



尚舜化工  
SUN SINE

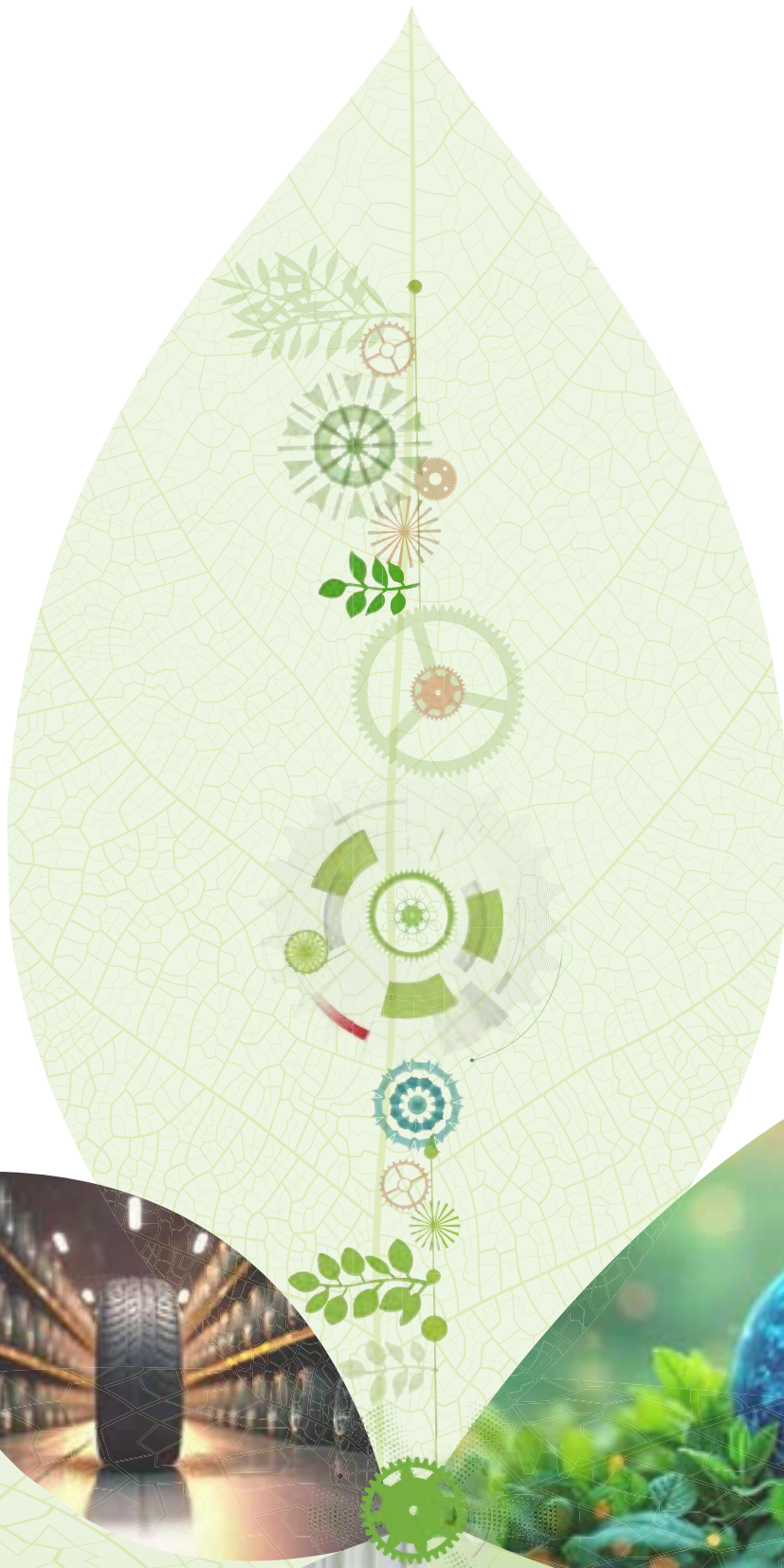
CHINA SUNSINE CHEMICAL HOLDINGS LTD.

# GEARING UP FOR SUSTAINABLE GROWTH



# 2024

SUSTAINABILITY REPORT



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# CHAIRMAN'S MESSAGE

## 主席致辞

Green chemicals,  
Growing for the future

绿意化工，行稳致远



# CHAIRMAN'S MESSAGE

## 主席致辞

On behalf of the Board of Directors, I am pleased to present the Sustainability Report of China Sunsine Chemical Holdings Ltd. (“**China Sunsine**” or the “**Company**”), together with its subsidiaries, collectively the “**Group**”) for the financial year ended December 31, 2024 (“**FY2024**”).

2024 has been one of profound transformation and adaptability for businesses around the globe. In the face of a complex economic landscape marked by high interest rate, high inflation, volatile energy prices, persistent geopolitical tensions, and a slowdown in global trade, companies have had to navigate numerous challenges while remaining resilient. The evolving macroeconomic environment, compounded by uncertainties surrounding the global supply chain and climate change, has underscored the need for long-term, sustainable business practices.

Despite these challenges, China Sunsine has made commendable strides in advancing its sustainability agenda while continuing to deliver strong financial performance. The Group's focus on driving production efficiency and technology innovation has enabled us to weather external pressures and build a foundation for sustained growth. As we work towards aligning our operations with the evolving expectations of global markets, we remain committed to our vision of becoming a leader in green and sustainable production within the rubber chemicals industry.

This year, we have seen continued progress in our major expansion projects, which are critical to supporting the growing demand for our products in both domestic and international markets and secure supply chain by self-sufficiency. Firstly, the Phase 2 expansion of the 30,000-tonne insoluble sulphur project, its construction and installation of machinery has been completed. Trial run is expected to start in the first half of this year. Secondly, the Phase I 30,000-tonne out of total 60,000-tonne per annum High Quality MBT Project (the “**MBT Project**”) was completed and commercial production commenced in 2024. Phase II 40,000-tonne project is undergoing preparation process. This innovative MBT Project developed jointly by our own R&D team and Tsinghua University is poised to transform the industry with its environmentally friendly, automated, and continuous production processes.

我谨代表董事会，很高兴地向大家呈现中国尚舜化工控股有限公司（“中国尚舜”，连同其子公司合称“集团”）截至2024年12月31日的2024财年的《可持续发展报告》。

2024年，对于全球企业而言，是充满深刻转型和适应的一年。在经济环境复杂多变的背景下，包括高利率、高通胀、能源价格波动、持续的地缘政治紧张局势和全球贸易放缓，企业不得不在应对诸多挑战的同时保持韧性。全球供应链的不确定性和气候变化的压力更加突显了长期可持续商业实践的重要性。

尽管面临这些挑战，中国尚舜在推动可持续发展战略方面取得了显著进展，同时也实现了强劲的财务表现。集团聚焦提高生产效率和技术创新，使我们能够有效应对外部压力，并为持续增长奠定了坚实的基础。在迈向全球市场不断发展的过程中，我们始终致力于成为橡胶助剂行业绿色可持续生产的领导者。

今年，我们在扩产项目上也取得了显著进展，这些项目对于满足国内外市场对产品的持续需求以及自给自足、保障供应链安全方面至关重要。第一，二期3万吨不溶性硫磺项目的建设和安装已经完成，预计在2025年上半年试车生产。第二，总产能6万吨首期2万吨的高性能MBT项目也已完成，并已开始商业化生产，二期4万吨的项目也在筹备中。该MBT项目采用由我们集团的研发团队和清华大学共同研发的连续性溶剂法生产工艺，为推动行业朝着更清洁、自动化和连续化的生产方向发展做出了积极的贡献。

# CHAIRMAN'S MESSAGE

## 主席致辞

In FY2024, our production and sales volumes continued their upward trajectory, demonstrating the strength of our strategic focus on optimising both capacity and operational efficiency. This was achieved despite ongoing cost pressures from heightened competition. As a result, the Group maintained its market share in both domestic and international markets, reaffirming its position as the world's largest producer of rubber accelerators and China's leading rubber chemicals enterprise.

As part of our commitment to sustainability, we are proud to report that our green initiatives have been at the forefront of our operations. From energy conservation and emission reductions to waste management and the continuous upgrade of our environmental protection equipment, the Group continues to invest in sustainable practices that will minimise our ecological footprint. Since last year, we had taken significant steps towards enhancing our understanding of climate-related risks and opportunities, as we worked towards implementing the recommendations of the Task Force on Climate-related Financial Disclosures (“TCFD”).

Our ongoing efforts to promote green production and reduce carbon emissions align with China's long-term sustainability goals and contribute to the global transition to a low-carbon economy. We are committed to upholding the principles of “green, low-carbon, and sustainable development” in every aspect of our business.

While driving business growth, the Group remains committed to creating value for customers and fulfilling its social responsibilities. China Sun sine's recognition and influence among customers continue to grow, with most clients now considering Sun sine's products as their top choice. In 2024, the Company placed employee well-being on par with customer interests, ensuring income growth for its workforce. This strengthened employees' confidence in the Company's future, boosted their enthusiasm, and enhanced overall cohesion.

2024财年, 尽管市场竞争加剧, 我们的生产和销售仍持续增长, 体现了我们在优化产能和运营效率方面的战略成果。通过提升产能和优化运营, 集团在国内外市场的市场份额进一步扩大, 我们继续稳居全球最大的橡胶促进剂生产商和中国领先的橡胶助剂企业。

作为我们对可持续发展的承诺的一部分, 我们自豪地报告, 绿色生产始终是我们运营的核心。从节能减排、废物处理到环保设备的持续升级, 集团不断加大对可持续实践的投入, 旨在减少生态足迹。自从去年开始, 我们就已提升了集团对气候相关风险和机会方面的理解, 致力于执行《气候相关财务信息披露工作组报告 (“TCFD”)》的相关建议。

我们持续推动绿色生产和减少碳排放的努力, 与中国长期可持续发展目标相契合, 并为全球低碳经济的转型贡献力量。我们承诺在业务的各个方面遵循“绿色、低碳、可持续发展”的原则。

公司在发展的同时积极实现客户价值和员工价值。中国尚舜在客户中的认可度越来越高, 影响力越来越大, 多数客户把尚舜助剂作为首选。2024年公司把员工的利益放到和客户同等重要的位置, 确保了员工收入的增长, 全体员工增强了发展的信心, 激发了工作热情, 提高了凝聚力。

随着集团的持续发展, 我们始终坚守回馈社会的使命。多年来, 中国尚舜持续参与了包括捐资助学、扶贫和社区建设在内的多个公益和社会福利项目。

# CHAIRMAN'S MESSAGE

## 主席致辞

As the Group continues to grow, we remain dedicated to giving back to society. Over the years, China Sunshine has actively participated in various public welfare and social responsibility initiatives, including educational sponsorships, poverty alleviation, and community development projects.

Looking forward, we are confident that our continued investments in innovation, sustainability, and operational excellence will drive the Group's long-term growth and success. Our vision remains focused on creating value for our shareholders while enhancing our positive social and environmental impact. We are dedicated to working with our customers, partners, and stakeholders to build a more sustainable future for the rubber chemicals industry and beyond.

On behalf of the Board of Directors, I would like to extend my deepest gratitude to all of our employees, customers, business partners, and shareholders for your unwavering support and trust. We look forward to continuing our journey of sustainable growth and contributing to a greener, more prosperous world.

Let's continue to innovate, grow, and build a sustainable future together.

**Xu Chengqiu**  
Executive Chairman  
March 2025

展望未来,我们有信心通过不断加强创新、坚持可持续发展 and 卓越的经营管理等方面的努力,推动集团实现长期增长和繁荣。我们的愿景始终专注于为股东创造价值的同时,努力提升我们在社会和环境方面的正面影响。我们将与客户、合作伙伴和所有利益相关者共同努力,推动橡胶助剂行业及其他行业的可持续未来。

谨代表董事会,我衷心感谢所有员工、客户、业务伙伴和股东的坚定支持与信任。我们期待与大家继续携手,迈向可持续发展的旅程,并共同为建设更加绿色、繁荣的世界贡献力量。

让我们共同创新、共同成长,携手打造可持续的未来。

**徐承秋**  
执行主席  
2025年3月



# ORGANISATIONAL PROFILE

## 公司简介

China Sunsine Chemical Holdings Ltd. is a leading specialty chemicals producer and was listed on the Mainboard of the Singapore Exchange Securities Trading Limited on 5 July 2007. Its main subsidiary, Shandong Sunsine Chemical Co., Ltd. was established in 1977 and started as a chemical plant. It has total assets of RMB 4.68 billion, approximately 2,100 employees, and roughly 700 professional technical staff, and over 47 years of development. There are 6 production bases - Shandong Sunsine, Weifang Sunsine, Sheng Tao, Shandong Hengshun New Materials, and Guang Shun and Yongshun Environmental Protection. The Company produces more than ten products falling into three major categories, namely, rubber accelerators, anti-oxidants, and insoluble sulphur. Our products are widely used in the manufacture of rubber, tyre, shoes, belts, pharmaceuticals, and agrochemicals. Our products are exported to over 40 countries and regions. We ranked number one globally based on the market shares and total sales volume. We have over 1,000 customers, including 75% of the Global Top 75 tyre manufacturers. Guided by our development principle of “Adhering to technological innovation, market-oriented mindset, and utmost product quality; Striving for economies of scale, exploring and opening up new markets, actively developing new products, and improving the Group entirely”, we pursue the duty to lead the development of the world’s rubber chemicals, based on independent innovation to upgrade the industrial transformation and strive to achieve energy-saving, emission reduction, and sustainable development.

中国尚舜化工控股有限公司是一家专业化工企业，并于2007年7月5日在新加坡证券交易所主板上市。公司的主要生产子公司——山东尚舜化工有限公司始建于1977年，前身是国营山东省单县有机化工厂，至此报告发行时已经过47年的发展，目前拥有总资产46.8亿元，员工2,100多人，专业技术人员近700人，辖山东尚舜、潍坊尚舜、盛陶化工、恒舜新材料、广舜热力、永舜环保6个生产基地。公司产品主要有橡胶促进剂、防老剂、硫化剂等三大类十几个品种，广泛应用于橡胶、轮胎、胶鞋、胶管以及医药、农药等行业，出口40多个国家和地区，销量连续多年位居全球第一，拥有全球1,000多家的客户，包括超过75%的世界前75强轮胎企业。这些都是由于我们秉承“坚持科技兴化，坚持以市场为导向，以质量求生存，以经济效益为中心，努力开拓新市场，积极开发新产品，全面提高企业素质”的企业方针，以引领世界橡胶助剂发展为己任，依靠自主创新引领产业转型升级，实现节能减排和健康可持续发展。





# ABOUT THIS REPORT

## 关于此报告

We are pleased to present our annual Sustainability Report (“the Report”) for the financial year ended 31 December 2024 (“FY2024” or “Reporting Period”).

我们很高兴在此呈现集团截至2024年12月31日财政年度的年度可持续性发展报告。

The Group is committed to continually considering material economic, environmental, social and governance (“EESG”) topics as part of our core business strategy. The Board of Directors (“Board”) and senior management (“Management”) remain committed to establishing and maintaining an effective sustainability management framework, which is supported by underlying internal controls, risk management practices, clear accountability, and a reporting process. The Board evaluates and considers EESG risks and opportunities relevant to the Group during the formulation of overall business strategy, objectives, and performance measurements.

The data and information provided in this Report have not been verified by an independent third party. The management has relied on internal data monitoring and verification to ensure the accuracy of data and information. Our sustainability reporting process has been subjected to internal review by our internal audit department.

The Board oversees the management and monitors the materiality of the Group’s EESG factors to set targets for the Group’s material EESG factors. The objectives and the Group’s sustainability performance are taken into consideration by the Board in determining the Group’s strategic direction and policies.

In FY2024, we had focused on publishing our sustainability report. At the same time, we have invested resources in preparing the climate-related information disclosures and obtaining an in-depth understanding of climate-related risks and opportunities, as well as TCFD Recommendations, which are presented within the Report.

