2e$ 。广西园区打造零碳产业园,通过使用清洁能源,清洁电力使用占比已达到 100%。

Huayou has vigorously implemented photovoltaic projects within the park. By 2024, the Group has successfully commissioned a total installed photovoltaic capacity of 12MW. Specifically, 10MW has been operational in Quzhou Park, generating an annual electricity output of 10.43 million kWh, accumulating a total generation of 12.7 million kWh, and achieving a carbon reduction of 7,243 tons CO<sub>2</sub>e. In Tongxiang Park, the annual electricity generation reaches 2.08 million kWh, contributing to a carbon reduction of 1,186 tons CO<sub>2</sub>e. Additionally, the Guangxi Park has established itself as a zero-carbon industrial park, achieving 100% utilization of clean power through the adoption of renewable energy sources.

未来,华友将继续通过建设可再生能源发电设施和外购绿电的方式,推动各个园区尽快实现 100% 清洁电力使用。

In the future, Huayou is committed to accelerating the consumption of 100% clean power across all its parks by constructing renewable energy generation facilities and procuring green power.







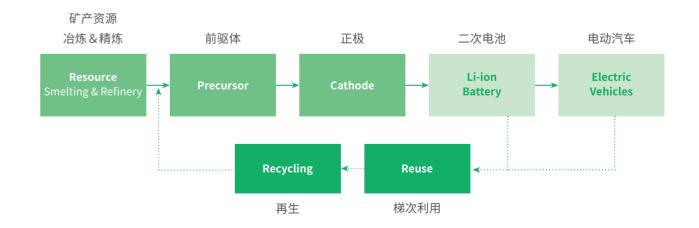


华友遵循《"十四五"循环经济发展规划》及欧盟《循环经济行动计划》等海内外相关政策及倡议,积极布局循环回收业务,全力打造从镍钴锂资源开发、绿色冶炼加工、三元前驱体和正极材料制造到资源循环回收利用的新能源锂电产业生态。截至报告期末,华友多家子公司已入选工信部《新能源汽车废旧动力蓄电池综合利用行业规范条件》企业名单。

Huayou follows the "14th Five-Year Plan for the Development of Circular Economy" and the EU's "Circular Economy Action Plan" and other relevant policies and initiatives at home and abroad, actively lays out recycling business, and makes every effort to build a new energy lithium power industry ecology from nickel, cobalt and lithium resource development, green smelting and processing, ternary precursor and cathode material manufacturing to resource recycling. As of the end of the Reporting Period, many subsidiaries of Huayou have been selected into the list of enterprises in the Industry Standard Conditions for Comprehensive Utilization of Waste Power Batteries for New Energy Vehicles issued by the Ministry of Industry and Information Technology.

公司通过回收网络体系建立、梯次利用开发、资源化利用、废料换材料和电池维修维护再制造等商业模式创新,与国内外主流汽车生产企业及电池领军企业开展广泛合作,为客户提供全球化、无害化且可持续的废旧电池解决方案。

Through the establishment of recycling network system, cascade utilization and development, resource utilization, waste material replacement and battery repair, maintenance and remanufacturing, the Company has carried out extensive cooperation with mainstream automobile manufacturers and battery leaders at home and abroad to provide customers with global, harmless and sustainable waste battery solutions.



#### 华友获梯次利用技术优秀成果

Huayou won outstanding achievements in cascade utilization technology

华友钴业在中国工业节能与清洁生产协会主办的 2024 新能源电池回收利用大会上,公司的《新能 源汽车退役动力电池多场景自适应梯次利用技术》 成功获选梯次利用技术优秀成果。

At the 2024 New Energy Battery Recycling Conference sponsored by China Industrial Energy Conservation and Clean Production Association, Huayou Cobalt successfully selected the excellent achievements of cascade utilization technology in the Company's Multi-scene Adaptive Cascade Utilization Technology for Retired Power Batteries of New Energy Vehicles.



2023年12月,华友正式成立华友绿能科技有限公司,专注于新型循环再生技术的研究与导入,实现更低碳、更高效地利用。

In December 2023, Huayou Green Energy Technology Co., Ltd. was officially established, focusing on the research and introduction of new recycling technologies to achieve lower carbon and more efficient utilization.

# 客户共建,助推绿色低碳产业链

Jointly Built By Customers to Boost Green and Low-Carbon Industrial Chain

2024年,华友钴业先后与产业链上多家公司签署战略合作协议或开展合作项目,探索产业链循环低碳解决方案。

In 2024, Huayou signed strategic cooperation agreements or carried out cooperation projects with a number of companies on the industrial chain to explore low-carbon solutions for the industrial chain cycle.





#### 动力电池梯次利用试点项目

Pilot project for cascade utilization of power batteries

华友与梅赛德斯 - 奔驰宣布在福建奔驰 汽车有限公司启动动力电池梯次利用试 点项目,将退役电池改造成可再生能源 储能系统,最大化利用电池的使用价值。

Huayou and Mercedes-Benz announced the launch of a pilot project for the cascade utilization of power batteries in Fujian Benz Automobile Co., Ltd. to transform retired batteries into renewable energy storage systems to maximize the use value of batteries.



华友与宝马就梯次电池再利用取得了新的进展,建立了 185KWH 梯次储能户外系统,用于给宝马4S店进行商业用途, 通过削峰填谷赚取电价差,取得了较好的经济效益。

Huayou and BMW have made new progress in the reuse of cascade batteries, established a 185KWH cascade energy storage outdoor system for commercial use for BMW 4S stores, earned electricity price difference through peak shaving and valley filling, and achieved good economic benefits.





#### 绿色交通电池资产管理一体化

Integration of green transportation battery asset management

华友与启源芯动力签署战略合作协议, 双方将聚焦绿色交通与绿色运力领域, 共同打造新能源重卡、电动船舶等绿色 交通电池资产管理一体化业务模式。

Huayou and Qiyuan Core Power signed a strategic cooperation agreement, and the two sides will focus on green transportation and green transportation capacity, and jointly build an integrated business model of green transportation battery asset management such as new energy heavy trucks and electric ships.



# 海外合作,构建锂电循环新格局

Overseas Cooperation to Build a New Pattern of Lithium Power Cycle

2024年,华友钴业先后在亚洲、欧洲等地区与合作伙伴 达成战略合作,共同开发电池资源回收市场,实践循环 经济。 In 2024, Huayou has reached strategic cooperation with partners in Asia, Europe and other regions to jointly develop the battery resource recycling market and practice circular economy.



#### 华友与 Sonid 合资成立海外预处理公司

Huayou and Sonid jointly established overseas pretreatment company

华友与韩国 Sonid 公司正式签订预处理合资公司成立协议,标志着华友首家海外预处理公司正式成立,作为华友循环全球电池网络的重要枢纽。

Huayou and South Korea's Sonid Company formally signed an agreement on the establishment of a pretreatment joint venture, marking the formal establishment of Huayou's first overseas pre-treatment company, as an important hub of Huayou's global battery network.





#### 华友与大野成立合资公司

Huayou and Oono Development Co.,Ltd set up a joint venture

华友与大野共同成立合资公司,双方将共同开拓日本市场,打造电池行业全生命周期循环产业链,在废旧电池资源循环领域开展深度合作,为创建循环型社会、实现全球可持续发展做出贡献。

Huayou and Oono jointly set up a joint venture company. The two sides will jointly explore the Japanese market, build a full-life cycle industrial chain of the battery industry, carry out in-depth cooperation in the field of waste battery resource recycling, and make contributions to the creation of a recycling society and the realization of global sustainable development.





#### 华友与 TRICERA 共研梯次利用解决方案

Huayou and TRICERA jointly developed cascade utilization solutions

华友与德国能源技术公司 TRICERA 于 2024 年 1 月签署梯次利用战略合作备忘录。2024 年 6 月,TRICERA 能源公司在德国慕尼黑电池储能展览会 ESS Europe 上首次展出双方合作共研的梯次利用解决方案。双方发 挥各自研发和技术优势,为欧洲市场提供高性能、高可靠性的梯次和储能解决方案,助力企业实现绿色、高 效的能源管理。

Huayou and TRICERA, a German energy technology company, signed a memorandum of strategic cooperation on cascade utilization in January 2024. In June 2024, TRICERA Energy showed the cascade utilization solution jointly developed by the two sides for the first time at ESS Europe, a battery storage exhibition in Munich, Germany. The two sides gave full play to their respective R&D and technological advantages to provide high-performance, highly reliable cascade and energy storage solutions for the European market, and helped enterprises achieve green and efficient energy management.





# **生物多样性与生态系统**



# Biodiversity and Nature Ecosystem

生物多样性是人类福祉和健康繁荣的基础,随着各国监管机构与各行业的愈发重视,华友作为新能源锂电材料和钴新材 料技术研发的高新企业,一切运营建立在良好的土壤环境与物种友好的基础上。我们承诺并支持"昆明-蒙特利尔全球 生物多样性框架",将生物多样性与生态系统保护融入日常运营,努力减少由于项目开采和施工过程中对于土地和水域 污染保护、物种生存等风险与影响,严格遵守东道国生物多样性影响评价和管理的法规要求。我们制定《生物多样性保 护政策》,以实际行动落实项目全生命周期内对生物多样性影响的管理。

Biodiversity is the foundation of human welfare and health prosperity. With the increasing attention of regulators and industries in various countries, Huayou, as a high-tech enterprise in the research and development of new energy lithium power materials and cobalt new materials technology, all operations are based on a good soil environment and species friendliness. We commit to and support the Kunming Montreal Global Biodiversity Framework, integrate biodiversity and ecosystem protection into daily operations, strive to reduce risks and impacts on land and water pollution protection and species survival due to project exploitation and construction, and strictly comply with the regulatory requirements for biodiversity impact assessment and management in the host country. We develop a Biodiversity Conservation Policy to implement the management of biodiversity impacts throughout the project life cycle.

华友承诺致力于保护各个矿区影响范围内自然栖息地和濒危物种,不在世界遗产地、自然保护联盟保护区管理类别 I-III 以及教科文组织生物圈保护区的核心区域建设项目,并尊重法定保护区,确保新建或改建项目不改变该区域的保护价值。 截至报告期末,我们确保未在任何位于保护区范围内或邻近区域,以及保护区外生物多样性丰富的区域,设立、租赁或 管理相关运营点,最大程度规避生态环境敏感区域。

Huayou is committed to protecting the natural habitats and endangered species within the affected area of each mining area, not building projects in the core areas of World Heritage Sites, IUCN Conservation Area Management Category I-III and UNESCO Biosphere Reserve, and respecting the statutory reserves, so as to ensure that new construction or reconstruction projects do not change the protection value of the area. As at the end of the Reporting Period, we have ensured that no relevant operating sites have been established, leased or managed within or adjacent to protected areas, as well as in areas outside the protected



CASE

#### 规划阶段生态系统保护

#### Ecosystem protection at planning stage

- 组织相关专业人员进行现场调查, 收集生物多样性和土地利用数据 Organize relevant professionals to conduct on-site investigation and collect biodiversity and land use data
- 分析项目对生物多样性的潜在影响,利用生物多样性影响评估工具进行定量或者定性的评价 Analyze the potential impact of the project on biodiversity and make quantitative or qualitative evaluation using biodiversity impact assessment tools
- 根据评价结果,确定项目生物多样性风险等级,并制定相应的生态预防和修复补偿措施 Determine the biodiversity risk level of the project according to the evaluation results, and formulate corresponding ecological prevention and restoration compensation measures
- 在制定预防和控制措施后,编制生物多样性丧失风险和影响评估报告 Preparation of biodiversity loss risk and impact assessment reports after the development of prevention and control measures

#### 实施阶段生态系统保护

#### Ecosystem protection during implementation

- 各施工单位根据审核意见和建议,按照报告中的预防和控制措施,开展采矿或建设等生产活动 Each construction unit shall carry out mining or construction and other production activities according to the review opinions and suggestions and the prevention and control measures in the report
- 定期进行生物多样性监测,并将监测结果报告给公司总部,由总部对监测结果进行分析和评价,并提出改进和优化的意见

Regularly carry out biodiversity monitoring and report the monitoring results to the Company headquarters, which will analyze and evaluate the monitoring results and put forward suggestions and suggestions for improvement and optimization

#### 生态影响缓解举措

#### Ecological impact mitigation measures

- 积极治理矿山地质灾害、水土流失等问题,将矿区土地复垦与生态恢复工作贯穿于矿业活动的每一个环节 Actively control geological disasters, water and soil loss and other problems in mines, and put land reclamation and ecological recovery in mining areas through every link of mining activities
- 定期监测业务活动对周边环境的影响,包括水质、空气质量等,并公开监测结果 Regularly monitor the impact of business activities on the surrounding environment, including water quality and air quality, and disclose the monitoring results
- 根据不同开采阶段的技术特点及自然环境等因素,在所有项目运营点制定并适时调整复垦与生态修复规划方案 Formulate and timely adjust the reclamation and ecological restoration plan at all project operation points according to the technical characteristics of different mining stages and natural environment and other factors
- 鼓励员工参与志愿者活动,如植树造林、清洁运动等,以实际行动支持生物多样性保护 Encourage employees to participate in volunteer activities, such as afforestation and cleaning campaigns, to support biodiversity conservation with practical actions

生物多样性与生态系统保护举措 **Biodiversity and Ecosystem Conservation Initiatives** 



#### 开展生物多样性评估,助力生态友好的全生命周期项目管理

Biodiversity assessment to facilitate eco-friendly full lifecycle project management

印尼镍产业集团在所有项目建设前,邀请具有专业 资质的第三方公司现场开展生物多样性评估并出具 环境计划报告,包括但不限于对噪声、灯光、动物 迁移的影响评估, 以及河道、溪流的地表水影响等, 致力于保护各项目运营区域的生物多样性。

Prior to the construction of all projects, Indonesia Nickel Industry Group invited a third-party company with professional qualifications to carry out biodiversity assessment on site and issue an environmental plan report, including but not limited to impact assessment on noise, light, animal migration, as well as surface water impact of rivers and streams, to protect biodiversity in the operation area of each project.













Zhejiang Huayou Cobalt Company Limited





本 SOCIA **治理** GOVERNANC







湿法冶炼工艺对水资源高度依赖,这使得水资源管理与保护成为华友稳定运营的关键因素。我们严格按照东道国法律法规要求,秉持开源节流并重、多元化取水、优化水资源配置、促进污水资源化利用的原则,在海内外运营地的管理中深入评估水资源及水环境的承载能力,积极实施节水与替代方案,致力于推动水资源的可持续利用。

Hydrometallurgical processes are highly dependent on water resources, which makes water management and protection a key factor in Huayou's stable operation. In strict accordance with the laws and regulations of the host country, we adhere to the principles of paying equal attention to both revenue and expenditure, diversifying water intake, optimizing the allocation of water resources and promoting the utilization of sewage resources, deeply assess the carrying capacity of water resources and water environment in the management of domestic and foreign operations, actively implement water conservation and alternative solutions, and strive to promote the sustainable use of water resources.

公司定期对下属产业集团开展水资源风险评估,实施地表水的水文状况与水质监测,识别可能对水资源产生负面影响的 生产经营活动,评估风险等级与潜在影响,根据不同风险等级结果制定并实施相应应对措施。同时,我们主动与周边社 区等利益相关方进行沟通交流,确保在水资源使用方面避免与当地社区发生重大竞争性冲突风险,并开展一系列社区水 资源保护措施(详情请见"社区贡献"章节),实现和谐共存。

The Company regularly conducts water risk assessment for its subordinate industrial groups, monitors the hydrological status and water quality of surface water, identifies production and operation activities that may have a negative impact on water resources, evaluates the risk level and potential impact, and formulates and implements corresponding countermeasures according to the results of different risk levels. At the same time, we actively communicate with surrounding communities and other stakeholders to ensure that we avoid the risk of major competitive conflicts with local communities in terms of water use, and carry out a series of community water conservation measures (see the "Community Contribution" section for details) to achieve harmonious coexistence.

公司关注各运营地的水平衡状况,在取水方面,华友主要通过市政购水,同时加强利用循环水、雨水、灰水等多元取水,降低新鲜水使用比例;在水资源使用环节,华友通过优化工艺参数与升级生产技术,不断提高水资源循环使用率。

The Company pays attention to the water balance of each operation site. In terms of water intake, Huayou mainly purchases water through municipal administration, while strengthening the use of recycled water, rainwater, gray water and other diversified water intake to reduce the proportion of freshwater use; In the aspect of water resources utilization, Huayou continuously improves the recycling utilization rate of water resources by optimizing process parameters and upgrading production technology.



#### 华友印尼 - 水资源综合利用

Huayou Indonesia - Comprehensive Utilization of Water Resources

2024年,华友持续投入于水资源综合利用,特别在地表水综合利用、雨水回用、中水回用等方面均取得显著成效。

In 2024, Huayou continued to invest in the comprehensive utilization of water resources, especially in the comprehensive utilization of surface water, rainwater recycling, reclaimed water recycling and other aspects, and achieved remarkable results.

2024年上半年,印尼矿山区域采取地表径流收集,共回收水量 211 万立方米;印尼华飞全厂布局 8 个雨水收集池,拥有约 32.8 万立方米容量以供进行雨水回用,累计回收雨水量 98 万立方米,助力用水单耗下降 26%。

In the first half of 2024, surface runoff was collected in Indonesia's mining area, with a total recovered water volume of 2.11 million cubic meters; Huafei Indonesia has eight rainwater collection pools throughout the plant, with a capacity of about 328,000 cubic meters for rainwater recycling. The cumulative amount of rainwater recovered is 980,000 cubic meters, helping to reduce the unit consumption of water by 26%.

案例 CASE

#### 多措并举,实现水资源深度净化

Multiple measures to achieve deep purification of water resources

在非洲地区,华友采用先进的膜分离技术,对饮用水进行深度处理,以保障饮用水安全。

In Africa, Huayou uses advanced membrane separation technology to deeply treat drinking water to ensure drinking water safety.