集团承诺将持续考量重大的经济、环境、社会及商业治理 (“EESG”) 作为集团商业策略的一个重要组成部分。董事会及执行管理层也承诺将建立并保持一个有效的可持续性发展管理框架, 并注重内部流程控制、风险管理、问责制度及汇报流程。董事会在制定集团商业策略、目标及考核方式时考量相关的经济、环境及治理方面的风险。

此报告中披露的数据及信息并未被独立第三方审核。管理层依赖集团内部控制流程来确保此报告中的数据及信息的准确性。此外, 我们的可持续发展报告流程已接受公司审计部的内部审查。

董事会总领EESG因素的管理及监督, 并制定集团重大EESG因素目标。这些目标及可持续发展表现被作为董事会制定集团策略及制度的一个重要考量因素。

2024年, 我们主要将精力放在发布可持续发展性报告上。同时, 我们也对今年发布的气候相关信息披露及深度理解气候相关风险和机遇以及 TCFD 建议上投入了资源。



# ABOUT THIS REPORT

## 关于此报告



### Reporting Period, Scope and Framework 报告期间、范围和框架

This Report has been prepared in accordance with the requirements of Rules 711A and 711B of the listing manual of the Singapore Exchange Securities Trading Limited (“SGX-ST”) and the Global Reporting Initiative (“GRI”) Standards 2021.

The Group has chosen the GRI framework as it is the most established international sustainability reporting standard that covers a comprehensive range of sustainability disclosures. Moreover, this structured framework promotes reporting a full and balanced picture of the Group’s material matters and the management of its impact.

This Report highlights the key EESG-related initiatives carried out during the 12-month period from 1 January to 31 December 2024, supported by data on lagging and leading performance indicators.

The report includes information on the Group’s operations carried out by the following entities:

- Shandong Sunsine Chemical Co., Ltd. (Shanxian, Shandong, PRC)
- Weifang Sunsine Chemical Co., Ltd. (Weifang, Shandong, PRC)
- Shandong Sheng Tao Chemical Co., Ltd. (Heze, Shandong, PRC)
- Shanxian Sunsine Hotel Management Co., Ltd. (Shanxian, Shandong, PRC)
- Shandong Fulong Villa Co., Ltd. (Shanxian, Shandong, PRC)
- Shanxian Guangshun Heating Co., Ltd. (Shanxian, Shandong, PRC)
- Shandong Hengshun New Material Co., Ltd. (Shanxian, Shandong, PRC)
- Heze Yongshun Environmental Protection Technology Co., Ltd. (Shanxian, Shandong, PRC)

This Report summarises the expectations from various stakeholders, the overall business environment that the Group is operating in and what the Group has done to ensure the sustainability of the Group.

此报告根据新加坡证券交易所上市手册第711A条及711B条的要求进行编写，按照符合全球报告倡议组织GRI2021(“GRI”)。

集团决定选用全球报告倡议组织准则进行编写此报告。是因为GRI是最著名的国际性可持续发展报告准则，并涉及详尽的可持续发展披露及框架适用范围。同时，此结构性框架能够更加全面而平衡的展示集团的重要方面及其集团如何管理这些重大方面的影响力。

此报告披露了中国尚舜集团在2024年度的12个月内，即从2024年1月1日到2024年12月31日，对经济、环境、社会和治理方面采取的自发行动。缺陷和突出的表现指标都由集团所有场所相关数据合并支持。

此报告包含以下子公司的数据及信息：

- 山东尚舜化工有限公司(中国山东单县)
- 潍坊尚舜化工有限公司(中国山东潍坊)
- 山东盛陶化工有限公司(中国山东菏泽)
- 单县尚舜酒店管理有限公司(中国山东单县)
- 山东浮龙度假村有限公司(中国山东单县)
- 单县广舜热力有限公司(中国山东单县)
- 山东恒舜新材料有限公司(中国山东单县)
- 菏泽永舜环保科技有限公司(中国山东单县)

此报告总结了各相关利益方的期望，集团运营总体商业环境及集团为了做到可持续性发展所做的工作。

# ABOUT THIS REPORT

## 关于此报告

### Reporting Period, Scope and Framework

报告期间、范围和框架



The information disclosed in this report, together with the information in the Group's annual report, will provide the reader with a more comprehensive view of the Group's performance. In the future business activities of the Group, the Management will make appropriate efforts to maintain or improve the standards of the individual ESG factors. In addition, in order to ensure the correctness of the data and information in the report, the Management will also consider engaging an independent auditor to review the data and information in the future.

In FY2024, we received feedback as well as suggestions for our Report which we greatly appreciate. In this Report, we have taken onboard the relevant feedback and suggestions. We continue to welcome feedback from our stakeholders with regards to our sustainability efforts as this will enable us to improve our policies, systems, and performance. A Survey Feedback Form is included on the last page of this Report. We would appreciate it if you could take a moment to complete the Survey Feedback Form and send it to 'srfeedback@sunsine.com'. Thank you!

此份报告中披露的信息,与集团年度报告中的信息一起,将会为读者提供一个对于集团运行状况更加全面的感官。在未来的集团商业活动中,管理层将适当地尽力保持或提高各个ESG因素的标准。并且,为了确保报告中数据及信息的正确性,管理层也将考虑在未来聘请独立审计师来审核这些数据及信息。

2024年,我们收到了部分利益相关方对我公司可持续性发展报告提出的意见和建议。我们公司对此表示感谢。在今年的可持续性发展报告中,我们采用了部分相关的反馈与建议。我们欢迎利益相关方对于本集团可持续发展的努力给予反馈,以便能够帮助我们提高并改进我们的制度、系统及成绩。我们在报告的最后加入了一张简单的调查反馈表,请在阅读完毕后花费您宝贵的几分钟时间,填写一下此调查反馈表,并扫描电邮至srfeedback@sunsine.com。十分感谢!



# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法



### Sustainability Governance 可持续发展治理

#### BOARD

China SunSine's Board incorporates sustainability issues (including climate-related risks and opportunities) as part of the Group's strategic formulation. It also offers guidance to the Sustainability Steering Committee ("SSC") in their deliberation of material EESG factors to China SunSine's business.

中国尚舜董事会将集团的可持续发展与气候相关问题作为其战略考量的重要方面，并对可持续发展委员会的工作做出指导。

#### SUSTAINABILITY TASK FORCE ("STF")

The STF includes representatives across functions and divisions that drives the sustainability programme of the Group.

STF包括各职能部门的代表，并推动集团的可持续发展计划。

#### SUSTAINABILITY STEERING COMMITTEE

The SSC develops sustainability objectives and strategy, as well as manages and monitors overall sustainability and climate-related performance of the Group. The SSC makes periodic reports to the Board.

SSC制定可持续发展与气候相关目标和战略，管理和监控集团的整体可持续发展绩效。SSC定期向董事会报告。

#### ALL STAFF

China SunSine's employees support the Group's sustainability initiatives, policies, and best practices.

中国尚舜的员工支持集团的可持续发展计划、政策和最佳实践。

To enhance our sustainability governance, the Company established a Sustainability Steering Committee led by the General Manager since 2017. During the year, the Management reaffirms the relevance of these EESG factors through an internal review, taking into account the stakeholders' feedback through various channels. Materiality review is conducted every year incorporating inputs from stakeholder engagements.

为推进可持续发展工作的开展，早在2017年公司便已成立了以总经理为主任的可持续发展委员会。今年，管理层通过内部审核，并参考各种渠道收集的利益相关方反馈，再次确定了这些EESG指标的有效性。每一年，管理层都会结合利益相关方的反馈，评估这些重要指标。

# OUR APPROACH TO SUSTAINABILITY 可持续发展方法

Sustainability Reporting Process  
可持续发展报告程序 



In ensuring the credibility of our reported sustainability information, an important starting point in our sustainability journey is to assign responsibility for the reporting process, clearly defining roles and enhancing our governance. Next, we focus on identifying relevant reporting frameworks and focus areas that align with the organisation's goals. Subsequently, we identify our key stakeholders which include, but are not limited to, customers, suppliers, employees, investors, and regulators, and adopt both formal and informal channels of communication to understand the needs of key stakeholders to incorporate their feedback into our corporate strategies. We then determine material aspects relevant to our business, set the scope and parameters of data collection and start collecting the data. Last, we disclose information coherently in this Report to communicate to the audience we intend to reach.

为了确保我们报告的可持续发展信息的可信度，我们可持续发展之旅的一个重要起点是为报告流程分配与可持续发展相关的责任，明确定义角色并加强我们的治理。接下来是确定相关的报告框架以及与组织目标一致的领域的优先顺序。随后，我们将确定主要利益相关者，包括但不限于客户、供应商、员工、投资者和监管机构，并采用正式和非正式的沟通渠道来了解主要利益相关者的需求，将他们的反馈纳入我们的企业战略。然后，我们将确定与我们业务相关的重要指标，设置数据收集的范围和参数，并开始收集数据。最后，我们将在本报告中以连贯的方式披露信息，使之向我们想要接触的受众传达信息。

# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法

### Stakeholder Engagement 重要利益相关方互动

The table below sets out the manner in which we engage our stakeholders:

下表显示我们通过各种的方式来与各利益相关方进行沟通：

Engagement frequency 频率：

- Ongoing持续进行 ● Annually年度 ● Semi-annually半年度 ● As needed按需要

Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key Concerns and Expectations 主要诉求	Our Responses and Actions 履责行动
<p>Customers and consumers 客户</p>  <p>Our customers are the heart of our business, and their continued satisfaction is important to us. 我们的客户是我们业务的核心，他们持续的满意对我们很重要。</p>	<ul style="list-style-type: none"> <li>● Hotline 热线</li> <li>● Email enquiries 电邮</li> <li>● Customer visit 客户拜访</li> <li>● Onsite audit 客户现场审计</li> </ul>	<p>Compliance operation 合规运营</p> <p>Providing green quality products 提供绿色优质产品</p>	<p>Sparing no efforts to ensure stable and continuous supply 全力保证持续稳定供应</p> <p>High quality source of materials and products 优质原料保障</p> <p>Establishing a two-way communication mechanism with customers 建立客户双向沟通机制</p> <p>Customer Satisfaction Survey 客户满意度调查</p>
<p>Communities 当地社区，公众和非政府组织</p>  <p>As a sustainable and community-oriented organising we believe our operations should provide social and economic benefits to local communities. 作为一个可持续和关注社区的企业，我们相信我们的运营应为当地社区提供社会和经济利益。</p>	<ul style="list-style-type: none"> <li>● Official website 公司官网</li> <li>● Social responsibility report 社会责任报告</li> <li>● Interviews and meetings 走访交流</li> <li>● Various social and charity events 各种社区和公益活动</li> </ul>	<p>Serving community development 参与社区建设</p> <p>Working for public benefit 投身社会公益</p> <p>Creating job opportunities 提供就业机会</p> <p>Helping poor and disadvantaged groups 支持贫困地区和弱势群体</p>	<p>Driving employment and local economic development 带动就业和当地经济发展</p> <p>Supporting local suppliers 扶持本地供应商</p> <p>Supporting education 支持教育事业</p> <p>Volunteer activities 志愿行动</p> <p>Contributing to the community environmental constructions 美化社区环境</p>

# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法

Stakeholder Engagement  
重要利益相关方互动



Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key Concerns and Expectations 主要诉求	Our Responses and Actions 履责行动
<p>Employees and trade unions 员工及工会</p>  <p>Our employees and the skills they provide are vital to the Group's current and future success. 我们的员工及其提供的技能对于集团目前和未来的成功至关重要。</p>	<ul style="list-style-type: none"> <li>Townhall sessions 职工大会</li> <li>Open dialogues among teams 民主讨论</li> <li>Intranet portal 内网门户</li> <li>Relevant information disclosure 相关信息披露</li> </ul>	<p>Guaranteeing their basic rights and interests 保障基本权益</p> <p>Offering suggestions for enterprise development 为企业发展提供建议</p> <p>Developing employee capabilities and promoting career development 促进能力提升和职业发展</p> <p>Sense of belonging and recognition 归属感和认同感</p> <p>Sharing the development achievements with the Company 共享企业发展成果</p>	<p>Protection of employee lawful rights and interests 保障员工合法权益</p> <p>Creating a good working environment 创造良好工作环境</p> <p>Organising employees' representative conferences 召开职工代表大会</p> <p>Carrying out employee training 实施员工培训</p> <p>Promoting the reward system for rational proposals 实行合理化建议奖励制度</p> <p>Increasing investment in employees' occupational health 加大员工职业健康投入</p> <p>Career planning and development path 职业生涯规划</p>
<p>Environmentalists 环保主义者</p>  <p>Environmentalists care about the environment and can be influential, and thus can indirectly affect our company. 环保人士关心环境并具有影响力，从而可以间接影响我们公司。</p>	<ul style="list-style-type: none"> <li>Regular reporting 定期报告</li> <li>Relevant information disclosure 加强信息披露</li> </ul>	<p>Realising cleaner production 实现清洁生产</p> <p>Implementing energy conservation and emission reduction 落实节能减排</p> <p>Protecting ecological environment 保护生态环境</p>	<p>Cooperating with environmental protection departments to conduct inspections 配合环保部门检查</p> <p>Promoting cleaner production 推进清洁生产</p> <p>Research and develop in green production process 研发绿色生产工艺</p> <p>Organising environmental protection activities 开展环保公益活动</p> <p>Waste recycling 废弃物回收利用</p>

# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法

### Stakeholder Engagement 重要利益相关方互动

Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key Concerns and Expectations 主要诉求	Our Responses and Actions 履责行动
<p>Government and regulators 政府</p>  <p>Regulators are our gateway to key markets and opportunities. Therefore, it is crucial that relevant agencies work closely together. 各政府监管机构是法律法规执行的监督者，因此，与相关机构密切合作至关重要。</p>	<ul style="list-style-type: none"> <li>● Regular reports 定期汇报</li> <li>● Participation in discussions 参与讨论</li> <li>● Face-to-face meetings 面谈</li> </ul>	<p>Abiding by laws and regulations 守法合规</p> <p>Serving national economic development 服务国家和当地经济发展</p> <p>Increasing the local employment rate 带动当地就业</p> <p>Ensuring production safety and protection of environment 确保安全生产，保护环境</p>	<p>Paying taxes 依法纳税</p> <p>Reporting to work regularly 定期汇报工作</p> <p>Realising prudent operation 实现稳健经营</p> <p>Strengthening safety management and environment protection 加强安全，环保管理</p> <p>Prioritising on local recruitment 当地招聘员工</p>
<p>Suppliers and service providers 供应商</p>  <p>Our suppliers provide us with the materials and services we need to enable our business to serve our customers and communities. 我们的供应商为我们提供所需的材料和服务，使我们的业务能够为客户和社区提供服务。</p>	<ul style="list-style-type: none"> <li>● Annual review and feedback sessions 年度审核及回馈</li> <li>● Face-to-face meetings 面谈</li> </ul>	<p>Realising fair and transparent procurement 实施公平、透明采购</p> <p>Promoting joint development 促进共同发展</p> <p>Timely fulfilment of the contracts 按时履行合同</p>	<p>Promoting stable purchasing policy 推行稳定采购政策</p> <p>Establishing fair and transparent procurement principle and process 建立公平透明的采购流程</p> <p>Helping suppliers make progress 帮助供应商进步</p>



# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法

Stakeholder Engagement  
重要利益相关方互动

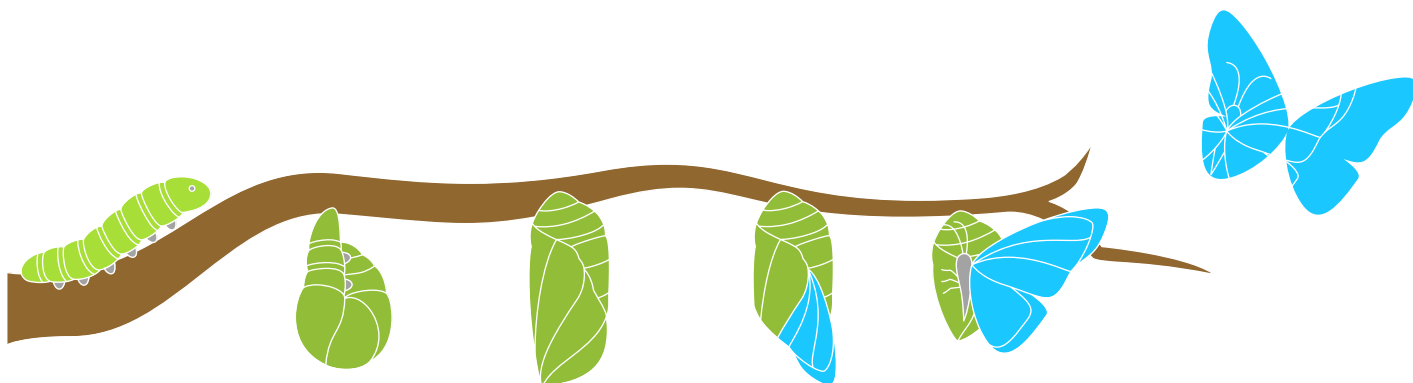


Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key Concerns and Expectations 主要诉求	Our Responses and Actions 履责行动
<p>Investors/ Shareholders 投资者/股东</p>  <p>Our shareholders are our source of capital and expect that we deliver continued profitability. 我们的股东是我们的资金来源，他们期望我们能够实现持续盈利。</p>	<ul style="list-style-type: none"> <li>● Group Annual Report 集团年报</li> <li>● Annual General Meeting 年度股东大会</li> <li>● Announcement 公司公告</li> <li>● Semi-yearly result briefings 半年度业绩简介会</li> <li>● Informal discussion 非正式讨论</li> </ul>	<p>Enhancing earnings capacity 增强盈利能力</p> <p>Improving corporate governance structure 完善公司治理结构</p> <p>Performing the obligation of information disclosure 履行信息披露义务</p>	<p>Complying with relevant listing rules and regulations 严格遵守上市公司准则</p> <p>Realising healthy growth 实现健康增长</p> <p>Establishing shareholder communication mechanism 建立股东沟通机制</p> <p>Issuing Annual Report on a timely basis 定期发布年度报告</p>
<p>Trade Associations 行业协会</p>  <p>Collaboration with trade associations promote sustainable development and industry optimisation. 与行业协会合作促进可持续发展和行业优化。</p>	<ul style="list-style-type: none"> <li>● Engagements through business partnerships 商业合作</li> <li>● Leading working groups in industry associations 行业协会理事单位</li> <li>● Face to face meetings and communications 相关会议沟通</li> </ul>	<p>Participating in the standardisation process of the industry 参与行业标准的制定</p> <p>Contributing to the sustainable development of the industry 促进行业持续健康发展</p> <p>Stimulating the technology transformation, upgrading and innovation 促进技术进步和产业转型升级</p>	<p>Active participation in the standardisation process of the industry 积极参与行业标准的制定</p> <p>Enhancement of innovation 加强技改</p> <p>Promoting industry optimisation 促进产业优化</p>

# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法

### Material Aspects Assessment 重要指标评估



#### IDENTIFICATION 识别

Identify actual and potential economic, environmental, social and governance impacts associated with the company.  
确定与公司相关的经济、环境、社会和治理方面的实际和潜在影响。

#### ASSESSMENT 评级

Assess the prevalence of sustainability factors across the Group and categorise similar sustainability factors.  
评估整个集团中可持续性因素的普遍性，并对类似的可持续性因素进行分类。

#### PRIORITISATION 划分优先级

Prioritise the impacts according to their significance to determine material sustainability factors for reporting.  
根据影响的重要性对影响进行优先排序，以确定报告的重要可持续性因素。

#### VALIDATION 验证

Material sustainability factors are reviewed internally by management and validated by the Board.  
由管理层内部审查重要的可持续性因素，并由董事会进行验证。

#### REVIEW 审查

Conduct a comprehensive and detailed review of material sustainability factors periodically to ensure incorporated of latest developments and current business conditions.  
至少每年对关键可持续性因素进行全面和详细的审查，以纳入最近的发展和当前的商业状况。

#### CONTINUAL INCREMENTAL IMPROVEMENT 持续改进

Our materiality assessment begins with identifying and assessing the actual and potential impact of sustainability factors from economic, environmental, social, and governance aspects on our business and the stakeholders' assessment and decision. In FY2024, we conducted a formal materiality assessment and engaged both internal and external stakeholders via materiality survey. The outcome of the said assessment resulted in a materiality matrix, whereby a total of 13 material ESG factors were reviewed by the Management and thereafter approved by the Board to be disclosed in the Report.

我们的材料性评估首先确定和评估经济、环境、社会和治理相关的可持续发展因素对我们的业务以及利益相关者的决策和评估的实际和潜在影响。2024财年，我们进行了正式的材料性评估，并通过重要性调查表收集内部和外部利益相关者对于重要可持续因素的反馈。我们通过上述评估的结果得到了一个重要性矩阵，其中有13个重要可持续因素经过了管理层的审查，并随后得到了董事会的批准在此报告中披露。

# OUR APPROACH TO SUSTAINABILITY

## 可持续发展方法

Material Aspects Assessment  
重要指标评估



- Economic Performance
- Anti-corruption
- Environmental Compliance
- Energy
- Emission
- Employment, Diversity and Equal Opportunity
- Certifications
- Occupational Health and Safety
- Training and Education
- Local Communities
- Water and Wastewater discharge
- Enterprise Risk Management ("ERM")
- Fair Operating Practice

# ECONOMIC 经济



## Economic Performance 经济绩效

At China Sunsine, we believe in creating long-term economic value for all our shareholders and key stakeholders by adopting responsible business practices and sustainably growing our business. For detailed financial results, please refer to the following sections in our Annual Report 2024:

- Financial Highlights, pages 2-3.
- Operations & Financial Review, pages 10-13.
- Financial Statements, pages 59-107.



## Production 生产量

We have achieved rapid capacity expansion since our IPO. Total annual production capacity increased by more than five times from 44,000 tonnes per annum in FY2007 to 254,000 tonnes per annum in FY2024 (excluding semi-finished products for internal production). We have also set long-term goals for the Group: Focusing on the rubber chemicals business; Strengthening the global market leadership position of rubber accelerators; Becoming a market leader of insoluble sulphur by expanding our production scale; Enhancing the market share of antioxidants and master batch; Leveraging China Sunsine's advantage in product quality, economies of scale, range of products, cost control, environmental protection, and market reach, to better serve the global tyre industry. To achieve our long-term goals, the Group has invested in the following projects leading up to FY2024:

In March 2019, the Group's main subsidiary, Shandong Sunsine, entered into an Investment Agreement with the Shan County Local Government. Under the terms of the agreement, the Local Government agreed to allocate Shandong Sunsine a piece of land in exchange for Shandong Sunsine's investment amounting to RMB 2.5 billion (including RMB 1.5 billion in property, plant, and equipment) to expand the production capacity of rubber chemicals. This development further strengthens our position as the leading rubber chemicals producer in the world.

The Group planned to use approximately 300 mu of the land to build and construct a 60,000 tonnes per annum insoluble sulphur production plant. The construction of

中国尚舜一直认为,只有通过采用负责的商业手段,才能为所有的股东及利益相关方创造长期的经济效益,集团才能长期可持续性发展。关于具体的财务表现,请参照2024年报:

- 财务摘要,年报第2-3页。
- 运营和财务分析,年报第10-13页。
- 财务报表,年报第59-107页。

自IPO以来,我们的产能取得了快速的扩张。总产能增长了近五倍,从2007年的每年44,000吨增长到2024年的每年254,000吨(不含用于内部生产的半成品)。

我们也建立了长期目标:抓住橡胶助剂的主业,巩固提升促进剂在全球的领先地位,通过扩大不溶性硫磺的市场规模,争取把不溶性硫磺做到全球领先的位置,扩大防老剂和预分散体的市场份额,在橡胶助剂领域树立质量、规模、品种、成本、环保、市场等综合优势,更好地服务全球轮胎行业。

为了实现我们的长期目标,2024年,集团主要开展了以下几个项目:

2019年3月,山东尚舜与单县当地政府签署了投资协议,当地政府同意出让一宗土地给山东尚舜,山东尚舜同意分批投资不超过25亿元人民币(其中,固定投资为15亿元人民币),以便进一步扩大橡胶助剂的产能,并进一步的加强集团在世界橡胶助剂行业的市场领先地位。

Phase 1 30,000 tonnes per annum insoluble sulphur plant was completed. Phase 2 construction began in FY2022, and in FY2024, the production plant's equipment and machinery have been fully installed and successfully passed the fire safety inspection. The plant is now prepared for trial production, with the necessary procedures currently underway. This facility improved product quality and yield, reduced raw material consumption, raised the level of automation and improved productivity, reduced labour intensity, and improved the safety and environmental friendliness of the production sites. The commissioning of this project has further enhanced the Group's production capacity and increased its market share of insoluble sulphur products.

The Group has grown consistently and the production quantity of CBS, TBBS and other products has increased. Likewise, the demand for MBT is also increasing. In order to overcome the gap in MBT production, reduce costs and improve quality, the Group has decided to implement a continuous high-performance MBT Project.

MBT project adopts continuous solvent MBT production innovation which was developed jointly by the R&D team of Shandong Sunline and a team of academicians led by Madam Chen Bingzhen of Tsinghua University. This process and method can achieve the continuous production of MBT and the conversion rate of MBT in this process is better with higher product quality and it only produces a small amount of wastewater and waste salt, as compared with the current acid-base method. Thus, this MBT Project not only reduces the environmental risks but also achieves cost advantages. The successful implementation of the project will fill the gaps in China's continuous solvent high-performance MBT market and promote the transformation of China's rubber chemical industry towards automation and continuity. It is of significance for the rapid development of China's rubber chemicals, tyres, and even the automobile industry.

The total production of MBT Project is 60,000 tonnes per annum over two phases. The 20,000 tonne per annum facility under Phase 1 of the 60,000 tonne per annum continuous automated solvent-based MBT Project has successfully completed trial production and is now fully operational. In FY2024, the facility produced 19,755 tonnes of MBT, significantly reducing production costs. Building

集团将此宗土地中的300亩，建设年产6万吨高热稳定性不溶性硫磺生产基地，一期3万吨/年生产车间及配套工程已建成投产。第二阶段建设始于2022财年，并在2024年完成了生产厂设备和机械的全部安装工作，同时顺利通过了消防验收。目前，工厂已准备好进行试生产，相关手续正在办理中。该项目提高了产品质量和收率，降低了原材料消耗，大幅度提高了自动化程度和劳动生产率，降低了劳动强度，改善了安全、环保和作业现场。该项目的投产，进一步提高了集团不溶性硫磺产品生产能力，提高了市场占有率。

随着集团的日益发展，CBS、TBBS等产品产量的提升，对MBT的需求量也在逐渐增加。为了克服MBT产量的缺口、降低成本、提高质量，集团决定上马连续化溶剂法高性能促进剂MBT项目（“MBT项目”）。

该项目所采用的是由山东尚舜研发团队和清华大学陈丙珍院士团队共同研发的连续化溶剂法高性能促进剂MBT生产工艺。该工艺能实现MBT的连续化生产，并且，与目前的酸碱法相比，该工艺MBT的转化率更高，并只产生少量的废水废盐，且产品质量较好。因此，该项目不但能减少公司的环保风险，也具有一定的成本优势。该项目的实施将填补我国连续化溶剂法高性能MBT市场空白，推动我国橡胶助剂行业向清洁化、自动化、连续化转型升级，对我国橡胶助剂、轮胎乃至汽车工业的快速发展具有重大的战略意义。

项目总产能为6万吨/年，计划分两期进行。6万吨/年连续自动化溶剂法MBT项目第一阶段年产2万吨设施已成功完成试生产并全面投入运营。2024年，该设施生产了19,755吨MBT，显著降低了生产成本。在第一阶段市场成功的基础上，公司已在做第二阶段4万吨产能的准备工作，计划于2025年开始建设并完成。

# ECONOMIC

## 经济



### Production 生产量

on the market success of Phase 1, the Company is in the process of preparation of Phase 2 of the 40,000 tonne per annum capacity, which is scheduled for completion by 2025.

In order to reduce environmental risks and waste treatment costs, the Company acquired Heze Yongshun Environmental Protection Technology Co., Ltd. in July 2020, a hazardous waste disposal enterprise at a cost of RMB 43 million. In addition, the Company decided to invest a total of RMB 600 million to construct in the Shanxian Chemical Industry Zone, over numerous phases, a controlled landfill with a total storage capacity of 430,000 cubic meters, to provide a comprehensive solution to the treatment of all wastes generated during our production process and to mitigate the related environmental risks. This landfill project allows the Group to not only dispose of its own solid and hazardous waste within the prevailing legal and government regulations, but also effectively supports the solid and hazardous waste disposal needs of the surrounding areas. In May 2021, phase 1 of the landfill project (30,625 cubic meters with the capacity to process 50,000 tonnes of hazardous waste) was completed and commissioned into operation. This was followed by phase 2 of the landfill project. In FY2022 phase 2 of the landfill project (36,750 cubic meters with the capacity to process over 50,000 tonnes of hazardous waste) was completed and commissioned into operation. The rest of the project will be carried out progressively over time depending on market conditions and our own scale of production in the next few years.

As a result of the development of the domestic tire and automobile market, with our strength in quality, company scale, product diversity, cost-effectiveness, environmental protection and market, we overcome the challenges posed by domestic and international political and economic conditions, our total production and sales volume for FY2024 increased to 218,473 tonnes and 214,094 tonnes (FY2023: 208,566 tonnes and 206,996 tonnes), respectively. The per capita production and sales were 102.81 tonnes and 100.75 tonnes respectively (FY2023: 98.57 tonnes and 97.82 tonnes). The increase in per capita production was mainly due to the increase in the use of automation in the manufacturing process. Per capita sales had improved as the Group was able to coordinate the production and sales volume well, increasing sales as production volume increased.

为了降低公司的环保风险,并节约处理成本,公司于2020年7月花费4,300万元收购了一家危险废物处置企业——菏泽永舜环保科技有限公司。为了进一步降低风险,全套处置产生的危废,公司决定在单县化工园区共投资6亿元分批建设固危废刚性填埋场,总库容达到43万立方米。此填埋场项目不仅能够合规合法处置公司的固危废,还能有效解决周边地区固危废处置的难题。2021年5月,刚性填埋场一期工程30,625立方米(处理危废能力约合5万吨)建设完成并投入使用。2022年,二期填埋池36,750立方米(处理危废能力约合5万余吨)建成并投入使用。总项目的剩余产能将根据市场情况在后面年限分批次进行。

乘着国内轮胎、汽车市场强劲发展,借助我们在质量、规模、品种、成本、环保及市场等方面的优势,克服市场、国内国际政治经济形势的不利影响,集团在2024年度的产销量均有大幅度上升,全年产量及销量各为218,473吨及214,094吨(2023年:208,566吨及206,996吨),产销量均有不同程度的上升。人均产销量分别为102.81吨及100.75吨(2023年:98.57吨及97.82吨)。人均产量的提高主要得益于自动化规模的扩大,产量的提高并不需要员工数目的同比提高。人均销量的提高主要是由于集团正确的“产销平衡”策略



# ECONOMIC 经济

## Market Presence 市场表现



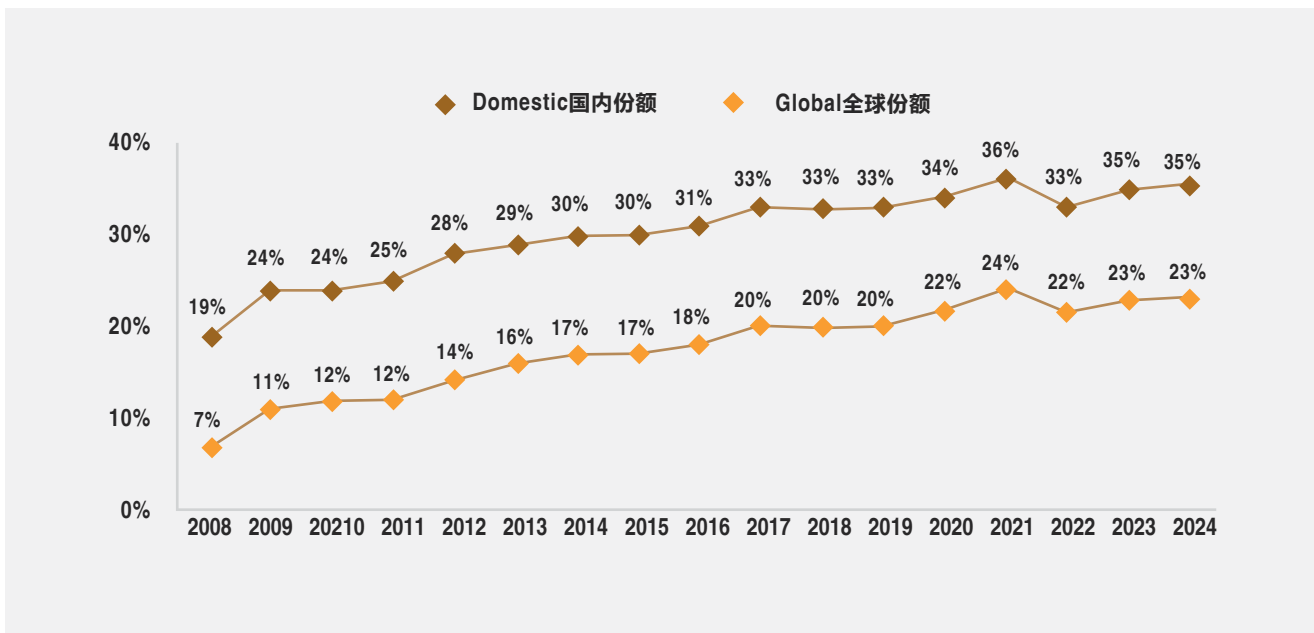
Our customer base mainly comprises tire companies that provide products and services to the automobile industry. We have over 1,000 customers around the world and continue to serve more than 75% of the Global Top 75 tire manufacturers, such as Bridgestone, Michelin, Goodyear, Pirelli, Sumitomo, Hankook, Yokohama, CST Tires, Kumho Tire, as well as PRC tyre giants such as Zhongce Rubber, Sailun Tyres and Linglong Tire etc.