同时,我们关注前驱体制造环节的水资源利用效率,通过膜分离技术将生产废水制成纯水,将其重复利用至生产车间使用,以此车间的生产用水能够显著减少。

At the same time, we pay attention to the efficiency of water resources utilization in the precursor manufacturing process. Through membrane separation technology, the production wastewater is made into pure water and reused in the production workshop, so that the production water in the workshop can be significantly reduced.





# 创新与品质 Innovation and Quality





## 研发与创新

Research & Development and Innovation

科技创新与产品质量是国家与企业可持续发展的重中之重。为更好地适应市场需求和国际趋势,2024年,公司深化与海内外国家、商业伙伴、高校等利益相关方的合作,依托全球专利与知识产权保护、关键技术创新及应用等一系列行动,实施"支撑产业、引领未来"的科创战略,积极开展相关标准的研制工作。

Technological innovation and product quality are paramount for the sustainable development of nations and enterprises. To better adapt to market demands and global trends, in 2024, the Company deepened its collaboration with stakeholders, including domestic and international governments, business partners, and academic institutions. Leveraging actions such as global patent and intellectual property protection, critical technological innovation, and application, the Company implemented a science and technology innovation strategy of "supporting industries and leading the future." It also actively participated in the development of relevant standards.

#### 截至报告期末

As of the end of the Reporting Period

#### 公司正在参与研制的国际标准

The Company has engaged in the development of two international standards

2 项

#### 参与已发布的国家标准

Involved in the standardssetting process of six issued national standards

6项

#### 参与已发布的行业标准

Involved in the standardssetting process of six issued industry standards

**6**项

在研发队伍建设方面,华友钴业持续针对一体化产业链的各个环节领域引进海内外顶尖人才。公司研发人员达到4,689人。

In terms of R&D team building, Huayou Cobalt continued to attract top-tier talent from around the world for various segments of its integrated industrial chain. The Company employed 4,689 R&D personnel.

#### 截至 2024 年 6 月末

As of the end of June 2024

#### 公司在研发领域投入

The Company invested RMB 687 million in R&D

# **6.87** 亿元

#### 占总营收的

Accounting for 2.29% of total revenue

2.29%

华友建有一批先进的科研机构和开放式科研平台。截至报告期末,拥有 15 个省级研发平台和 2 个国际级研发平台,包括 1 个国家级企业技术中心、浙江省重点企业研究院和 1 个博士后科研工作站等,以支持公司坚持开放合作模式;持续与澳大利亚、德国、印度尼西亚和匈牙利等国家的科研及教育机构保持常态化的技术交流,提升了全球化研发能力。

Huayou has established a number of advanced research institutions and open research platforms. As of the end of the Reporting Period, the Company owned 15 provincial-level R&D platforms and two international-level R&D platforms, including a National Enterprise Technology Center, Zhejiang Key Enterprise Research Institute, and a Postdoctoral Research Workstation. These initiatives support the Company's commitment to an open collaboration model. The Company also maintains regular knowledge exchanges with research and educational institutions in countries such as Australia, Germany, Indonesia, and Hungary in order to enhance its global R&D capabilities.



国家科学技术进步二等奖



国家科学技术进步二等奖 onal Science and Technology Progress Award



制造业单项冠军企业 Manufacturing Single-Category Champion Enterprise (Huayou New Energy Technology Quzhou)



Manufacturing Single-Category Champion
Enterprise (Tianjin B&M Science and Technolog)



#### 智能制造: 华友统一工业互联网平台(HY Business Operating System)

Smart Manufacturing: Huayou Business Operating System (HYBOS)

2024年,华友多个生产基地率先在华友统一工业互联网平台(HYBOS)上开发并实施了LIMS系统,按照"规划驱动、统一平台、自主/联合开发、分步实施、试点先行、重点突破"的原则推进智能制造体系。此举有效提升了华友钴业的生产效率和设备管理水平,推动了生产过程的数字化和智能化,持续推动企业的可持续发展和技术创新。

In 2024, multiple production bases of Huayou took the lead in developing and implementing the LIMS system on the HYBOS. Following the principles of "planning-driven, unified platform, independent/joint development, phased implementation, pilot-first, and key breakthroughs," the Company advanced its smart manufacturing system. This initiative significantly improved Huayou Cobalt's production efficiency and equipment management, promoting the digitalization and intelligence of production processes and driving sustainable development and technological innovation.

生产管理精细化: MES 系统提 升了生产透明度和决策精确度, 推动了效率提升和成本控制。

Refined Production Management: The MES system enhanced production transparency and decision-making accuracy, driving efficiency improvements and cost control. 质量控制规范化:LIMS系统统一了质量数据管理,消除手工记录,确保了数据准确性和合规性。

Standardized Quality Control: The LIMS system unified quality data management, eliminating manual records and ensuring data accuracy and compliance. 生产统计透明化: LIMS 系统精细化采集数据,增强了可视化和实时性,支持高效调度和决策。

Transparent Production Statistics:
The LIMS system provided
detailed data collection, improving
visualization and real-time
monitoring to support efficient
scheduling and decision-making.

### 知识产权保护

**Intellectual Property Protection** 

为优化知识产权管理体系,华友钴业结合实际运营需求,制定并实施《专利申请管理办法》《商业秘密管理办法》《商标管理办法》等制度文件,明确专利、商标、版权及商业秘密的管理要求,确保管理规范高效。同时,公司积极对标国际先进标准,通过 ISO 56005 创新与知识产权管理能力分级评价,获得 3 级认证,进一步提升了知识产权管理水平和国际化能力。

To optimize its intellectual property management system, Huayou Cobalt developed and implemented a series of policies, including the *Patent Application Management Measures*, *Trade Secret Management Measures*, and *Trademark Management Measures*. These policies define management requirements for patents, trademarks, copyrights, and trade secrets, ensuring efficient and standardized operations. Additionally, the Company aligned with international best practices by undergoing ISO 56005 certification for innovation and intellectual property management, achieving Level 3 certification, which further enhanced its intellectual property management capabilities and international competitiveness.

2024年,我们加大专利布局力度,覆盖多个国家和地区,以提升国际化竞争力。截至报告期末,我们累计完成专利申请1,305件,其中发明专利929件、境外专利(含PCT)106件,累计有效授权专利541件,其中发明专利277件(含国际专利6件)。其中,2024年新增专利申请213件、专利授权136件,境外专利布局涉及欧洲、美国、日本、韩国等主要市场,展现了华友在知识产权创造与保护方面的持续投入及核心竞争力的稳步提升。

In 2024, the Company intensified its patent portfolio efforts, covering multiple countries and regions to strengthen its global competitiveness. As of the end of the Reporting Period, Huayou had filed a total of 1,305 patent applications, including 929 invention patents and 106 overseas patents (including PCT applications). A total of 541 patents had been effectively licensed, including 277 invention patents (6 of which are international patents). In 2024 alone, Huayou filed 213 new patent applications and received 136 licensed patents. Its overseas patent portfolio expanded to key markets such as Europe, the United States, Japan, and South Korea, showcasing Huayou's sustained commitment to intellectual property protection, as well as its steadily growing core competitiveness.

华友累计完成专利申请 Huayou had filed a total of 1,305 patent applications

**1,305** #

发明专利 929 invention patents

**929**件

境外专利(含 PCT)

106 overseas patents (including PCT applications)

**106**件

有效授权专利 FAI offective Licensed Detent

**541**件

发明专利(含国际专利 6 件) 277 invention patents (6 of which are internation

**277**件



其中,2024 年新增专利申请 In 2024 alone, Huayou filed 213 new patent applications

**213**件

专利授权 received 136 licensed patent

**136**件



#### 依托定制化知识产权管理系统

Relying on a customized intellectual property management system

• 优化管理流程并提升了智能化水平

Optimizing management processes and enhancing intelligence levels



#### 借力行业专利动态跟踪机制的专利数据库

Leveraging a patent database with an industry patent dynamic tracking mechanism

• 加强对专利、商标、著作权和商业秘密侵 权行为的监控

Strengthening monitoring of infringements related to patents, trademarks, copyrights, and trade secrets



#### 开展专利风险分析、FTO、专利稳定性 分析等专项工作

Conducting specialized tasks such as patent risk analysis, Freedom to Operate (FTO) assessments, and patent stability analysis

• 严格管理专利侵权风险,确保商标和版权

Strictly managing patent infringement risks and ensuring trademark and copyright compliance

Intellectual Property Info



#### 深化境外投资项目的知识产权风险管控

Deepening intellectual property risk control for overseas investment projects

• 为重点项目提供全方位的知识产权支持,确 保国际市场的知识产权布局与合规风险管理 相辅相成

Providing comprehensive intellectual property support for key projects to ensure the alignment of intellectual property portfolio and compliance risk management in international











# **可持续供应链**Sustainable Supply Chain



华友秉承内外双驱的核心理念,积极与生态圈内的各行业伙伴进行有机联动,形成共建、共赢、共享的良好生态。

Adhering to the core concept of internal and external dual drive, Huayou actively engages in collaboration with various industry partners in the ecosystem to form a good ecology of co-construction, win-win and sharing.