我们的客户主要是为汽车工业提供产品的轮胎公司。我们拥有全球1,000多家客户并且持续服务于75%的全球前75家轮胎制造商。国际客户例如普利司通、米其林、固特异、倍耐力、住友橡胶、韩泰轮胎、优科豪马轮胎、正新集团、锦湖轮胎，以及中国客户如中策橡胶集团、赛轮和玲珑等。

For the past few years, the Group has been the world's No. 1 producer of rubber accelerators. Due to the absence of publicly available data on the market size of products, we have performed an assessment internally of our accelerator product's market share in the chart below.

这几年来，我们的主要产品促进剂一直保持世界第一的市场领先地位。由于无国际和国内促进剂市场规模的公开信息，下表显示根据我司自身测算的促进剂产品在国内外及全球的市场份额。

## Our Rubber Accelerators Product's Market Share 集团促进剂产品市场份额



# ENVIRONMENTAL

## 环境

**As a chemicals company, environmental protection is a very important issue to us. We focus on creating value through offering products and services that minimally impact the environment, whilst also making efforts to reduce our environmental footprint during the production process.**

作为一家化工企业,环境保护是非常重要的课题。我们致力于通过提供对环境影响最小的产品和服务来创造价值,同时也努力在生产过程中减少对环境的影响。

“Building a beautiful harmony in Sunsine” is our mission statement, illustrating our relentless commitment to incorporating sustainability into every aspect of our business ethos. We strive to develop our business responsibly and efficiently through conserving resources, being environmentally friendly, and investing in the latest technology to drive sustainable development. Every individual in the organisation takes our mission statement to heart to move the business forward responsibly and efficiently. We have raised awareness throughout the organisation and have put in place procedures to monitor wastewater, toxic gases, odour, and all waste treatment processes. We adopt an approach we call “manage the source, control the process, govern the output” to achieve sustainable development and overcome any challenges we encounter along the way.

We have implemented ten key environmental initiatives and related policies which are in accordance with environmental laws and regulations issued by the Authorities. These will strengthen the Group’s environmental management and technological capabilities. These initiatives include advanced pollution control facilities, a water recycling project, a solid waste disposal system, an approved biological waste pool, a real-time monitoring system, an emergency response pool for water treatment, a set of contingency plans, a fully operational laboratory, a system of accurate operational records keeping, and a high-performance environmental management team.

Our environmental management team comprises 131 employees (FY2023: 130 employees), all of whom are well-equipped with relevant environmental protection knowledge and experience. This includes 2 (FY2023: 2) postgraduate staff specialised in environmental protection and 9 (FY2023: 9) degree holders who are dedicated to the

在企业发展过程中,公司始终坚持环保是企业发展的第一要务的理念,把环保工作作为企业的“生命工程”来抓,牢固树立资源节约、环境友好、科学发展、可持续发展的生产经营理念,在环保治理上不惜投资,把“建设美丽和谐尚舜”作为我们企业发展的一种责任、一项使命来认识并身体力行。在公司内部明确要求环保治理必须再上新台阶,各级各部门要提高认识,主动对废水、废气、异味、废渣全面治理,全员、全时段、全方位抓环保,采取“从源头抓、从中间控、从未端治”的环保管制模式,彻底实现污染物的达标排放,消除制约发展的瓶颈,为公司的可持续发展打下坚实的基础。

贯彻环境保护法律法规及相关政策的要求,领导推进公司环保工作的全面开展;以提高企业治污能力为出发点,着力加强企业环境基础设施建设,积极响应“十个一工程”建设结合公司自身实际,高标准建设起一套技术先进的治污设施、一套中水回用工程,一套固废处置系统,一个规范的排污口和生物指示池,一套在线监控系统,一个事故应急处置池,一套科学的应急预案,一个标准化的实验室,一套精细化的台账和运行记录及一支水平较高的环境管理队伍,全面提升了公司的环保管理和技术水平。



# ENVIRONMENTAL 环境

Company's environmental research and provide support for our environmental protection technology. We have also formed an Environmental Protection Committee which consists of the General Manager and Environment Manager to oversee the implementation of environmental protection technology.

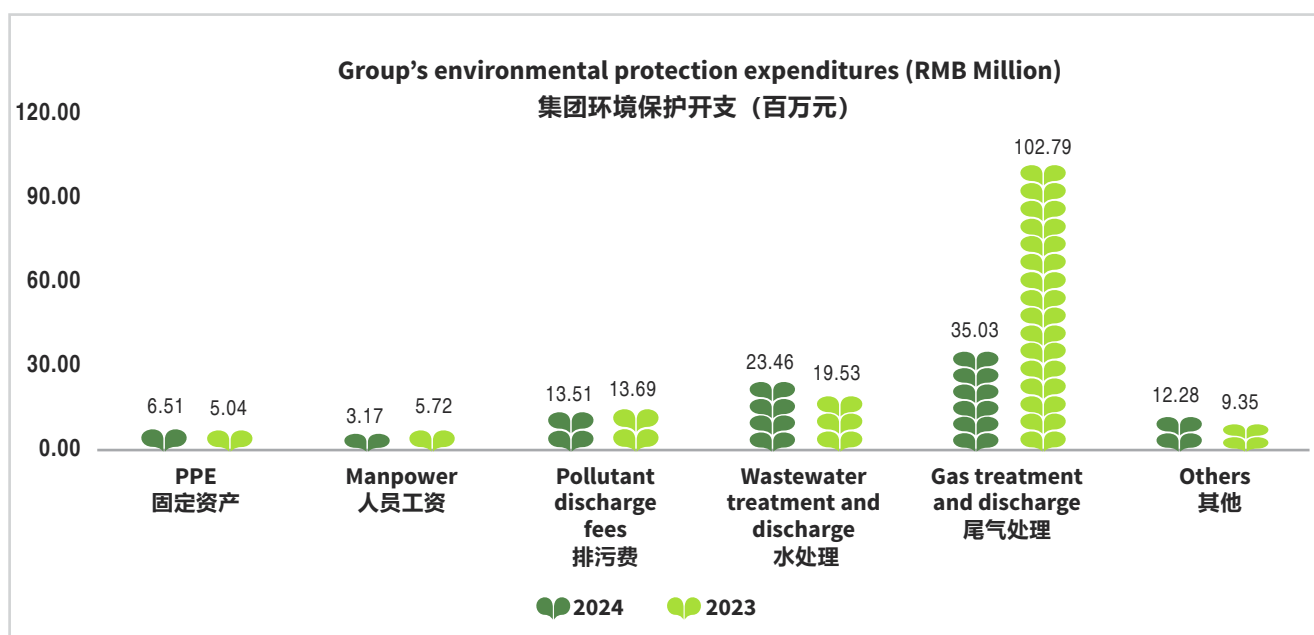
We continuously enhance employees' awareness and capabilities regarding environmental protection through training programmes, covering national environmental laws and regulations, company-specific environmental policies, and operational procedures for wastewater, air emissions, and solid waste management. The training also includes measures to conserve water, electricity, steam, and natural gas, as well as initiatives to reduce greenhouse gas and VOC emissions. As of 2024, 100% of employees have undergone specific environmental training.

The following chart shows the breakdown of the Group's environmental protection expenditures. Our investment in environmental protection in FY2024 was RMB 93.96 million (FY2023: RMB 115.11 million). The reduction in environmental protection expenditure in FY2024 was mainly due to reduced investment in environmental protection equipment and lowered operating expenses for gas treatment and discharge. There is no increase in large environmental protection equipment, and the treatment cost of wastewater, waste gas and solid waste management was reduced due to the implementation of energy-saving and emission-reduction measures.

公司目前拥有一支实力雄厚的环保专业队伍,包括环保专业人员131人(2023年:130人),其中环境专业研究生2人(2023年:2人),本科生9人(2023年:9人),专门致力于公司环保问题的研发治理,为公司的环境保护提供强有力的技术支持;成立了以总经理为主任,以环保经理为副主任的环境保护委员会。

我们持续加强对全体员工进行环保意识和能力的培训,培训内容包括国家环保方面的法律法规及公司环保方面的规章制度,废水、废气、固废等装置的操作规程,节约水、电、蒸汽、天然气的措施,减少温室气体、VOCs排放的措施等。2024年,接受过特定环境问题培训的员工占所有员工的100%。

我们不断提高我们的环境保护能力。以下图表显示集团环境保护开支明细,2024年在环境保护方面的支出为9,396万元(2023年:1.1511亿元)。相比2023年,今年环境保护支出减少主要是由于对环境保护设备的投资减少以及气体处理和排放的运营成本降低。大型环境保护设备没有增加,废水、废气和固废管理的处理成本也因实施节能减排措施而有所降低



# ENVIRONMENTAL 环境

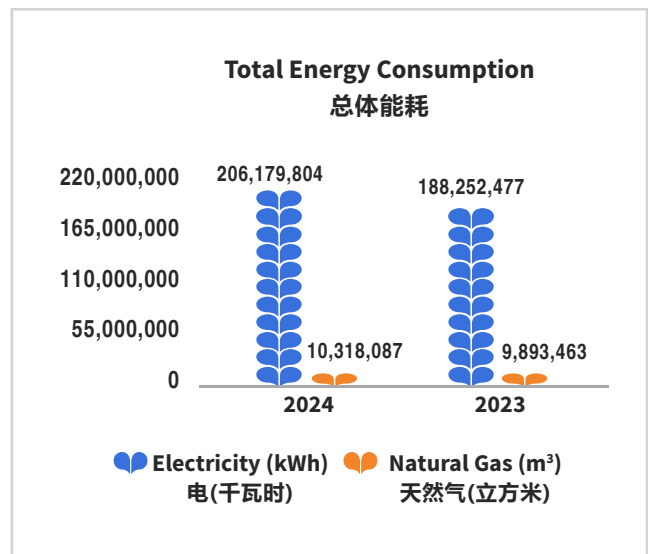
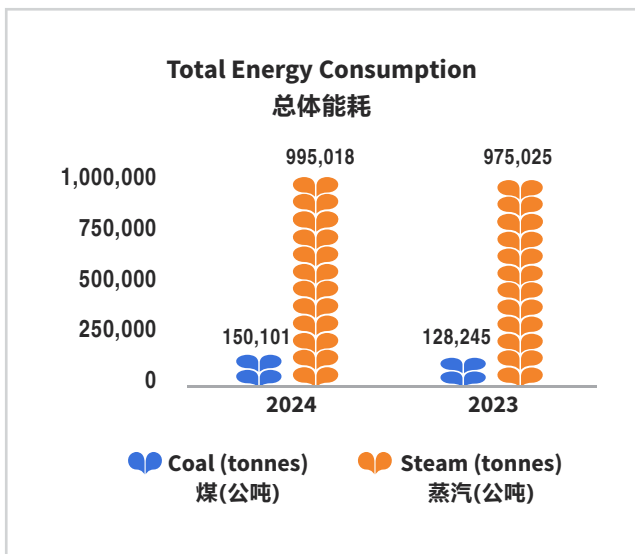


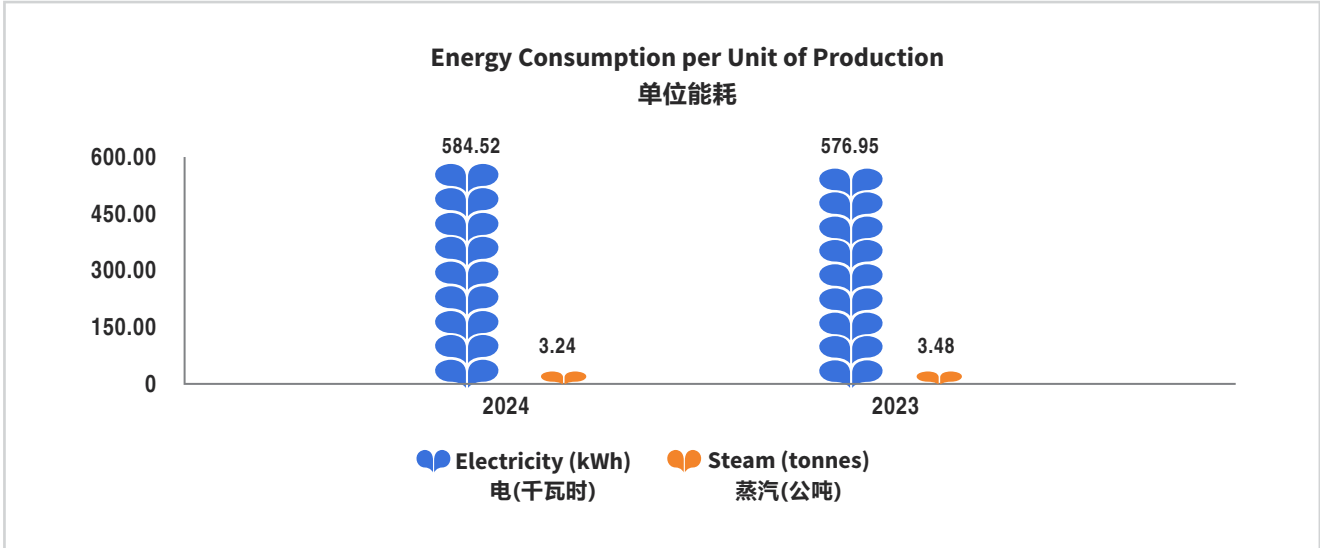
Our production uses coal, electricity, steam, and natural gas. Coal is used to produce the steam required for the desiccation process. The following two charts show our Group's total energy consumption and unit energy consumption in FY2023 and FY2024.

There was an overall increase in total energy consumption in FY2024, with a specific rise in coal and electricity consumption due to the higher production volume. The production of finished products available for sale in FY2024 reached 218,473 tonnes, an increase of 9,907 tonnes compared to FY2023, representing a growth of 4.75%. Total production in FY2024, including both finished products for sale and semi-finished products for internal use, reached 307,148 tonnes—an increase of 26,866 tonnes from FY2023, reflecting a growth of 9.59%.

我们加工产品需要煤、电、蒸汽和天然气作为能源动力。使用煤是为了生产蒸汽用于供热，并用来干燥我们的产品。以下两张图表展示了本集团在2023和2024年度的总能源消耗及单位能源消耗情况。

在2024年，总能源消耗整体增加，煤炭和电力消耗因生产量增加而有所上升。2024年可供出售的成品产量为218,473吨，比2023年增加了9,907吨，增幅为4.75%。2024财年的总生产量，包括供出售的成品和供内部使用的半成品，总计为307,148吨，比2023财年增加了26,866吨，增幅为9.59%。





To reduce emissions, wastages, and environmental pollution at Shandong Shanxian Chemical Industrial Zone, Shanxian local government authority had required all companies to stop using their own boilers. The local authority also appointed our Group to set up a centralised heating company to provide steam and electricity to all other companies in the industrial zone. Thus, in 2013, the Group set up a centralised heating company - Shanxian Guangshun Heating Co., Ltd. (“**Guangshun Heating**”). Total planned capacity for Guangshun Heating was 4 boilers and 3 generators (i.e., 4x130t/h boiler + 3xCB12MW turbine + 3x15MW generator). The construction comprises 3 phases. Phase 1 of this construction, consisting of 2 boilers (1 in use and 1 on standby) and 1 generator, commenced operations at the end of 2013. Phase 2 of the construction to add on 1 boiler and 1 generator was completed in 2018 and commenced operations in 2018. Most of the steam and electricity generated by Guangshun Heating is consumed mainly by the Group, and the rest by other companies in the industrial park.

In FY2024, Guangshun Heating produced 100.13 million kWh (FY2023: 95.48 million kWh) of electricity for internal consumption. It also produced 985,940 tonnes (FY2023: 900,463 tonnes) of steam of which 757,483 tonnes (FY2023: 764,711 tonnes) was consumed internally. These internally generated and consumed steam and electricity were not excluded in the tables above.