### 华友供应链管理原则

**Huayou Supply Chain Management Principles** 

为规范供应商管理工作,华友钴业制定了《集团采购中 心供应商管理办法》《供应商手册》《供应商行为准则》 等制度,指导我们开展供应商的准入、审核、评估及分 级管理工作,并明确要求所有供应商签署《供应商廉洁 承诺书》,以此作为规范其商业行为的重要依据。此外, 我们建立供应商全过程的管理体系,以降低采购风险、 保证采购质量, 打造健康规范的供求关系。

华友组建专业的供应商评估小组,负责供应商准入审查、 资质审核及绩效评估等工作,通过对供应商 ESG 现状摸 排、整改跟踪,不断提升供应链管理水平。报告期内, 华友新材料产业集团筛选了10家非矿产供应商,设计并 发放涉及 15 项议题的 ESG 调查表,以全方位评估供应 商 ESG 表现。

In order to standardize the management of suppliers, Huayou Cobalt has formulated the Supplier Management Measures of the Group Procurement Center, Supplier Manual, Supplier Code of Conduct and other systems to guide us in the supplier entry, audit, evaluation and hierarchical management of suppliers, and explicitly requires all suppliers to sign the Supplier Integrity Commitment as an important basis for standardizing their business practices. In addition, we have established a supplier management system throughout the process to reduce procurement risks, ensure procurement quality, and create a healthy and standardized supply and demand relationship.

Huayou has established a professional supplier evaluation team to be responsible for supplier admittance review, qualification review and performance evaluation, and continuously improves the supply chain management level through the mapping and rectification tracking of supplier ESG status. During the Reporting Period, Huayou New Material Industry Group selected 10 non-mineral suppliers, designed and issued ESG questionnaires involving 15 issues to comprehensively evaluate the ESG performance of suppliers.

# 矿产供应链尽责管理

Mineral Supply Chain Due Diligence Management

镍、钴、锰和锂等关键金属材料在电池制造中扮演着核心角色,对全球绿色能源转型具有重大影响。华友认识到,矿产 供应链的透明度对于保障产业链的可持续发展和赢得客户信任至关重要。

Key metal materials such as nickel, cobalt, manganese and lithium play a central role in battery manufacturing and have a significant impact on the global green energy transition. Huayou recognizes that the transparency of the mineral supply chain is crucial to ensuring the sustainable development of the industrial chain and winning the trust of customers.

华友成立"矿产供应链尽责管理小组",严格遵循《中国矿产供应链尽责管理指南》和《经济合作与发展组织关于受冲突影响和高风险区域矿石负责任供应链尽职调查的指南》的要求,制定并实施《高风险区域负责任全球矿产供应链政策》《负责任矿产采购供应商标准》和《冲突矿产政策》。我们以负责的态度协调和监督公司矿产供应链的尽责管理事务,持续优化华友矿产供应链"六步法"管理框架和尽责管理程序。

Huayou has established a "Mineral Supply Chain Due Diligence Management Group" to formulate and implement the "Responsible Global Mineral Supply Chain Policy for High Risk Regions", "Supplier Standards for Responsible Mineral Procurement" and "Conflict Minerals Policy" in strict accordance with the requirements of the "China Mineral Supply Chain Due Diligence Management Guidelines" and the "Organization for Economic Cooperation and Development Guidelines for Responsible Supply Chain Due Diligence of Minerals in Conflict Affected and High Risk Regions". We are responsible for coordinating and supervising the due diligence management of the Company's mineral supply chain, and continuously optimizing the "Six Steps" management framework and due diligence management procedures of Huayou Mineral Supply Chain.



华友钴业矿产供应链尽责管理"六步法"框架

Huayou Cobalt Mineral Supply Chain Due Diligence Management "Six Steps" Framework

基于利益相关方对矿产供应链可持续发展风险越来越严格的审视,我们致力于持续加强自身的尽责管理以及上游供应商的合规尽职调查,积极开展第三方审核以验证供应链尽责管理绩效。

Based on the increasingly strict review of stakeholders on the sustainable development risks of the mineral supply chain, we are committed to continuously strengthening our own due diligence management and the compliance due diligence of upstream suppliers, and actively carrying out third-party audits to verify the performance of supply chain due diligence management.

2024年,华越、钴新、有色桐乡、广西华友新材料分别完成了负责任矿产倡议的负责任矿物审验流程以及中国五矿化工进出口商会的矿产供应链尽责管理评估共计 4次,均出色完成审核。

In 2024, Huayue Company, Cobalt New, Nonferrous Tongxiang and Guangxi Huayou New Materials respectively completed the responsible mineral verification process of the Responsible Minerals Initiative and the due diligence management assessment of the mineral supply chain of the China Chamber of Commerce for the Import and Export of Minmetals and Chemicals for a total of **4 times**, all of which have successfully completed the audit.

## 绿色供应链

**Green Supply Chain** 

供应链协同减碳与全价值链的低碳转型始终是华友作为"链主"企业的使命与责任。我们致力于与合作伙伴共同开拓低碳新领域,不断推进供应链低碳发展规划,优先与绿色低碳的供应商开展合作。

Supply chain collaborative carbon reduction and low-carbon transformation of the whole value chain have always been the mission and responsibility of Huayou as a "chain owner" enterprise. We are committed to jointly exploring new low-carbon areas with partners, continuously promoting the low-carbon development plan of the supply chain, and giving priority to cooperating with green and low-carbon suppliers.

自2023年开启低碳供应商建设计划,截至报告期末,华友已累计了解、梳理供应商低碳发展现状超**50家**,助力其提升低碳意识,建立健全低碳管理体系。

Since the start of the low-carbon supplier construction plan in 2023, as of the end of the Reporting Period, Huayou has accumulated more than **50 suppliers** to understand and sort out the current situation of low-carbon development, help them improve their low-carbon awareness, and establish the low-carbon management system.



低碳赋能

强协减碳

• 与 11 家核心供应商签订《协同减碳联盟书》,建立产业链减碳协同机制

Signed the Collaborative Carbon Reduction Alliance with 11 core suppliers to establish a collaborative mechanism for carbon reduction in the industrial chain



• 完成 35 家核心供应商低碳体系赋能与 23 家供应商现场低碳培训,助力其了 解政策趋势与市场形势,了解与温室气体排放相关的风险与机遇,协助其建 立符合核算标准的碳排放数据管理体系

Completed low-carbon system empowerment for 35 core suppliers and on-site lowcarbon training for 23 suppliers to help them understand policy trends and market situation, understand risks and opportunities related to greenhouse gas emissions, and assisted them in establishing a carbon emission data management system in line with accounting standards

• 完成 11 家核心供应商共计 35 款产品碳排放量化工作 Completed the carbon emission quantification of 35 products from 11 core suppliers

• 开展多次欧盟电池法、ISO 14064 标准与 ISO 14067 标准核算标准培训,提升 供应链可持续发展意识

Carried out multiple trainings on EU battery law, ISO 14064 standard and ISO 14067 standard accounting standard to enhance the awareness of sustainable development of supply chain



• 建立供应商分级分类低碳管理体系

Established a hierarchical and classified low-carbon management system for suppliers

• 完成 2 项低碳采购体系标准建设

Completed the construction of two low-carbon procurement system standards

• 实现 6 家供应商低碳审核,践行绿色采购,积极推动供应链低碳转型

Achieved low-carbon audit of 6 suppliers, practiced green procurement, and actively promoted low-carbon transformation of supply chain

#### 2024 华友绿色供应链行动

2024 Huayou Green Supply Chain Action



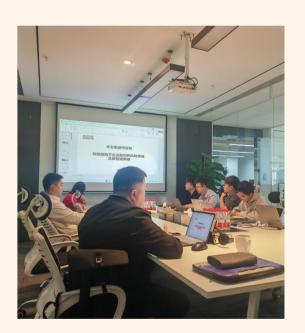
#### 协同液碱供应商,赋能全流程低碳供应链建设

Cooperated with liquid alkali suppliers to enable the construction of low-carbon supply chain in the whole process

2024年,华友针对核心液碱供应商开展全流程的低碳供应链建设工作,协同该供应商在高耗能设备淘汰、 优化能源结构、应用节能降碳技术、碳排放和产品碳足迹核算等七大方面开展减碳措施。截至报告期末,该 供应商碳排放实测值降低约59%。

In 2024, Huayou carried out the whole process of low-carbon supply chain construction for the core liquid alkali supplier and cooperated with the supplier to carry out carbon reduction measures in seven aspects, including the elimination of high-energy consumption equipment, the optimization of energy structure, the application of energysaving and carbon reduction technology, carbon emissions and product carbon footprint accounting. By the end of the Reporting Period, the measured carbon emissions of the supplier had decreased by about 59%.





应对气候变化行动走向纵深,价值链的碳足迹已经成为减排降碳的重要"阵地"。未来,我们将持续投入于 价值链协同减碳,以有效的价值链碳足迹管理兑现华友的"气候雄心"承诺。

Climate change action is going deep, and the carbon footprint of the value chain has become an important "front" for emission reduction and carbon reduction. In the future, we will continue to invest in value chain collaborative carbon reduction, and fulfill Huayou's "climate ambition" commitment with effective value chain carbon footprint management.