为了减低公司所在地山东单县化工园区的排放, 避免资源浪费和环境污染, 单县政府要求园区内各企业停止使用自备锅炉, 并委托我司成立一家集中供热公司, 向园区各企业进行集中供热。2013年, 集团成立了一家集中供热公司单县广舜热力有限公司(“广舜热力”), 建设规模为“4炉3机”, 即“4x130t/h的循环流化床锅炉+3xCB12MW抽背汽轮机+3x15MW发电机”。其中“2炉1机”(1开1备)已于2013年底投入使用, 能够生产蒸汽并发电。2018年, 二期项目的“1炉1机”的建设项目也已投入使用。大部分广舜热力生产的蒸汽和发的电都在集团内部消耗, 其它部分外供园区企业。

2024年, 广舜热力发电10,013万kWh, 全部用于集团内部消耗(2023年:9,548万kWh); 产蒸汽985,940吨(2023年:900,463吨), 其中757,483吨(2023年:764,711吨)供集团内部使用。这些内部产生并消耗的汽、电尚未在上表中剔除。

# ENVIRONMENTAL

## 环境



To manage energy effectively, we have adopted the following measures:

1. Communicate to management and staff regarding national and local energy conservation laws and regulations and the Group's energy management policies to enhance their awareness.
2. Comply strictly with the "Responsibility System for Performance Management of Workshop Objectives" formulated by the Group to establish and improve various energy-saving management systems.
3. Require routine inspections and monitoring by the energy management staff to ensure compliance with policies. Develop corrective measures, carry out remediation and implement timelines to identify root causes of problems, so that energy wastage problems can be reduced or alleviated.
4. Require an energy-saving administrator for each workshop to conduct inspection on a regular or random basis. Energy consumption analysis reports are to be prepared and submitted. Corrective actions are to be implemented within the deadline to achieve 100% remediation.
5. Identify and evaluate significant energy usage factors and establish energy control methods. Such methods will be closely monitored to ensure effectiveness.
6. Each workshop is to establish its own energy-saving system and take effective measures according to the energy-saving objectives they have set. Each energy-saving team will evaluate the energy-saving results of each workshop.
7. Conduct regular inspections on equipment with significant energy consumption to identify potential energy-saving opportunities and recommend improvement measures.

为在做好能源管理工作,我们采取了以下措施:

1. 认真贯彻传达国家、地方的节能法律法规以及公司的能源管理规章制度,全面提高各级管理人员的节能意识。
2. 严格执行公司制定的《车间目标管理绩效考核经济责任制》的相关规定,建立健全各项节能管理制度,并加强学习与实践。
3. 能源管理人员加强日常巡回检查和考核工作,对查出的问题,制定措施,限期整改,消除能源跑、冒、滴、漏等浪费问题。
4. 督促各车间节能管理员定期或不定期开展节能检查和用能分析,并将检查记录和用能分析报表按时上报到节能办备案,限期整改,确保整改率达100%。
5. 做好重要能源因素的识别和评价工作,制订对重要能源因素的控制办法,并对其控制过程进行监督、检查、指导、管理。
6. 各车间积极围绕节能目标建立能源管理体系,采取有效节能措施,做好节能基础工作,节能办公室对各车间、工段节能目标统一管理并考核。
7. 定期对主要耗能设备运行状况进行监测并建立相关记录,识别评价出具有节能潜力的用能设备并提出改进措施。

# ENVIRONMENTAL 环境



8. Enhance energy-saving capability, promote the use of advanced technology, upgrade obsolete production equipment, and improve waste heat utilisation.
  9. The Group has strengthened its energy-saving training through regular checks and performance-based rewards and penalties. Monthly sessions are held, and departments must implement at least one energy-saving initiative each quarter. These efforts have helped reduce energy consumption per unit of production.
  10. Energy consumption is closely monitored with regular analysis and adjustments. Training and incentive programmes raise awareness and encourage employees to participate in energy-saving initiatives, contributing to lower energy consumption and production costs.
  11. The Group has promoted the adoption of advanced energy-saving technologies and implemented several equipment upgrades, improving overall energy efficiency.
8. 加大节能技改的力度, 推广先进技术, 改造落后的生产设备和余热利用, 取得明显的节能效益。
  9. 集团通过定期检查和基于绩效的奖励与惩罚加强了节能培训。每月组织培训, 部门每季度必须实施至少一项节能举措。这些措施有助于减少单位产品的能源消耗。
  10. 密切监控能源消耗, 并进行定期分析和调整。通过培训和激励措施提高员工意识, 鼓励员工参与节能举措, 从而减少能源消耗和生产成本。
  11. 集团积极推动先进节能技术的应用, 并实施了多项设备升级, 提高了整体能源效率。

1

## FY2024 Target 2024年目标

To ensure that energy consumption decreases and does not exceed that of last year.  
确保吨产品能源消耗不超去年, 并在此基础上有下降。

2

## FY2024 Performance 2024年完成情况

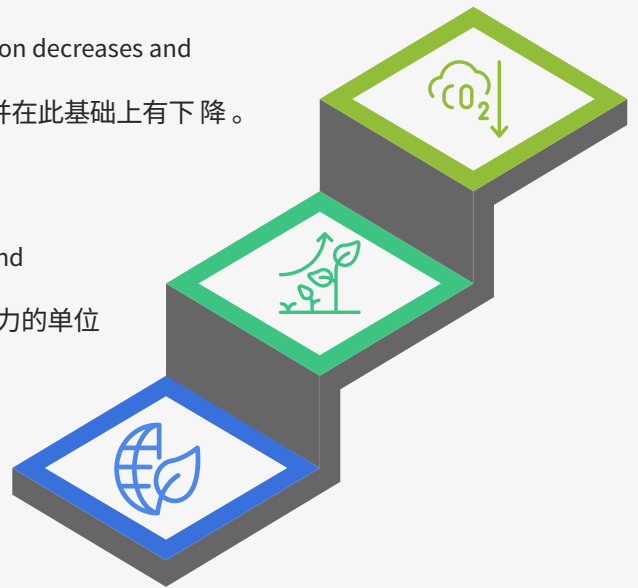
Target not achieved  
Unit consumption for coal, steam, electricity and natural gas has increased.  
部分目标未达成。蒸汽的单位消耗量降低、电力的单位消耗量有所增加。

3

## Short-, Medium-, and Long-Term Target

### 短期、中期和长期目标

Ensure that steam and electricity consumption per unit production does not exceed the previous year's levels and is further reduced.  
确保单位产品的蒸汽和电力消耗不超过上一年度水平, 并在此基础上进一步降低。



# ENVIRONMENTAL 环境



We consume a significant amount of water during production, predominantly industrial water. Industrial water is required for generating steam in order to dilute any chemicals released during production and to lower temperature.

在我们的生产过程中，会大量使用水。我们使用的水可分为两部分，一为工业用水，二为生活用水。工业用水主要用来产生蒸汽，及在工艺流程中用来稀释，水洗（物料纯化）和循环降温。

In FY2024, water consumption increased due to the rise in production volume of finished products for sale by 9,907 tonnes as compared to FY2023. This represents a growth of 4.75%. Similarly, the Group has seen an increase in the product for sale and semi-finished products, with an increase of 26,866 tonnes as compared to FY2023, signalling a growth of 9.59%.

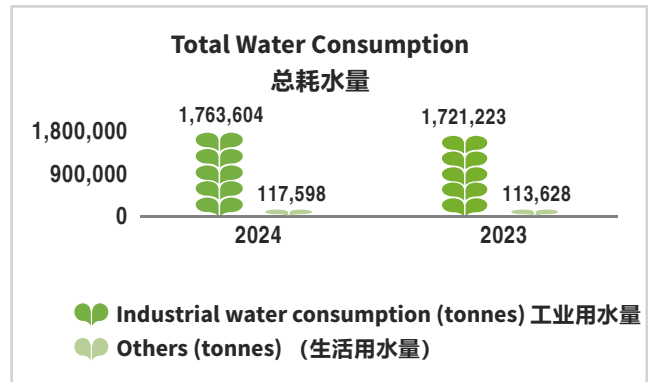
The water consumption per unit of production reduces by 0.42 from 6.55<sup>1</sup> cubic meters per unit of production in FY2023 to 6.12 cubic meters per unit of production in FY2024. Although there has been an increase in the water consumption during the year, the Group's initiatives have resulted in a reduction in water intensity.

Throughout the year, the Group implemented an initiative to collect and reuse steam condensate, thereby reducing freshwater consumption. We have utilised centralised intermittent flushing in bathroom facilities to minimise water wastage.

在2024年，由于销售成品产量比2023年增加了9,907吨，增长幅度为4.75%，因此水耗量有所上升。同样，集团的销售产品和半成品产量也有所增加，与2023年相比，增加了26,866吨，增幅为9.59%。

每单位生产的耗水量从2023年的6.55<sup>1</sup>立方米减少0.42立方米，降至2024年的6.12立方米。尽管年度总用水量有所增加，但集团的举措成功降低了单位水耗强度。

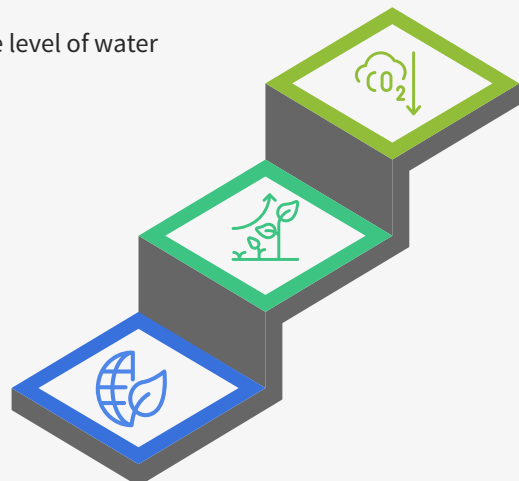
集团还对浴室设施进行了集中管理，并采用间歇冲水方式，以减少水资源浪费。



**1 | FY2024 Target 2024年目标**  
We aim to maintain the same level of water consumption per unit.  
单位总耗水量不增加。

**2 | FY2024 Performance 2024年完成情况**  
 Target achieved.  
Water consumption per unit has decrease.  
 目标达成。单位水耗已减少。

**3 | Short-, Medium-, and Long-Term Target 短期、中期和长期目标**  
We aim to maintain the same level of water intensity.  
维持相同水平的用水强度。



<sup>1</sup> Figures has been restated due to correction.  
由于修正，数据已重新表述

# ENVIRONMENTAL 环境

## Wastewater Recycling and Discharge 废水回收及排放



All wastewater generated from the production process is pre-treated and recycled for reuse. For those wastewaters that cannot be recycled and reused, further chemical and bio-treatment will be implemented in order to comply with the discharge limits (COD  $\leq$  500, NH  $\leq$  35 mg/L, Aniline  $\leq$  1.5 mg/L) set by the relevant local authority before it can be discharged to external wastewater treatment plants.

Wastewater treatment has always been our focus. The Group sets out a guiding theory that is focused on the reduction of wastewater discharge, emphasises pre-treatment, and recycling as well as the bio-treatment of wastewater, and improving all employees' skills. We spare no effort in harnessing our human, technological, and financial resources to ensure our wastewater discharge fulfils the required environmental standards.

All our production plants are equipped with an integrated wastewater treatment and sulphur recycling facility which effectively filters wastewater produced. Our wastewater treatment and recycling process is closely monitored by the relevant local governments to comply with regulatory standards.

Since 2013, the Group has implemented a "Clean Production" initiative. This programme requires team members to actively participate by leveraging technological innovation, adopting more advanced production processes and equipment, using clean raw materials, and enhancing management skills to produce products more effectively and efficiently while reducing wastewater discharge.

Due to an increase in production and the adoption of water-saving measures, the Group discharged a total of 783,104 (FY2023: 703,437) cubic meters of wastewater in FY2024. Unit wastewater discharge was 3.58 (FY2023: 3.33) cubic meters, and recycled wastewater was 1,336,537 (FY2023: 1,321,174) cubic meters.

所有生产过程中产生的废水都通过预处理回收使用，不能够回用的废水经过进一步的化学及生化处理，达到排放标准 (COD  $\leq$  500mg/L, 氨氮  $\leq$  35mg/L, 苯胺  $\leq$  1.5mg/L) 后排入政府污水处理厂。

公司始终将污水治理作为首要任务来抓，根据运行实际提出“抓减排、抓分别的预处理，加大中水回用，抓生化效果提高，抓环保人员整体素质提高”指导思想，不惜投入大量的人力、物力、财力，彻底实现废水的稳定达标排放。

我们每个生产基地都配备了综合废水处理和废气回收设施。在生产过程中，产生的废水可能会造成污染。废水处理厂用于处理废水，使其符合监管标准。污水处理和回收过程由相关的地方政府当局密切监测。

自2013以来，集团开始推行“清洁生产”计划。“清洁生产”项目需要团队成员发挥积极作用，通过技术创新，采用更先进的生产工艺和设备，使用清洁的原材料，提高管理技能，以更有效和高效的方式生产的产品，并同时减少废水排放。

由于产量的增加及采取节水措施，集团在2024年共排放废水783,104立方米(2023年:703,437立方米)，单位成品废水排放量为3.58立方米(2023年:3.33立方米)，回收废水1,336,537立方米(2023年:1,321,174立方米)。

1

### FY2024 Target 2024年目标

We aim to reduce discharge of wastewater per unit and increase amount of wastewater to be recycled.  
减少单位废水排放量，增加废水回收量。

2

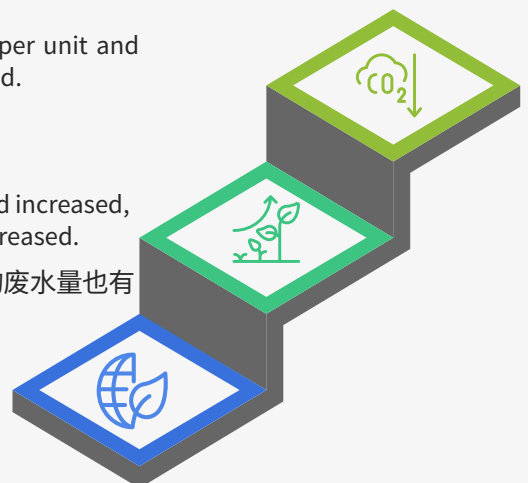
### FY2024 Performance 2024年完成情况

- Target partially achieved. Unit wastewater discharged increased, but the amount of wastewater recycled has also increased.
- 目标部分达成。单位产品的废水排放量减少，回收的废水量也有所增加。

3

### Short-, Medium-, and Long-Term Target 短期、中期和长期目标

We aim to reduce discharge of wastewater per unit and increase amount of wastewater to be recycled.  
减少单位废水排放量，增加废水回收量。



# ENVIRONMENTAL 环境



## Emission 排放

Hydrogen sulphide created during the production process is harmful to health and the environment. Our sulphur recycling facility has effectively extracted the sulphur from hydrogen sulphide for reuse in our production processes, such as in the production of MBT and insoluble sulphur. To effectively manage the hydrogen sulphide emission at our manufacturing facilities, we are the first company in China to invest more than RMB 30 million in a Super Claus furnace and CS<sub>2</sub> recovery facility. Our conversion recovery rate is consistently above 99.5%.