### 平等雇佣

**Equal Employment** 

华友钴业始终践行可持续发展理念,深知保护劳工权益是企业社会责任的核心,也是实现长期稳健发展的关键。公司严 格遵守《中华人民共和国劳动法》《中华人民共和国劳动合同法》以及印度尼西亚《劳工法》等相关国内外法律法规, 制定《招聘管理制度》《劳动合同管理办法》《华友健康职场管理规定》等内部规章制度,全面落实劳动合同集体合同制度, 依法依规保障员工劳动报酬、休息休假、职业健康安全、社会保险和职业技能培训等基本权益,明确禁止任何形式的性 别、种族、宗教、年龄、残疾、国籍、婚育状况等因素导致的歧视行为。公司通过规范化的制度建设和严格的执行机制, 致力于营造多元、平等、包容的工作氛围,为行业可持续发展树立典范。

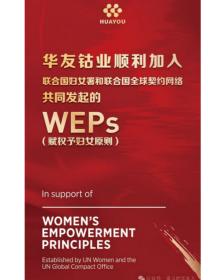
Huayou Cobalt consistently upholds the concept of sustainable development, recognizing that protecting labor rights is a core aspect of corporate social responsibility and a key to achieving long-term stable growth. The Company strictly complies with the Labor Law of the People's Republic of China, the Labor Contract Law of the People's Republic of China, and Indonesia's Labor Law, as well as other relevant domestic and international regulations. It has established internal policies such as the Recruitment Management System, Labor Contract Management Measures, and Huayou Healthy Workplace Management Regulations to fully implement labor contract and collective agreement systems. These measures ensure employees' fundamental rights, including fair wages, rest and leave, occupational health and safety, social insurance, and vocational skills training, all in accordance with laws and regulations. The Company explicitly prohibits discrimination in any form based on gender, race, religion, age, disability, nationality, or marital and parental status. Through standardized policy development and strict enforcement mechanisms, Huayou is committed to fostering a diverse, equal, and inclusive workplace, setting an example for sustainable development in the industry.

为进一步深化性别平等和女性赋权承诺,华友钴业2024年正式加入由联合 国妇女署与联合国全球契约组织共同发起的"赋权予妇女原则"(WEPs)。 WEPs 将助力华友钴业在工作场所、供应链和社区中积极推动性别平等,致 力于实现"不让任何一个人掉队"的发展目标。

To further its commitment to gender equality and women's empowerment, in 2024, Huayou Cobalt officially joined the Women's Empowerment Principles (WEPs) initiative launched by UN Women and the United Nations Global Compact. Through WEPs, Huayou aims to actively promote gender equality in the workplace, supply chain, and community, contributing to the goal of "leaving no one behind."

"赋权予妇女原则"(WEPs)

Women's Empowerment Principles (WEPs)



#### 国际妇女节活动

International Women's Day Activities

2024年国际妇女节,华友海内外多地举办庆祝活动,增进彼此的文化交流。我们将持续推动性别平等方面 的承诺与实践,致力建设多元文化,践行促进员工融合的企业责任。

For International Women's Day 2024, Huayou hosted celebratory events in multiple locations worldwide to enhance cultural exchange among employees. We will continue to promote our commitment and practices related to gender equality, striving to build a diverse culture and uphold corporate responsibility in fostering employee integration.





2024年,华友深入加强海外校企合作,通过研究生奖学 金项目、本科生助学金项目以及大专生助学金项目助力 海外运营所在地的教育发展。截至报告期末,硕士学位 奖学金获得者共27人,本科奖学金获得者共28人,专 科奖学金获得者共32人。

In 2024, Huayou further strengthened its overseas universitybusiness collaborations by supporting the educational development of regions where we operate through graduate scholarships, undergraduate financial aid, and vocational school scholarships. As of the end of the Reporting Period, 27 individuals had received master's degree scholarships, 28 received undergraduate scholarships, and 32 received vocational school scholarships.



硕士学位奖学金获得者共

27 individuals had received master's degree scholarships

**27**  $^{\perp}$ 

本科奖学金获得者共

28 received undergraduate scholarships

**28** <sup>1</sup>

专科奖学金获得者共

32 received vocational school scholarships

**32** <sup>1</sup>

# 人权保护

**Human Rights Protection** 

华友钴业深知企业的可持续发展始于公司的价值体系以及基于原则的经商之道。我们严格遵守国家及生产运营所在地的劳动者权益保护相关法律法规规定,参照《联合国工商企业与人权指导原则》(UNGPs)以及国际劳工组织(ILO)核心公约规则,制定了《华友钴业 ESG政策》,明确禁止童工和强迫劳动。为了进一步确保我们的执行,编制完善了《禁止童工、强迫劳工、不人道待遇和歧视管理程序》,设立保护举报人的监督举报机制,坚决禁止任何不当雇佣行为,旨在确保海内外员工享有合规、安全和民主的工作环境。

Huayou Cobalt understands that a company's sustainable development begins with its value system and principled business practices. We strictly comply with labor rights protection laws and regulations in the countries where we operate and base our actions on the United Nations Guiding Principles on Business and Human Rights (UNGPs) and the core conventions of the International Labour Organization (ILO). We have developed the Huayou Cobalt ESG Policy, which explicitly prohibits child labor and forced labor. To further ensure compliance, we have established comprehensive management procedures for preventing child labor, forced labor, inhumane treatment, and discrimination. We have also set up a mechanism to protect whistleblowers and supervise reporting, firmly prohibiting any inappropriate employment practices, with the aim of ensuring that both domestic and overseas employees enjoy a compliant, safe, and democratic working environment.

报告期内,华友钴业正式签署并提交加入联合国全球契约组织(UNGC)声明。未来,华友将在日常运营中恪守联合国全球契约企业责任倡议及其在人权、劳工、环境和反腐败领域的原则。

During the Reporting Period, Huayou Cobalt officially signed and submitted its letter of commitment to join the United Nations Global Compact (UNGC). Moving forward, Huayou will adhere to the principles of the UNGC in our daily operations, focusing on human rights, labor, environmental protection, and anti-corruption.

联合国全球契约组织(UNGC)声明



### 安全管理

**Safety Management** 

华友钴业始终坚持"安全第一、预防为主、综合治理"的安全管理原则,深知强化安全生产责任是保障公司可持续发展的关键。我们贯彻"以人为本"方针,将员工与承包商的职业健康和人身安全视为重中之重,严格遵守《中华人民共和国职业病防治法》等国内外相关法律法规。我们制定的《华友钴业 ESG 政策》明确了关于保障员工和在项目场地作业的承包商健康与安全的承诺和要求,致力于实现"零死亡和零职业病"的安全管理工作目标。

Huayou Cobalt adheres to the safety management principle of "safety first, prevention-oriented, and comprehensive governance," recognizing that strengthening safety production responsibilities is key to ensuring the Company's sustainable development. We implement a "peoplecentered" approach, prioritizing the occupational health and personal safety of both employees and contractors. The Company strictly complies with domestic and international laws and regulations, including the Occupational Disease Prevention and Control Law of the People's Republic of China. Our *Huayou Cobalt ESG Policy* clearly defines commitments and requirements regarding the health and safety of employees and contractors working on project sites, aiming to achieve the safety management goal of "zero fatalities and zero occupational diseases".

"零死亡和零职业病"

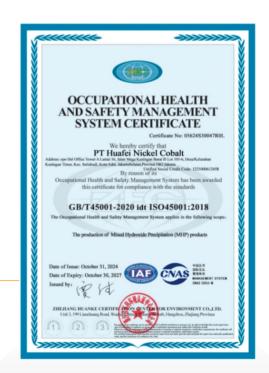
Zero ratatities and Zero Occupational Diseases

2024年,华飞镍钴成功通过 ISO 45001 职业健康安全管理体系认证。截至报告期末,华友钴业及旗下多家子公司均通过了 ISO 45001 职业健康安全管理认证。

In 2024, Huafei Nickel Cobalt successfully passed the ISO 45001 Occupational Health and Safety Management System certification. As of the end of the Reporting Period, Huayou Cobalt and its subsidiaries have all obtained ISO 45001 certification for occupational health and safety management.



华飞镍钴 ISO 45001 职业健康安全管理体系认证证书 Huafei Nickel Cobalt ISO 45001 Occupational Health and Safety Management System Certificate



# 社区贡献

# **Community Contribution**







#### 印尼华飞镍钴联合第三方专业机构开展职业健康安全检测与风险评估

Indonesia Huafei Nickel Cobalt Collaborates with Third-Party Professional Institutions for Occupational Health and Safety Testing and Risk Assessment

为确保员工在安全、合规的环境中工作,印尼华飞镍钴实施了全面的职业健康检测与风险评估,联合第三方 专业机构,对生产区域内的职业健康危险因素进行了全面检测,共涵盖16项职业健康危险因素,包括硫化氢、 粉尘含量、磁场强度、区域光照强度以及噪声水平等。

To ensure that employees work in a safe and compliant environment, Indonesia Huafei Nickel Cobalt has implemented comprehensive occupational health testing and risk assessments in collaboration with third-party professional institutions. A full range of occupational health hazards in the production areas was tested, covering 16 types of occupational health risk factors, including hydrogen sulfide, dust levels, magnetic field strength, area lighting intensity, and noise levels.