To further control exhaust gas and odour, we have implemented few more following notable initiatives in FY2024:

1. Monitor the operation and data of online exhaust monitoring equipment across all plants. Work with third-party maintenance companies to inspect the flue gas equipment at Shangshun, Guangshun, Yongshun, and Hengshun plants. Address non-compliance issues promptly and ensure 24/7 maintenance services to manage abnormalities.
2. Ensure pollution control facilities are fully compliant, monitoring the entire process from source collection to emissions. Focus on the RTO's operation, checking pollution control devices daily and addressing any issues quickly. Monitor online flue gas data, analyse abnormalities, and resolve issues. The Environmental Protection Department conducts inspections of odour control facilities, ensuring compliance and enforcing penalties where necessary to reduce inspection risks.
3. Focus on controlling unorganised odour and dust emissions, investigating leaks and dust dispersal. Use portable VOC detectors for monitoring and ensure strict assessments with corrective actions. Commission third-party companies for two rounds of leak detection and repairs at Shangshun headquarters, North Zone, and Hengshun plants to identify and fix VOC leaks.
4. Conduct periodic inspections of key downwind areas to reduce external feedback risks.
5. Apart from all the initiatives in FY2024, the Group has also made proactive improvements, including:

在生产过程中产生的有毒废气硫化氢，对人体健康和环境有害。我们的废气回收装置能够从硫化氢气体中回收出硫磺，此回收的硫磺在生产过程中可以循环使用，比如在我们生产噻唑类促进剂MBT和硫化剂不溶性硫磺时使用。在废气异味治理方面作为同行业第一家，率先投资3000余万元上马了超级克劳斯炉和CS<sub>2</sub>回收装置，对公司废气进行彻底治理，转化回收率达到99.5%以上。

为进一步治理废气和异味，2024年公司又实施了下列工程和措施：

1. 紧盯各厂区废气在线监测设备的运行和数据变化；结合第三方运维公司对尚舜、广舜、永舜、恒舜厂区烟气在线设备进行全面排查，对不符合标准的问题及时整改，要求运维公司24小时全天候服务，及时处理异常情况。
2. 狠抓治污设施的合规运行，抓从源头收集到装置运行再到达标排放的全过程控制，重点关注RTO装置的运行，每日核查治污装置的运行情况，发现问题及时督导、协调解决，时刻关注烟气在线数据，出现异常数据及时分析原因，协调消除隐患；组织环保科对各厂区废气异味治理设施开展专项检查，核查现场和运行记录的合规性，对发现问题严格落实考核，降低了外部检查的风险。
3. 狠抓无组织异味、粉尘的控制，严查跑冒滴漏、粉尘散排，利用便携式VOC检测仪对各区域监测检查，严格考核并督导整改，同时委托第三方检测公司对尚舜总部、北区以及恒舜厂区集中开展了两轮次的泄漏检测与修复工作，排查VOC泄漏点源、及时修复。
4. 不定期的对下风向重点区域进行巡查评估，降低外部反馈风险。
5. 通过积极改进解决过去的问题，包括：



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Emission  
排放 



- Completion of RTO installation at Yongshun plant.
- Installation of emergency activated carbon boxes to reduce the risk of both RTOs being offline.
- Collection of unorganised odours from the water treatment ozone unit and introducing a deodorisation tower.
- Collection of unorganised odours from the NS raw water tank and introducing an RTO for treatment.
- Sealing and collecting unorganised emission points at each workshop to reduce odour release.
- 完成永舜厂区的RTO装置的安装
- 安装应急活性炭箱,以降低两台RTO同时停机的风险。
- 收集水处理臭氧单元的无组织气味并引入除臭塔。
- 收集NS原水罐的无组织气味,并引入RTO进行处理。
- 封闭并收集各车间的无组织排放点,以减少气味释放。

Since 2008, we were accredited with GB/T24001-2004/ISO14001:2004 for our Environment Management System (“EMS”). We have continuously enhanced our system to be more environmentally friendly over the years. Further, in 2018, we have been accredited with EMS GB/T24001-2016/ISO14001:2015. In FY2024, Weifang Sunsine and Shandong Hengshun were certified for GB/T24001-2016/ISO14001:2015 Environmental Management System.

Toxic gas emissions are monitored in real-time by the local Environmental Department and government authority. In FY2024, toxic gas emissions met the local standard of Shandong Province’s “comprehensive emission standard of regional air pollutants” (DB37/2376-2019) (dust content  $\leq 10\text{mg}/\text{m}^3$ ,  $\text{SO}_2$  content  $\leq 50\text{mg}/\text{m}^3$ , nitrogen oxide content  $\leq 100\text{mg}/\text{m}^3$ ).

自2008年,我们获得了GB/T24001-2004/ISO14001:2004环境管理体系认证,且持续改进。在此基础上,2018年又获得了GB/T24001-2016/ISO14001:2015环境管理体系认证。2024年,潍坊尚舜和山东恒舜均通过了GB/T24001-2016/ISO14001:2015环境管理体系认证。

所有的废气排放口都安装了实时在线监控设备,此设备直接与当地政府环保监管部门连线。在2024年,大气污染物排放量符合山东省地方标准《区域性大气污染物综合排放标准》(DB37/2376—2019)(颗粒物含量 $\leq 10\text{mg}/\text{m}^3$ ,  $\text{SO}_2$ 含量 $\leq 50\text{mg}/\text{m}^3$ ,氮氧化物含量 $\leq 100\text{mg}/\text{m}^3$ )。

# ENVIRONMENTAL 环境



Emission  
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In FY2024, the recycled volume of sulphur is 18,038 tonnes (FY2023: 12,900 tonnes), and the recycling rate is as high as 99.5% (FY2023: 99.5%). The economic value of sulphur recycled amounted to RMB 21.01 million (FY2023: 15.03 million), recycled sulphur dioxide in FY2024 is 5,473 tonnes (FY2023: 3,509 tonnes), the economic value of sulphur dioxide recycled amounted to RMB 16.98 million (FY2023: 10.89 million).

The increase in the volume and economic value of sulphur and sulphur dioxide recycled is mainly due to the official launch of phase 1 of the solvent-based project, which resulted in the significant increase in production. As a result, this resulted in the increase recycling of sulphur and its carbon disulfide as compared to FY2023.

## Greenhouse gas (“GHG”) emissions

The Group remains steadfast in its commitment to reducing its carbon footprint. FY2024 marks the second consecutive year in which we have measured and disclosed our GHG emissions, demonstrating our continued progress in climate transparency. This year, we have further enhanced our disclosures by introducing GHG emissions intensity as an additional performance indicator. This year, the Group produced a total of 346,697 tonnes of Scope 1 GHG emissions (FY2023: 319,521 tonnes) and 125,182 tonnes of Scope 2 GHG emissions (FY2023: 126,877 tonnes), as part of our ongoing efforts to understand and manage our environmental impact.

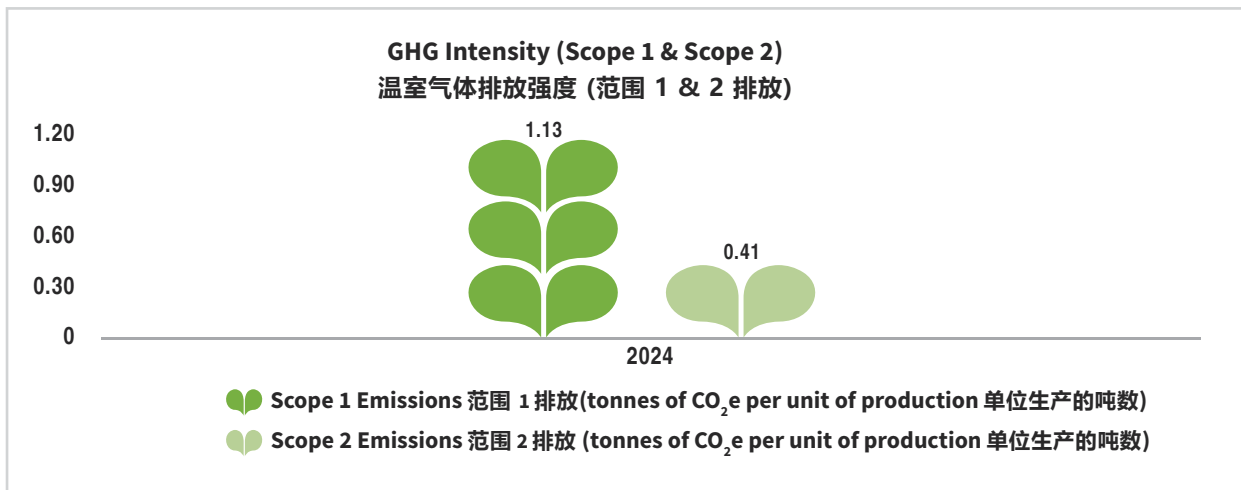
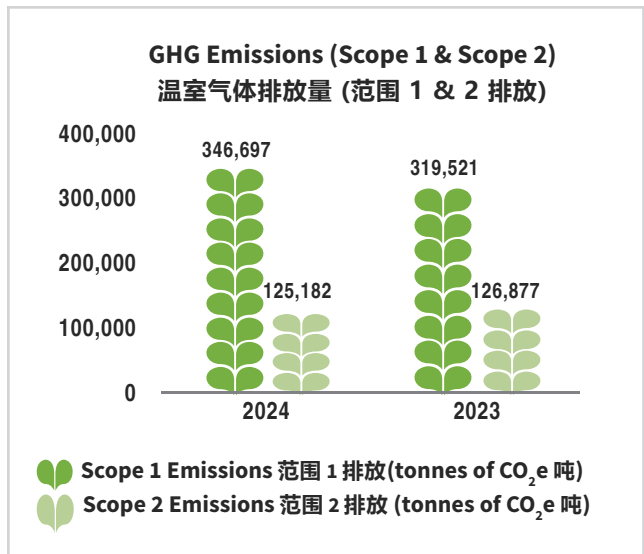
Scope 1 GHG emissions are derived from the direct emissions of several key sources in our operations. These include carbon emissions from the combustion of natural

2024年硫磺的循环使用量是18,038吨(2023年:12,900吨),循环率高达99.5%(2023年:99.5%)。回收硫磺经济效益达到人民币2,101万元(2023年:1,503万元)。回收二氧化硫5,473吨(2023年:3,509吨),经济效益1,698万元(2023年:1,089万元)。

硫磺和二氧化硫回收量及其经济价值的增加,主要是由于溶剂法MBT项目第一阶段的正式投产,导致MBT生产量显著增长。因此,与2023年相比,硫磺及其二氧化硫的回收量增加较多。

## 温室气体排放

集团坚定承诺减少碳足迹,并且会持续衡量和披露我们温室气体的排放。今年,我们进一步提升了披露水平,新增了温室气体排放强度作为补充绩效指标。集团共产生了346,697吨(2023财年:319,521吨)范围1温室气体排放和125,182吨(2023财年:126,877吨)范围2温室气体排放,这体现了我们在了解和管理环境影响方面持续的努力。



# ENVIRONMENTAL 环境

gas, diesel, and bituminous coal, which are integral to our production processes. Additionally, emissions from the incineration of hazardous waste and the use of methanol also contribute to our overall Scope 1 GHG emissions. The Group's scope 1 GHG emissions are derived from Natural gas, diesel, and coal are essential energy sources directly required in our production process.

Scope 2 GHG emissions, on the other hand, are associated with the purchased electricity and heating required to power the electrical and heating functions of our plants. These emissions are indirect but still a significant part of our overall environmental footprint. Additionally, the Group has generated and sold heating, which contributes to our emission profile, highlighting both our operational activities and our role in the wider community's energy consumption.

By tracking and reporting these emissions, we continue to enhance our transparency and take further steps to reduce our environmental impact across all areas of operation and as part of our continuous efforts, we have disclosed our medium- and long-term targets for our GHG emissions for the first time this year.

范围1温室气体排放主要来自于我们橡胶促进剂生产操作中使用的天然气、柴油、烟煤等的燃烧所产生的气体排放。范围1温室气体排放来源于天然气、柴油和煤,这些都是生产过程中必需的能源。

另一方面,范围2温室气体排放与我们购买的电力和蒸汽相关,这些电力和蒸汽用于为我们的工厂提供电力和热能。尽管这些排放是间接的,但它们仍然是我们总体环境足迹的一个重要组成部分。此外,集团还将蒸汽出售,突显了我们在运营活动和更广泛社区能源消费中的角色。

通过跟踪和报告这些排放数据,集团不断提升透明度,并进一步采取措施减少各业务领域的环境影响。作为持续努力的一部分,集团今年首次披露了温室气体排放的中长期目标。



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## Solid hazardous waste management

The Company adheres to the legal and regulatory requirements for proper disposal of solid hazardous waste. The Group classifies and properly disposes of solid waste generated from production and office operations. The Company has built a hazardous waste landfill and a hazardous waste incineration treatment equipment. Hazardous waste is disposed and handled internally within our capacity, while those requiring specialised treatment are handled by qualified third-party disposal agencies.

In FY2024, the Group generated a total of 15,851 tonnes (FY2023: 8,216.77 tonnes) hazardous waste, handled a total of 15,306 tonnes hazardous waste (FY2023: 8,346.91 tonnes), 97% (FY2023: 101.58%) of waste disposed in compliance with regulatory requirements. A total of 1,010 tonnes of non-hazardous waste (FY2023: 666.60 tonnes) were generated and have been 100% disposed of according to the government regulatory requirement without causing any impact to the environment. Total waste recycling was at 650 tonnes (FY2023: 615.15 tonnes).

In 2024, the generation and management of hazardous and non-hazardous waste by the Group significantly increased compared to 2023. This was primarily due to the rise in the output of finished products for sale and semi-finished products for internal use, which increased by 26,866 tonnes, representing a growth rate of 9.59%. Additionally, the implementation of stricter management measures contributed positively to this increase.

## 固危废管理

公司坚持合法合规处置固危废，将生产和办公生活产生的固体废弃物严格进行分类管理，分类存放，分类处置。公司建有危废刚性填埋场和危废焚烧处理装置，大大提高了危废处置能力，将能够自己处置的危废自己处置，自己处置不了的委托有资质的第三方处置机构进行处置。

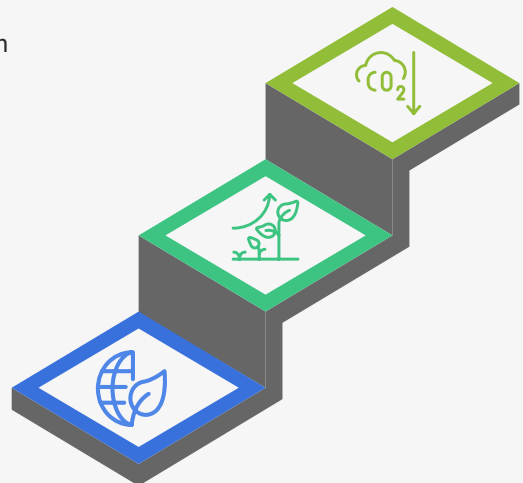
2024年，集团共产生危险废物15,851吨（2023年：8,216.77吨），处置危险废物15,306吨（2023年：8,346.91吨），合规处置率97%（2023年：101.58%）。共产生非危险废物1,010吨（2023年：666.60吨），已根据政府相关要求，全部送往指定地点100%合规处置，未对周围环境产生不利影响。废弃物回收总量650吨（2023年：615.15吨）。

2024年集团危险废物和非危险废物的产生及管理较2023年显著增加，这主要归因于2024年包括供出售的成品产量、自用的半成品产量比2023年增加了26,866吨，增幅为9.59%，以及更严格的管理措施的实施。

**1** | **FY2024 Target 2024年目标**  
Our goal is to keep the toxic gas emission within regulatory limits.  
毒气排放量在政府允许范围内。

**2** | **FY2024 Performance 2024年完成情况**  
✔ Target achieved.  
No instance exceeding government's allowed range.  
✔ 达到目标。未出现超出政府允许范围情况。

**3** | **Short-, Medium-, and Long-Term Target 短期、中期和长期目标**  
The Group strives to maintain its emission intensity over the short- to long-term.  
集团致力于在短期至长期内保持其排放强度。



We strive to be transparent about our actions, supporting our workers and communities to make the chemical industry better as a whole. To reduce the negative human rights impacts on our operations, we ensure that our operations comply with the environmental and socio-economic rules applicable to us. We support our workers by advocating for their rights with fair labour practices.

## Board Diversity

The Board recognises that board diversity is an essential element contributing to a well-functioning and effective board, as well as the sustainable development of the Group. As such, the Board has in place a Board Diversity Policy, the objectives of which are to promote and enhance the decision-making process of the Board through the perspectives derived from the professional expertise, business experience, industry discipline, skills, knowledge, gender, age, educational background, ethnicity and culture, length of service, and other diverse qualities of the Board members. When reviewing and assessing the composition of the Board and making recommendations to the Board for the appointment of its members, the Nominating Committee will consider the various aspects of board diversity and set practical timelines to implement the policy. It will also report to the Board on an annual basis on the progress made in promoting and achieving its board diversity objectives. The Board will, on a continuing basis, review the relevant aspects of diversity of its members to ensure they serve the needs and plans of the Company and the Group. There is a total of 10 (FY2023: 9) Board members, including 2 (FY2023: 1) female Board members, representing a percentage of 20% (FY2023: 11%).