经检测,所有项目均符合职业健康标准,确保了员工的工作环境安全和合规,所有职业健康风险均得到有效 控制。

The results of the testing confirmed that all factors met occupational health standards, ensuring a safe and compliant working environment for employees. All occupational health risks were effectively controlled.





### 社会公益

一直以来,华友始终行胜于言,积极投身于社会公益事业中,竭力为社 会创造更可持续的正向价值。截至报告期末,"华友爱心基金"共计资 助 27 户困难职工家庭,发放慰问金 156,600 元;资助 2 户意外事故家庭, 发放救助金 350,000 元; 慰问其他村社区、结对单位弱势群体人员 100 个家庭或人员,发放慰问现金或礼品共计价值约50,000元。

Huayou has always believed in actions over words, actively engaging in social welfare efforts and striving to create more sustainable and positive value for society. As of the end of the Reporting Period, the Huayou Charity Fund has provided support to 27 families of employees in financial difficulty, distributing a total of 156,600 RMB. The fund also assisted two families affected by accidents with relief payments totaling 350,000 RMB. In addition, the fund provided assistance to vulnerable groups in 100 families or individuals from other local communities and partner organizations, distributing a total of approximately 50,000 RMB in cash or gifts.





中国: 华友慈善共富基金

China: Huayou Charity Common Prosperity Fund

"华友慈善共富基金会"自2022年成立以来,聚焦教育 与青少年发展。2024年,该基金会为桐乡高桥街道 428 名 中小学生发放奖学金 38 万元, 并为 53 名考取"九校联盟 C9"高校的本地高中生发放 65 万元奖学金。此外,该基金 会拨款 450 万元建设桐乡市青少年"华友新能源科普馆", 预计 2025 年投入使用,旨在普及新能源知识并激发青少年 对新材料科学的兴趣。



Since its establishment in 2022, the Huayou Charity Common Prosperity Fund has focused on education and youth development. In 2024, the foundation awarded scholarships totaling 380,000 RMB to 428 primary and secondary school students in Tongxiang's Gaoqiao Street. Additionally, 650,000 RMB in scholarships was granted to 53 local high school students who were admitted to the prestigious "C9 League" universities. The foundation also allocated 4.5 million RMB for the construction of the Huayou New Energy Science Popularization Center for youth in Tongxiang, which is expected to be operational by 2025. This center aims to promote knowledge of new energy and stimulate young people's interest in material science.

案例 CASE

#### 刚果(金):青年职业教育项目

Democratic Republic of the Congo: Youth Vocational Education Program

2024年,华友钴业非洲子公司 CDM 公司热烈欢迎来自 Lubumbashi 市 BERAKAH 学校的 70 名技术专业学生到园区参观,促进了学生与技术人员在科技与管理方面的交流。该项目旨在激发学生对技术职业的兴趣,为刚果(金)培养更多技术人才,推动地区社会经济可持续发展。

In 2024, Huayou Cobalt's African subsidiary, CDM company, warmly welcomed 70 technical vocational students from BERAKAH School in Lubumbashi for a tour of the industrial park. This initiative facilitated exchanges between the students and technical staff on science and management topics. The program aims to inspire students to pursue technical careers, train more skilled workers in the Democratic Republic of the Congo, and promote the region's socio-economic sustainable development.





#### 津巴布韦: 社区基建项目

Zimbabwe: Community Infrastructure Projects

#### 非洲社区道路修复工程:

African Community Road Rehabilitation Project:

自 2023 年起,华友钴业非洲子公司 PLZ 出资 160 万美金助力 Mashonaland East 省 Goromonzi 社区修复道路,已成功修复长达 22 千米的道路,显著改善了当地居民所面临的道路扬尘及交通安全问题。未来,PLZ 计划分阶段完成额外 16 千米的道路沥青修复工程。

Since 2023, Huayou Cobalt's African subsidiary, PLZ has invested 1.6 million USD to assist in road repairs in the Goromonzi community in Mashonaland East Province. A total of 22 kilometers of road have been successfully restored, significantly improving road dust and traffic safety issues faced by local residents. PLZ plans to complete an additional 16 kilometers of asphalt road repairs in phases.

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"这条修复的道路不仅仅服务于 PLZ。我们这里有这个地区的居民,还有农民和其他将会从这条道路上受益的人。" - Dr Aplonia Munzverengwi, Minister of State for Provincial Affairs and Devolution for Mashonaland East

"The road does not serve PLZ alone. We have residents from this area, we have farmers and other people who will benefit from this road." - Dr. Aplonia Munzverengwi, Minister of State for Provincial Affairs and Devolution for Mashonaland East

"







#### 非洲水坝修复项目

African Dam Rehabilitation Project

2024年2月,华友钴业非洲子公司 PLZ 完成了 Mashonaland East 省 Goromonzi 社区 Chinyika 水坝溢洪 道修复工程,通过抬高溢流口,有效缓解了当地用水短缺问题。新水坝每年预计新增储水 1,500 兆升。此外,PLZ 对大坝外围加固,提升其在极端天气下的稳定性,为社区提供安全稳定的水源。同时,我们计划在 Chinyika 水坝下游修建新水坝,储水能力预计达 5,000 至 8,000 兆升。

In February 2024, Huayou Cobalt's African subsidiary, PLZ, completed the spillway repair project for the Chinyika Dam in the Goromonzi community of Mashonaland East Province. By raising the spillway, the project has effectively alleviated local water shortages. The new dam is expected to increase water storage by 1,500 million liters annually. Additionally, PLZ reinforced the dam's perimeter to improve its stability during extreme weather, ensuring a safe and stable water supply for the community. Furthermore, PLZ plans to build a new dam downstream of Chinyika, with a storage capacity of 5,000 to 8,000 million liters.

PLZ 已在 Goromonzi 地区建造多口水井,为进一步解决用水问题,我们承诺在未来十年内每年新增 5 口水井,总计为该地区建造 50 口水井,持续为更多社区提供清洁饮水。

PLZ has also constructed several wells in the Goromonzi region. To further address water issues, we are committed to adding five new wells each year over the next decade, ultimately constructing 50 wells to provide clean drinking water for more communities.





# 国际社区发展专题: 携手合作伙伴, 共创海外履责模式

International Community Development Topic: Partnering for Overseas Responsibility Models

随着国际化进程的推进,华友不仅在业务端携手世界各地合作伙伴,打造有竞争力的商业模式;也在社区发展端与各利益相关方合作,应用"共创"的方式促进社区发展项目标准化、专业化、国际化,以提升企业国际声誉,促进华友与东道国的可持续发展关系。

As Huayou advances in its internationalization, the Company collaborates with partners worldwide to build competitive business models while also working with various stakeholders on community development. By employing a "co-production" approach, Huayou aims to standardize, professionalize, and internationalize community development projects, enhancing the Company's international reputation and promoting sustainable development relations with host countries.

### 案例 CASE

#### 引入中国乡村发展基金会,创新华友国际履责新模式

Partnering with the China Rural Development Foundation to Innovate Huayou's International Responsibility Model

2024年7月,在第七届中非民间论坛、中非青年领导人论坛平行论坛上,华友钴业携手中国乡村发展基金会共同启动刚果(金)发展援助项目——华友钴业 CDM 社会责任项目。该项目旨在 Kawama 等村落实施—系列公益项目,涉及教育、生计、卫生等议题,系统地提升当地福祉水平。

In July 2024, at the Parallel Session of the Seventh China-Africa People's Forum and the Seventh China-Africa Young Leaders Forum, Huayou Cobalt, in collaboration with the China Rural Development Foundation, launched the Democratic Republic of the Congo (DRC) Development Aid Project – Huayou Cobalt CDM Social Responsibility Project. This initiative focuses on implementing a series of public welfare projects in villages such as Kawama, covering areas like education, livelihoods, and health, with the goal of systematically improving the local community's well-being and welfare.



第七届中非民间论坛、中非青年领导人论坛平行论坛 启动仪式照片

Inauguration Ceremony Photos of the Parallel Session of the Seventh China-Africa People's Forum and the Seventh China-Africa Young Leaders Forum

案例 CASE

#### 携手联合国中非合作平台,提升企业社会责任影响力

Partnering with the UN China-Africa Cooperation Platform to Enhance Corporate Social Responsibility Impact

基于联合国全球契约组织(UNGC)的中非可持续社区发展行动网络,华友钴业携手复星集团、杰克科技、海辰储能、波克游戏共同发起津巴布韦 Goromonzi 社区发展项目,涉及健康教育、职业教育、女性赋能,以及电力平权领域,以提升当地生计水平,维护华友钴业与东道国的可持续发展关系。

Based on the United Nations Global Compact (UNGC) China-Africa Sustainable Community Development Action Network, Huayou Cobalt, in collaboration with Fosun Group, Jack Technology, Hithium Energy Storage Technology, and BOKE Technology, jointly launched the Goromonzi Community Development Project in Zimbabwe. This initiative covers areas such as health education, vocational training, women's empowerment, and energy equity, with the goal of improving local livelihoods and strengthening Huayou Cobalt's sustainable development relationship with the host country.

*津巴布韦社区发展项目已成为联合国全球契约组织(UNGC)的中非可持续社区发展行动网络首批试点项目*,成为中非网络社区发展项目典范。

The Goromonzi Community Development Project has become one of the first pilot projects in the UNGC's China-Africa Sustainable Community Development Action Network, setting an exemplary model for community development projects within the China-Africa network.



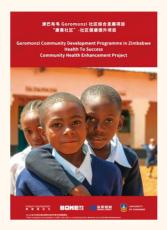
项目名 Project Name	项目领域 Project Field	项目简介 Project Description	
康惠社区——社区健康项目 Health to Success Community Health Enhancement Project	社区健康 Community Health	<ul> <li>为减少津巴布韦流行病传播,华友钴业与复星公益基金会联合启动"康惠社区"健康项目,共向非洲地区捐赠 3 万美元的疟疾药物。同时,波克公益基金会开发了流行病防治SDG Hero 桌游,以寓教于乐的方式提高公众的预防意识。</li> <li>To reduce the spread of epidemics in Zimbabwe, Huayou Cobalt, in partnership with the Fosun Public Welfare Foundation, launched the Kanghui Community health project, donating \$30,000 worth of malaria medication to the African region. Additionally, the BOKE Charity Foundation developed the Epidemic Prevention SDG Hero board game to raise public awareness of prevention methods in an engaging and educational manner.</li> </ul>	
技助成功——职业教育项目 Skills to Success Youth Vocational Education Project	职业教育 Vocational Education	<ul> <li>为社区青年提供焊工培训,并与当地商会合作,搭建就业平台,助力青年获得更多的就业机会,帮助其找到体面的工作。</li> <li>This project provides welding training for local youth and collaborates with the local chamber of commerce to create an employment platform, helping young people secure more job opportunities and find decent work.</li> </ul>	
编织未来——女性赋能项目 Weaving the Future – Women's Empowerment Project	女性赋能 Women's Empowerment	<ul> <li>与杰克控股共同开展"编织未来"女性赋能项目,通过提供缝纫技能培训和设备,帮助津巴布韦女性提升编织技能,并搭建企业参与平台,确保订单的可持续性。</li> <li>In collaboration with Jack Technology, Huayou Cobalt launched the Weaving the Future women's empowerment project, offering sewing skills training and equipment to help women in Zimbabwe enhance their weaving skills. The project also establishes a platform for corporate participation to ensure the sustainability of orders.</li> </ul>	
电暖社区——电力平权项目 Energy Equity to Success Community Electricity Equity Project	电力平权 Energy Equity	<ul> <li>为解决津巴布韦部门地区获得能源资源困难问题,华友钴业PLZ 与海辰储能合作,向学校、诊所和社区创业者提供储能设备,支持其获得不间段的电力供应,有效改善了当地社区居民的民生问题。</li> <li>To address the challenges of accessing energy resources in rural areas of Zimbabwe, Huayou Cobalt PLZ, in collaboration with Hithium Energy Storage Technology, provided energy storage devices to schools, clinics, and local entrepreneurs, helping them secure uninterrupted electricity supply and effectively improving the livelihoods of local community residents.</li> </ul>	

















2024年4月22日第55个世界地球日当天,华友印尼红树林保护公益项目在IPIP园区正式启动。华友、福特、淡水 河谷等代表在 IPIP 园区的红树林保护区内携手种下寄托美好希望的红树苗。

On April 22, 2024, the 55th Earth Day, the Huayou Indonesia Mangrove Protection Project was officially launched at the IPIP Park. Representatives from Huayou, Ford, Vale, and others joined hands to plant red mangrove seedlings in the mangrove protection area of IPIP Park, symbolizing their shared vision for a better environment.







# 公司治理 Corporate Governance

有效的治理机制对于确保公司合规、稳定的发展至关重要。华友通过构建规范的治理架构,重视董事会多元化与投资者 关系,在日常运营中坚持合规运营发展,有效符合境内外监管要求以及上市公司治理要求,持续提升华友现代化与国际 化治理能力。

An effective governance mechanism is crucial to ensure the Company's compliance and stable development. By building a standardized governance structure. Huayou attaches importance to the diversification of the board of directors and investor relations, adheres to compliance operation and development in daily operations, effectively conforms to domestic and foreign regulatory requirements and the governance requirements of listed companies, and continuously improves Huayou's modern and international governance capabilities.



Governance Structure of Huayou Cobalt

华友将董事会成员多元化视为公司实现长远战略目标的关键,在董事会成员提名时,将董事会成员的文化背景、行业经 验、专业技能知识、性别及民族等多元化因素综合考虑纳入董事会选举的衡量标准。

Huayou regards the diversity of board members as the key to achieving the Company's long-term strategic objectives. When nominating board members, the cultural background, industry experience, professional skills and knowledge, gender and ethnicity of board members are taken into account in the selection of board members.

公司董事会现由7人组成,其中独立董事3名,分别在环保、法务、风险管理、财务等方面具备丰富的专业经验。

The Board of Directors of the Company is composed of 7 persons, including 3 independent directors with rich professional experience in environmental protection, legal affairs, risk management and finance.



# **合规风险管理**Compliance Risk Management

华友深知合规风险管理对于公司稳健运营与实现可持续发展的重要性,我们通过完善以首席合规官为中心的合规组织体 系,在各产业集团任命首席合规官,以强化示范效应。2024年,我们制定并发布《华友组织绩效管理办法》,首次以 制度化形式将合规考核纳入组织绩效考核中,在强化员工合规意识的同时,充分提升合规管理效能。

Huayou is well aware of the importance of compliance risk management for the steady operation and sustainable development of the Company. We have appointed chief compliance officers in various industrial groups to strengthen the demonstration effect by improving the compliance organization system centered on chief compliance officers. In 2024, we formulated and issued the Huayou Organization Performance Management Measures, which for the first time institutionalized the compliance assessment into the organization performance assessment, so as to strengthen employees' compliance awareness and fully improve the effectiveness of compliance management.



华友钴业荣获浙江省合规管理先进单位

Huayou Cobalt Won the Title of Zhejiang Province's Advanced Compliance Management Unit

截至报告期末,华友合规管理的认证范围已扩大到全球 研发、销售和生产管理,合规领域从反贿赂、反垄断、 出口管制与经济制裁进一步扩宽至公司治理、反贿赂、 反垄断、出口管制与经济制裁、知识产权、信息安全与 网络安全、产品责任、环境保护、职业健康安全、劳动 用工等十项合规领域。

As of the end of the Reporting Period, the certification scope of Huayou compliance management has been expanded to global R&D, sales and production management, and the compliance field has been further expanded from antibribery, anti-monopoly, export control and economic sanctions to ten compliance fields of corporate governance, anti-bribery, anti-monopoly, export control and economic sanctions, intellectual property, information security and network security, product liability, environmental protection, occupational health and safety, and labor employment.

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# 商业道德

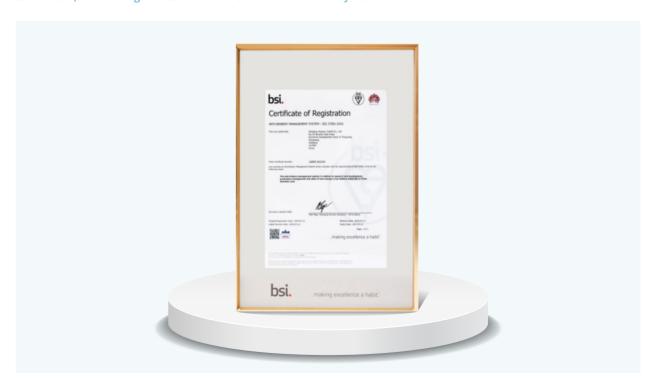
# **Business Ethics**

华友不断加强商业道德领域的合规管理水平,以体系建设、案件查处、文化宣贯为抓手,开展全面覆盖、全员参与的廉洁合规活动。我们制定了《反贿赂合规手册》《商业伙伴管理手册》,明确对贪腐、欺诈、贿赂、洗钱、回扣及不正当利益输送、垄断与不正当竞争等违反商业道德的行为持"零容忍"态度。

Huayou has continuously strengthened the compliance management level in the field of business ethics, formulated the Anti-Bribery Compliance Manual and the Business Partner Management Manual, and clearly held a "zero tolerance" attitude towards corruption, fraud, bribery, money laundering, kickbacks and unfair interest transmission, monopoly and unfair competition.

根据《反贿赂风险管理细则》,公司每年进行反贿赂合规风险评估,定期通过组织各个职能部门开展风险识别和评估工作,更新《贿赂风险一览表》,持续巩固廉洁风险防范能力。2024年3月,公司已通过ISO 37001 反贿赂管理体系认证,成为行业内首批获得此项认证的公司之一,同时还获得BSI 授予的"标准先锋奖"。

According to Anti-Bribery Risk Management Rules, the Company conducts anti-bribery compliance risk assessment on an annual basis, regularly organizes various functional departments to carry out risk identification and assessment, updates Bribery Risk List, and continuously consolidates the ability to prevent corruption risks. In March 2024, the company has passed the ISO 37001 Anti-Bribery Management System Certification, becoming one of the first companies in the industry to obtain this certification, and winning the "Standard Pioneer Award" awarded by BSI.