## Employment, Diversity and Equal Opportunity

雇佣，多元化和平等机会



集团致力于行动透明，并大力支持公司员工及当地社区，以便使得化工行业整体更加美好。

为了降低我们的经营活动对人权造成的不良影响，集团确保其经营活动符合适用的环境及社会经济条例。集团也大力支持员工们的公平劳动实践的权力。

## 董事会多元化

董事会多样性是构成健全有效的董事会的一个重要元素，同时也是集团可持续发展的一个重要元素。因此，董事会制定了董事会多样性制度，此制度的目标就是为了通过集结不同的拥有各种专业、商业经验、行业标准、技能、知识、性别、年龄、教育背景、种族文化、服务时长及其他多样化特质的董事会成员之间的看法，来提高和加强董事会的决策流程。当审阅及评估董事会构成、提出董事会成员任命提案时提名委员会会综合考量董事会多样性的各项方面，制定可行的制度实施时间表。每年，提名委员会也会向董事会汇报为了达到董事会多样性的目标所做的阶段性成果。董事会也会持续性的审阅其成员的多样性，以确保各位董事满足公司及集团发展的计划与要求。公司董事会成员10名（2023年：9名），包含2名（2023年：1名）女性董事，占比20%（2023年：11%）。

# SOCIAL

## 社会



### Employment, Diversity and Equal Opportunity 雇佣，多元化和平等机会

China Sunsine's recruitment of staff is based solely on merit, without discrimination of race, age, gender, religion or ethnicity. In FY2024, the ethnic minority workforce accounts for 0.71% (FY2023: 0.71%) of the total employee population. However, the Group will hope to introduce more diversity. 100% (FY2023: 100%) of employees attend training on topics related to anti-discrimination. There were no incidents (FY2023: nil) of discrimination during the Reporting Period. We strictly prohibit the hiring of underage staff at any of our offices and production facilities.

We give priority to local talents in China for our recruitment. 100% (FY2023: 100%) of our management employees are recruited in China. We are committed to providing competitive remuneration and benefits to our employees. The Company provides retirement funds, medical fees, work-related injury fees, maternity benefits, unemployment insurance, and housing provident funds for 100% (FY2023: 100%) of the employees. The employees' salaries are consistently above the market rate in the provinces we operate in.

We are also committed to safeguarding our employees' health and safety against any potential workplace hazards.

Even though we operate in a male-dominated industry, 16% (FY2023: 16%) of our staff are female. We actively encourage women to join us and provide additional benefits such as annual medical check-ups and gifts to our female staff during the Chinese Women's Festival.

There are 125 (FY2023: 124) management employees (exclusive of board members) and 16 (2023: 16) of which are female senior management employees, with a percentage of 12% (FY2023: 12%). There are 2 ethnic minority senior management employees (FY2023: 2), with a percentage of 1.6% (FY2023: 1.6%).

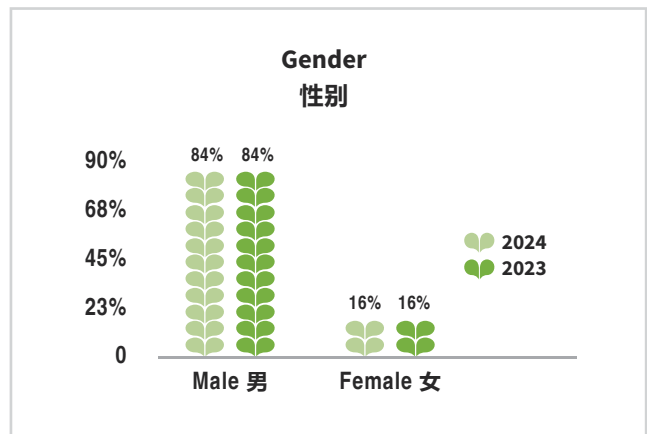
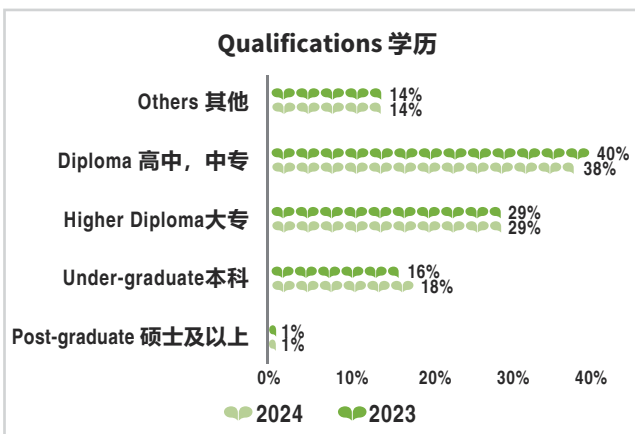
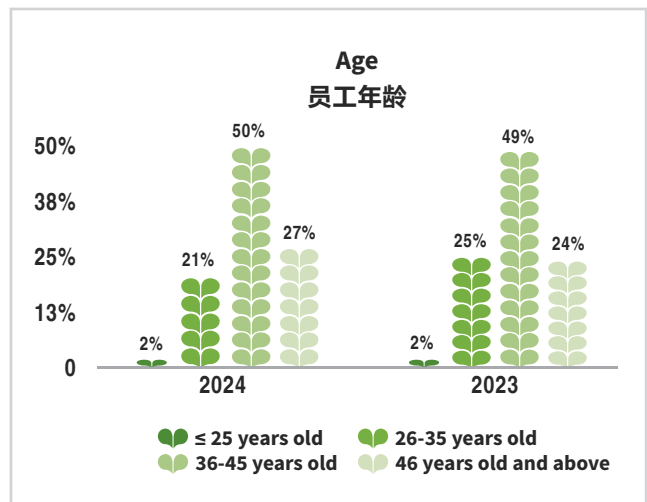
中国尚舜承诺无种族，性别，宗教和少数名族歧视雇佣宗旨。在2024年，少数族裔员工占总员工人数的0.71%（2023年：0.71%）。然而，集团希望未来能够引入更多多样性。公司员工接受反歧视议题培训的比例达到100%（2023年：100%）。在报告期限内无歧视案例（2023年：无歧视案例）。我们杜绝办公室或是工厂的未成年雇佣。

我们倾向于聘请中国当地人员。在中国当地雇佣的高管比例为100%（2023年：100%）。我们承诺对员工提供具有竞争性的工资和福利。为员工缴纳养老、医疗、工伤、生育和失业保险及住房公积金，享受这些社会福利的员工达到100%（2023年：100%）。公司与工会签订了工资集体协议。员工工资在当地始终保持较高的水平。

我们也承诺在危险工作环境下会保护员工健康与安全。

尽管化工行业是男性主导的行业，中国尚舜集团的女性职员达到总员工人数16%（2023年：16%）。我们积极鼓励女性加入，同时提高福利，例如女性特别年度体检（在年检的基础上）以及在妇女节时赠发礼品。

公司中高层管理人员（不包含董事会）共125名（2023年：124名），其中，女性管理人员有16名（2023年：16名），占12%（2023年：12%），少数民族管理人员有2名（2023年：2名），占比1.6%（2023年：1.6%）。



## Employment, Diversity and Equal Opportunity 雇佣, 多元化和平等机会

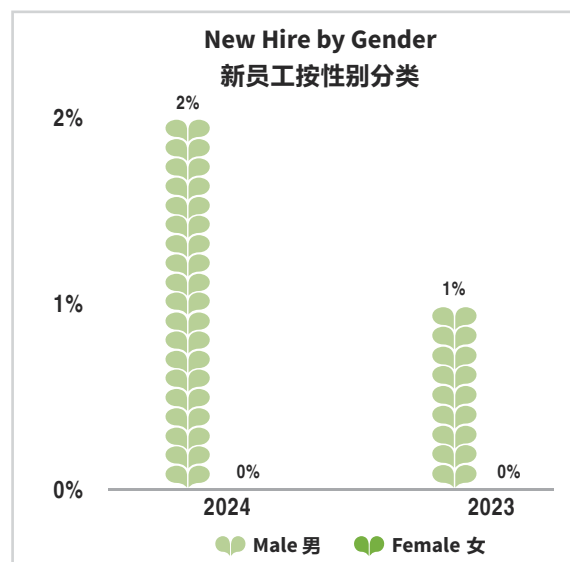
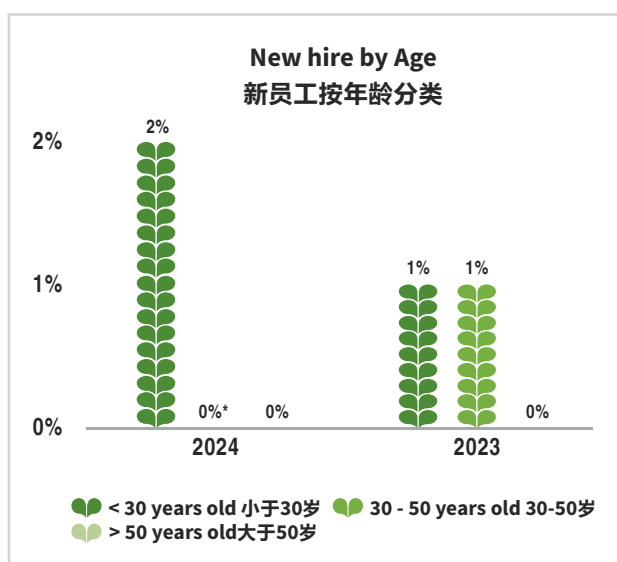
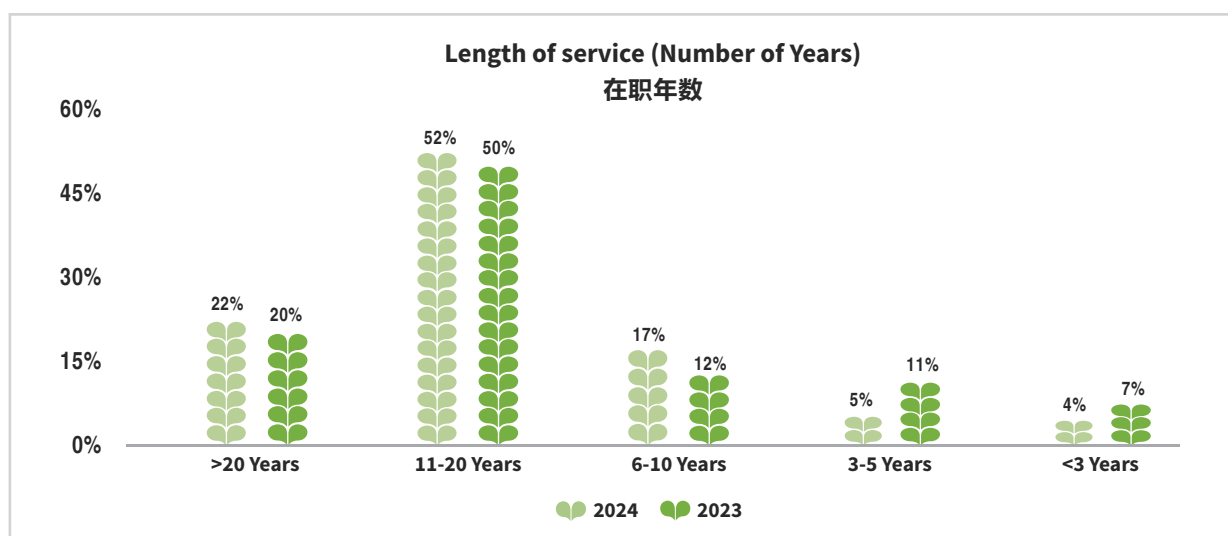


Our foundation for developing a sustainable business is to build an inclusive culture. The Group organises various activities such as sports days, speech competitions, New Year's Gala Dinner, and other activities regularly to strengthen camaraderie and a sense of belonging amongst employees to build and foster a strong team ethos. We embrace diversity, while simultaneously expecting employees to be aligned with the Group's vision and strategic initiatives. Whilst we encourage our employees to take on challenges and improve themselves, we also require them to treat others equally, honestly and with respect.

加强文化建设是集团可持续发展的坚强基石。集团经常都举办职工趣味运动会、庆“三八”演讲比赛、辞旧迎新元旦联欢晚会等活动,加强员工归属感,培养员工集体意识、团队合作意识。集团要求员工要树立个人服从集体、局部服从整体的观念,倡导集体利益为重的价值观念;要求员工在竞争中挑战自我,在合作中欣赏他人,大力崇尚爱岗、敬业、厚德、包容的人文精神和道德风尚。

2024年,员工流动率少于总员工人数的1.88%(2023年:5.15%)。我们也没有雇佣兼职人员。74%(2023年:70%)的员工的在职年数已超过10年。

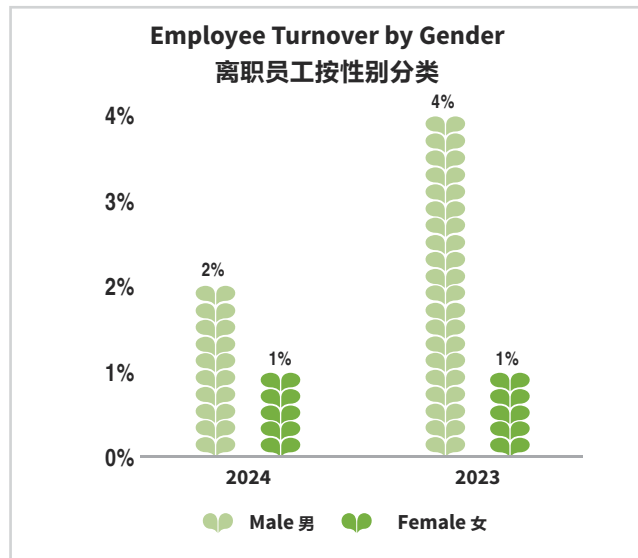
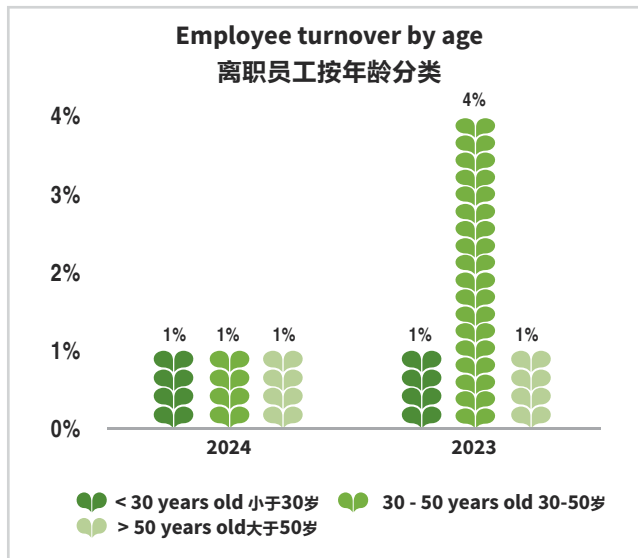
Staff turnover is low with 1.88% (2023: 5.15%) of the total headcount per annum in 2024. We do not hire part-time staff. 74% (2023: 70%) of our staff has been working with our Group for more than 10 years.



\*Figure is less than 1%.

# SOCIAL 社会

## Employment, Diversity and Equal Opportunity 雇佣, 多元化和平等机会



**1** **FY2024 Target 2024年目标**  
 To prevent discrimination in employment based on race, gender, religion or against ethnic minorities.  
 不发生种族、性别、宗教和少数民族歧视雇佣现象。  
 No hiring of underage staff.  
 招聘童工数量:0人。  
 Zero cases of compulsory labour and mandatory overtime.  
 发生强迫劳动和强迫加班事故:0起。  
 Zero cases of harassment complaints.  
 发生骚扰投诉事故:0起。

**2** **FY2024 Performance 2024年完成情况**  
 Target achieved.  
 No discrimination based on race, gender, religion, or against employment of ethnic minorities; No hiring of underage staff; Zero cases of compulsory labour and mandatory overtime reported; Zero cases of harassment complaints recorded.  
 达到目标。未发生种族、性别、宗教和少数民族歧视雇佣;未招聘童工;0起强迫劳动和强迫加班事故;0起骚扰投诉事故。未出现超出政府允许范围情况。

**3** **Short-, Medium-, and Long-Term Target  
短期, 中期和长期目标**  
 To prevent discrimination in employment based on race, gender, religion or against ethnic minorities.  
 不发生种族、性别、宗教和少数民族歧视雇佣现象。  
 No hiring of underage staff.  
 招聘童工数量:0人。  
 Zero cases of compulsory labour and mandatory overtime.  
 发生强迫劳动和强迫加班事故:0起。  
 Zero cases of harassment complaints.  
 发生骚扰投诉事故:0起。







We prioritise employee training by developing a long-term talent growth and promotion framework, enabling employees to maximise their potential and align their careers with the Company's progress. This fosters mutual growth for both employees and the organisation.