ISO 37001 反贿赂管理体系认证 ISO 37001 Anti-Bribery Management System Certification

结合"海外资源、国际制造、全球经营"的经营格局,力争高水平合规经营,华友已打造了从矿山资源开发一有色金属冶炼一新能源锂电材料一废旧电池回收的一体化产业链合规管理体系,成为全球首家完成新能源锂电材料一体化合规管理体系认证企业,其中印尼华越成为印尼镍行业首家完成 ISO 37301 合规管理体系建设和认证的企业,PLZ 成为津巴布韦首家完成 ISO 37301 合规管理体系建设和认证的企业,系统提升了公司合规管理能力。

In combination with the business pattern of "overseas resources, international manufacturing and global operation" and striving for high-level compliance operation, Huayou has created an integrated industrial chain compliance management system from mining resources development - non-ferrous metal smelting - new energy lithium power materials - waste battery recycling, and has become the first enterprise in the world to complete the certification of integrated compliance management system for new energy lithium power materials. Among them, Indonesia Huayue became the first enterprise in the Indonesian nickel industry to complete the construction and certification of ISO 37301 compliance management system, and PLZ became the first enterprise in Zimbabwe to complete the construction and certification of ISO 37301 compliance management system, which systematically improved the Company's compliance management capabilities.



新能源锂电材料一体化合规管理体系认证颁证仪式

Certification Ceremony for Integrated Compliance Management System of New Energy Lithium Battery Materials

#### 推进全球监察网格化项目,持续加强商业道德管控

Promote the global monitoring grid project and continue to strengthen business ethics control

为推进集团子公司与控股公司的反贿赂管理建设, 华友持续开展监察网格化项目,2024年依次在广西 和非洲区域开展全员宣传、重点宣讲、业审联动座 谈会、主题活动等,将培训、宣传、监督三者有机 结合,增强业审联合防范风险能力,促进廉洁文化 传播发展。





grid project. In 2024, it carried out full-staff publicity, key publicity, industry audit linkage symposium, theme activities, etc. in Guangxi and Africa, organically combining training, publicity and supervision, enhancing the ability of industry audit joint risk prevention, and promoting the dissemination and development of clean culture.

2024年6月,监察网格项目走进非洲刚果(金)和津巴布韦的子公司,与当地部门开展座谈会,并与津巴布韦当地供应商开展交流活动,共同推动解决监督领域堵点和难点。

In June 2024, the monitoring grid project went to subsidiaries in the Democratic Republic of the Congo and Zimbabwe in Africa, held seminars with local



departments, and carried out exchanges with local suppliers in Zimbabwe to jointly promote the resolution of bottlenecks and difficulties in the field of supervision.

2024年11月,监察网格项目小组前往印尼区域调研,探索印尼廉洁教育体系和监察工作本地化建设可能性方案。

In November 2024, the Monitoring Grid Project Team visited Indonesia to investigate and explore the possibility of Indonesia's integrity education system and localization construction of monitoring work.

2025年,华友将持续推进印尼区域与欧洲区域监察网格项目,深入了解国际业务开展状况,评估各流程风险点,加强该区域员工廉洁从业意识,进一步助力境外公司廉洁合规建设,提高企业管理水平。

In 2025, Huayou will continue to promote the monitoring grid project in Indonesia and Europe, deeply understand the development status of international business, assess the risk points of various processes, strengthen the awareness of employees in the region, further help overseas companies build integrity and compliance, and improve enterprise management level.

为切实推进廉洁建设,华友已进一步完善举报投诉管理机制,提供包括国内和境外举报电话、信箱、邮件、线上公众号、双语廉洁海报、官网廉洁专栏等多样化渠道,鼓励全体员工、供应商、合作伙伴等利益相关方积极反馈损害公司及员工利益的违法违规行为,并设置举报奖励机制。同时,公司加强落实举报人保护措施,坚决保护举报人合法权益及人身安全,在举报流程中对举报人信息严格保密,禁止一切报复、歧视行为发生。

In order to effectively promote the construction of integrity, Huayou has further improved the management mechanism of reporting and complaints, providing diversified channels including domestic and overseas reporting telephone, mailbox, e-mail, online public account, bilingual integrity poster, official website integrity column, etc., encouraging all employees, suppliers, partners and other stakeholders to actively feedback illegal and irregular acts that harm the interests of the company and employees, and setting up a reporting reward mechanism. At the same time, the company strengthens the implementation of whistle-blower protection measures, resolutely protects the legitimate rights and interests of whistle-blower and personal safety, strictly protects the information of whistle-blower in the reporting process, and prohibits all retaliation and discrimination.





# 重要说明

# **Importance Notice**

# 时间范围

**Reporting Period** 

本报告信息和数据时间范围涵盖公司 2024 年 1 月 1 日至 2024 年 11 月 30 日。文中"报告期"均代指该时间范围。

The information and data in this report cover the period from January 1, 2024 to November 30, 2024. "Reporting Period" means such time frame.

### 报告边界

**Boundary of the Report** 

本报告中所涉及的实质性内容涵盖浙江华友钴业股份有限公司及下属子公司,与年报披露范围保持一致。部分指标若存 在与年报披露范围不完全一致时,将在正文中进行备注说明。

The substantive content involved in this report covers Zhejiang Huayou Cobalt Co., Ltd. and its subsidiaries, which is consistent with the disclosure scope of the annual report. If some indicators are not completely consistent with the scope of annual report disclosure, we will be annotated in the text.

## 指代说明

References

为便于表述,除非文义另有所指,下列词语具有如下意义:

To facilitate presentation, unless the context requires otherwise, the following expressions shall have the meanings hereby assigned to them, except where the context otherwise requires:



• 华友钴业 / 华友 / 集团 / 公司 / 我们 浙江华友钴业股份有限公司及下属子公司

Huayou Cobalt/Huayou/the Group/the Company/we/us—Zhejiang Huayou Cobalt Co., Ltd. and its subsidiaries

华友衢州 衢州华友钴新材料有限公司

Huayou Quzhou—Quzhou Huayou Cobalt New Materials Co., Ltd.

衢州新能源 华友新能源科技(衢州)有限公司

Zhejiang New Energy Quzhou—Huayou New Energy Technology (Quzhou) Co., Ltd.

华友新能源 浙江华友新能源科技有限公司

Huayou New Energy Technology—Zhejiang Hauyou New Energy Technology Co., Ltd.

华友循环 浙江华友循环科技有限公司

Huayou Recycling—Zhejiang Huayou Recycling Technology Co., Ltd.

衢州华友资源再生科技有限公司 华友资源再生

Resource Recycling—Quzhou Huayou Resource Recycling Technology Company Limited

江苏华友能源科技有限公司 华友能源

Huayou Energy—Jiangsu Huayou Energy Technology Co., Ltd.

华金 / 华金公司 华金新能源材料(衢州)有限公司

Huajin/Huajin Company—Huajin New Energy Materials (Quzhou) Co., Ltd.

天津巴莫 天津巴莫科技有限责任公司

Tianjin B&M—Tianjin B&M Science and Technology Co., Ltd.

成都巴莫 成都巴莫科技有限责任公司

Chengdu B&M—Chengdu B&M Science and Technology Co., Ltd.

• 华越/印尼华越 华越镍钴 (印尼) 有限公司

Huayue Company/Indonesia Huayue Company—PT. HUAYUE NICKEL COBALT



华飞/印尼华飞

华飞镍钴 (印尼) 有限公司

Huafei Company/Indonesia Huafei Company—PT. HUAFEI NICKEL COBALT

KNI

印尼科拉卡镍公司

KNI-PT KOLAKA NICKEL INDONESIA

• CDM

刚果东方国际矿业简易股份有限公司

CDM—CONGO DONGFANG INTERNATIONAL MINING SAS

MIKAS

卡松波矿业简易股份有限公司

MIKAS—LA MINIERE DE KASOMBO SAS

IPIP

印尼波马拉工业园有限公司

IPIP—INDONESIA POMARA INDUSTRIAL PARK Co., Ltd

• 前景锂矿

津巴布韦前景锂矿公司

PLZ—PROSPECT LITHIUM ZIMBABWE (PVT) LTD



# 数据说明

**Data Description** 

本报告披露的信息和数据来源于公司统计报告并通过相关部门审核,2024 年完整财年的相关数据以暂未发布的 2024 年可持续发展报告为准。本公司承诺本报告不存在任何虚假记载或误导性陈述,并对内容真实性和准确性负责。报告中如无特殊说明,所有金额均以人民币表示。

The information and data disclosed in this report are derived from the Company's statistical report and reviewed by relevant departments. The relevant data for the full fiscal year of 2024 shall be subject to the 2024 Sustainability Report that has not yet been released. The Company promises that there is no false record or misleading statement in this report, and is responsible for the authenticity and accuracy of the content. Unless otherwise specified in the report, all amounts are expressed in RMB.