In 2024, we established an Employee Education Division to enhance training and corporate culture development. We also revised the "Management qualification" and improved the three-tier training system at company, department, and team levels.

In 2024, the training coverage was 100% (FY2023: 100%). The total training hours provided were 53,582 hours in FY2024 (FY2023: 21,159 hours), while the total training hours provided at the company level were 26,241 hours (FY2023: 5,690 hours). During the year, the average training hour per employee is 25.2 hours as compared to 10 hours in FY2023.

The increase in training hours can be attributed to the establishment of a dedicated employee education management department, which has strengthened employee training and cultural development.

我们注重员工培训,建立和完善长效的人员培养和晋升机制,以使得员工的潜能得到提高,使每一位员工都能人尽其才,支持员工职业生涯的发展,将员工个人发展和公司发展有机结合,促进员工和企业的共同成长。

2024年,公司新成立了职工教育科,以进一步强化职工教育培训和企业文化建设,修定了《员工培训管理制度》,完善了公司级、部门级和班组级三级培训管理体系。

2024年培训覆盖率100%(2023年:100%);总培训时间为53,582小时(2023年:21,159小时),其中,公司级培训时间为26,241小时(2023年:5,690小时),年度员工平均培训时长25.2小时,较2023财年的10小时显著提升。

培训时间的增加归因于公司成立了专门的职工教育管理部门,强化了员工的培训教育和文化建设。

# SOCIAL

## 社会



### Training And Education 培训与教育

The following is a list of our training programme for FY2024:

- New staff orientation (workers and management)
- Professionalism
- Organisational culture
- Management qualification
- Innovation
- Mindset change
- Occupational health
- Safety management
- Quality management
- Environmental case study
- Production management
- Equipment management
- Financial management
- Internal transfer training
- Information and cybersecurity
- Risk prevention and control
- Labour and human rights
- Sustainable procurement
- Business ethics
- Special topic on anti-discrimination

以下是2024年员工培训内容：

- 新员工入厂和入职管理人员培训
- 职业化素养
- 企业文化
- 管理素质
- 创新专案
- 转变观念
- 职业健康
- 安全管理
- 品质管理
- 环保专案
- 生产管理
- 设备管理
- 财务管理
- 转岗培训
- 信息与网络安全
- 风险防控
- 劳动与人权
- 可持续采购
- 商业道德
- 反歧视专题



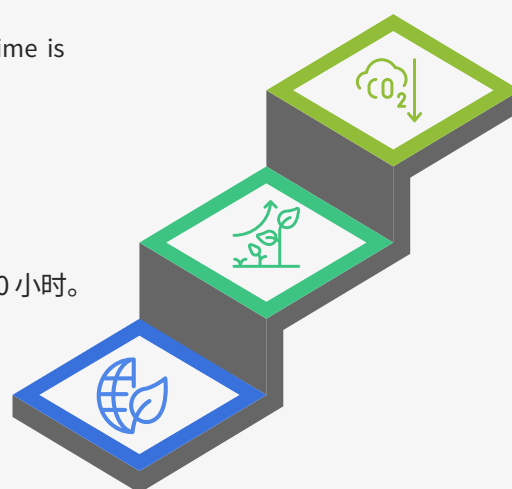
	FY2024		FY2023	
	Management 管理层	Non-Management 非管理层	Management 管理层	Non-Management 非管理层
Number of Employees 员工人数	134	1,991	133	1,981
Total Training Hours 总培训时数	3,474	50,109	3,132	18,027
Average Training Hours per Employee 每位员工的平均培训时间	26	25	23	9

	FY2024		FY2023	
	Male 男性	Female 女性	Male 男性	Female 女性
Number of Employees 员工人数	1,792	333	1,781	335
Total Training Hours 总培训时数	45,185	8,397	17,810	3,349
Average Training Hours per Employee 每位员工的平均培训时间	25	25	10	10

**1** | **FY2024 Target 2024年目标**  
FY2024 planned company level training time is not less than 3,600 hours.  
2024年计划培训时间不少于3,600小时。

**2** | **FY2024 Performance 2024年完成情况**  
 Target achieved. In FY2024, the Group achieved a total training hour of more than 3,600.  
 达到目标。在2024年,集团总培训时长超过3,600小时。

**3** | **Short-, Medium-, and Long-Term Target 短期、中期和长期目标**  
To achieve an average training hours of not less than 25 hours per employee.  
计划每位员工培训时间不少于25小时。



# SOCIAL

## 社会



### Occupational Health and Safety 健康和安

Employee health and safety are of utmost importance. The production process involves dangerous, toxic, or flammable raw materials. Therefore, we have implemented comprehensive safety and environmentally friendly measures regulated by the relevant government authorities which are subjected to periodic and random checks by the authorities.

We have increased safety-related expenditures to comply with regulations, and this has improved our ability to manage occupational risks posed to our employees. Constant improvements are being made to the production environment. We have upgraded our facilities related to the storage, transportation, and processing of hazardous chemicals. We also provide our employees with protective equipment, safety training, and supervision in accordance with all regulatory requirements.

Safety measures and equipment are continuously deployed to ensure the safety of our employees, especially during the production process. We provide safety training programmes and seminars regularly, so that our employees are updated with the latest safety measures and procedures are enhanced accordingly.

All new employees are required to undergo mandatory safety training and drills to familiarise themselves with the operation of the machinery and equipment as well as the safety precautions and procedures during the production process.

We ensure that all our staff follow the necessary and appropriate precautions when handling harmful or toxic materials with a rigorous monitoring and enforcement process.

When it comes to education and training, strict compliance with the “production and operation unit safety training requirements” is enforced. Key position holders, from specialised personnel through to security and management staff, must attend security training, pass the assessment tests, and obtain the requisite certifications established by the authorities.

由于我们的产品性质,我们处理有害的、有毒的和易燃的原料。为此,我们制定了全面的安全和环保措施此类措施由有关政府部门监管,并须经当局定期及抽查。

公司依法提取安全生产费用,加大安全投入,对各种危化品使用、储存、输送设备进行改造升级,优化了硬件安全设施采用安全可靠的新技术、新材料和新装备,提高工艺技术和自动控制水平,提高企业控制安全风险的能力,不断改进安全生产条件。公司依法为从业人员提供劳动防护用品,教育、监督其正确佩戴和使用。

我们已部署安全设备和设施,以确保安全生产和保护我们的员工的安全。我们经常对他们进行安全培训,在生产过程中不断学习和更新。

我们为新员工提供相关的安全培训和演练,确保他们熟悉生产机械设备的操作,以及生产过程中的安全预防措施和程序。

我们要求我们的员工在处理有毒有害材料时采取适当的预防措施。

在教育培训方面,公司严格落实《生产经营单位安全培训规定》,对所有重点岗位人员、特种作业人员、安全管理人员等进行了由政府部门组织的安全培训、考核,取得了相应的资格证书。





We have also set up a training centre and improved our training facilities. During the annual safety month, all employees are required to study the materials issued by the Ministry of Emergency Management. At least once a quarter, our Safety Production Committee conducts research, summarises, communicates, and deploys work safety activities. Safety briefings will be conducted in production safety workshops before and after work on a regular basis within the individual departments. This is followed by weekly meetings arranged by the Safety Department for the Management to review the previous week's production safety status, and to identify focus areas for the following week.

We have established a comprehensive emergency response plan and registered this with the local Emergency Management Bureau. All workshops and departments have appointed emergency response units which are equipped with all necessary equipment. We conduct annual safety drills to improve employees' operational readiness to manage any emergencies or safety incidents. General Manager personally heads the safety function. He is supported by the department managers and the workshop supervisors. This arrangement ensures that all leaders are aware of their responsibilities over management and safety. We have also appointed a Safety Director to set up Production and Safety Committee and Department.

We have an Annual Internal Safety Inspection Plan. The local authority conducts inspections once or twice a month. We continuously carry out safety management activities, such as the management of liquid chlorine, liquid ammonia and other hazardous chemical materials. These also include frequent maintenance inspections and regular monitoring of specialised operational processes. Our Production Safety Department conducts a review every Friday. Random safety inspections are conducted in the workshop every day. Each workshop also carries out a review in accordance with the Production Line Safety Checklist. Self-assessment is performed to identify any hidden safety issues to improve safety risk management. In addition, we engage two production safety experts from Heze City to review our production safety management system annually. Their coverage includes safety policies, site management, production technology, equipment, and any other related aspects.

公司专门投资建设了“培训中心”，完善培训设施，对新进厂职工认真开展三级安全培训教育；对全体职工每年开展安全再培训；在每年安全月期间组织全体职工观看国家应急管理部编制的事故警示教育宣传片，开展事故案例警示教育，公司安全生产委员会每季度至少召开一次专题安全会议，贯彻传达上级安全工作要求，总结、研究、部署当前安全生产工作；安全科每周组织各车间、工段安全管理人员召开安全例会，总结上周安全生产情况，布置下周安全生产注意事项，各车间每班召开班前、班后安全教育会，落实安全生产工作。

公司建立健全了生产安全事故应急救援预案，并已在市应急管理局备案。各车间、工段分别建立健全了应急救援组织和队伍，配备了完善的应急救援器材和设备，并按规定每年进行演练，提高了员工应对突发事件和处置安全事故的能力，打造出一支能够随时拉得出、用得上、打得赢的职工救援队伍。

公司健全了以总经理为安全生产第一责任人，各分管经理为分管责任人，各车间主任为具体责任人的安全生产管理网络，实行主要负责人负总责和领导班子成员“一岗双责”的安全生产领导责任制，设置了安全总监，成立了安全生产管理委员会，并设有专职的安全管理部门---安全科。

我们也制定了年度内部安全检查计划。当地政府也会每月进行一次或两次检查。公司持续开展安全生产隐患排查治理活动，认真搞好液氯、液氨等危险化学品安全管理，并加大检修、开停车等特殊作业环节安全监控力度。安全科每周五组织开展以查思想、查领导、查纪律、查制度、查隐患为中心内容的公司级安全检查；安全科人员每天进行走动式安全管理，深入生产现场开展日常安全巡查，各车间按照生产线安全检查表组织人员每周定期开展车间级安全隐患自查；各车间还深入开展“查身边隐患、保职工安全、促企业发展”群众性隐患排查活动，整改各种安全隐患，不断提高风险管控能力。另外，公司认真落实专家查隐患工作，每年聘请两名菏泽市安全生产专家，对企业从制度建设、现场管理、生产工艺设备设施等方面进行了“专家查隐患”工作，有力的促进了隐患排查治理的质量。

# SOCIAL

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### Occupational Health and Safety 健康和安

The Company also strengthened the management of operations such as fire, operating in confined space, working at high-altitude, and inspection and maintenance. We also ensure the safe operation of hazardous chemical loading and unloading operations in all workshops.

We are actively promoting the design and diagnosis of production facilities in our factory area, to ensure that safe distance and equipment layout of the production facilities are standardised and meet the standard requirements.

In FY2024, we actively worked on the local Emergency Management Bureau's request and successfully completed a comprehensive emergency response drill exercise for hazardous chemicals.

In FY2024, the Company further enhanced its system of hierarchical control, troubleshooting and governance over production risks and safety oversight, and developed a holistic multi-discipline set of safe production management policies and procedures. Specifically, the following policies and procedures were implemented and strictly enforced:

- Management Policy for Mobile Phone Usage in the Production Area
- Prevention and Safety Management Policy for Personnel Gathering in High-risk Site
- Safety Management Policy for Equipment and Pipeline Opening Operation
- Management Policy for Fire Fighting Facilities and Equipment (revised and updated)

公司加强动火、受限空间、高处作业等特殊作业及检维修作业及危险化学品装卸作业的管理,有效确保了各车间工段检维修作业及危险化学品装卸作业环节的安全。

积极推进厂区各生产装置设计诊断工作,进一步使各生产装置的安全间距、设备布置更加规范、符合标准要求。

2024年,积极配合县应急管理局要求,完成了单县危化品综合应急预案演练工作。

2024年,公司进一步深化安全生产风险分级管控和隐患排查治理双重预防机制的建设,进一步建立健全各项安全生产管理规章制度并严格执行:

- 制定了《事件管理制度》《异常工况处置管理制度》,对《安全事故调查处理制度》
- 《设备检修和改造施工安全管理制度》
- 《安全教育培训管理制度》《危险化学品仓库、罐区安全管理制度》
- 《劳动防护用品管理制度》《动火作业安全管理制度》《受限空间作业安全管理制度》进行了修订完善





The Company focuses on strengthening its assessment and elimination of safe production risk and it is committed to driving the safe production message across the Shandong province, starting with encouraging and motivating self-assessment and improvement behaviours internally with the Company's employees through regular and professional reviews and reward systems.

As part of our ongoing commitment to achieving zero workplace accidents and enhancing the safety of our employees, we have introduced a dedicated feedback channel - Runba Cloud Platform. This platform can perform automatic personnel positioning and intelligent video analysis, also enables employees to report any work-related hazards or unsafe conditions they encounter. By prioritising employee safety, we will promptly assess reported hazards, focusing on the specific areas or departments concerned. Our aim is to foster a proactive safety culture where potential risks are swiftly addressed, ensuring a safe and healthy working environment for everyone.

加强各种安全检查,消除各种安全隐患。认真贯彻落实山东省安全生产隐患大排查大治理活动,积极开展内部安全生产隐患自查自纠活动,加大安全科专业检查、日常检查考核力度,建立隐患排查奖励制度,进一步激励一线员工积极参与本岗位、本车间的安全隐患排查活动,各项安全隐患进一步减少。

作为我们持续承诺实现零工伤事故和增强员工安全的一部分,我们推出了专门的反馈渠道平台 - 润吧云平台。该平台能够实现人员自动定位,并使用视频监控进行智能分析,使员工能够报告他们遇到的任何与工作相关的危险或不安全的情况。通过优先考虑员工安全,我们将迅速评估报告的危险,重点关注相关的特定区域或部门。我们的目标是培养一种积极主动的安全文化,迅速解决潜在风险,确保每个人都能在安全和健康的工作环境中工作。

# SOCIAL

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### Occupational Health and Safety 健康和安

The feedback channel, which employees use to report hazards or unsafe conditions, is managed solely by their Head of Department or Production Manager. Only those tasked with this responsibility have access, ensuring the confidentiality and security of the process. This feedback mechanism is a crucial part of our commitment to employee safety, as it enables swift identification and resolution of potential risks in the work environment. Employees are encouraged to voice their concerns without fear, as those who submit feedback are fully protected from any form of reprisal. By fostering an open and safe communication system, we are better equipped to maintain a secure and healthy workplace for all.

Since 2008, Shandong Sunline obtained the occupational health and safety management system certification and has continuously strengthened the production safety

员工用于报告危险或不安全情况的反馈渠道由各部门负责人或生产经理单独管理。只有被赋予此责任的人才能访问该渠道，确保流程的机密性和安全性。该反馈机制是我们对员工安全承诺的重要组成部分，因为它能够快速识别和解决工作环境中的潜在风险。我们鼓励员工无畏地表达他们的关切，因为提交反馈的员工将受到完全保护，免受任何形式的报复。通过营造开放和安全的沟通系统，我们更有能力为所有人维护一个安全健康的工作场所。







system to be more advanced, practical, and effective. In FY2023, Weifang Sunsine and Shandong Hengshun New Material also obtained the occupational health and safety management system certification which complies with the GB/T45001-2020/ISO45001:2018 standard. The operational sites covered by the certified occupational health and safety management system encompass 92.30% of employees (2023: 92.30%).

自2008年起,山东尚舜通过了职业健康安全管理体系认证,并且持续改进,确保体系的科学性、适宜性、有效性。2023年,潍坊尚舜和山东恒舜新材料也通过了职业健康安全管理体系认证,符合GB/T45001-2020/ISO45001:2018标准。通过职业健康安全管理体系认证的营运场所涵盖了92.30%的员工(2023年:92.30%)。

2024年发生的重大安全事故0起(2023年:0起),职业病发生率为0(2023年:0)及因工负伤率低于0.5%(2023:低于0.5%)

We are pleased to share that no (FY2023: nil) major safety-related incident, no (FY2023: nil) work-related ill health case took place and work-related injury rate recorded at less than 0.5% (FY2023:  $\leq 0.5\%$ ) in FY2024.

1

### FY2024 Target 2024年目标

- No major safety-related incident.  
不发生重大安全事故。
- No work-related ill health case.  
全年职业病发生率为0。
- Work-related injury rates  $\leq 0.5\%$ .  
全年因工负伤率  $\leq 0.5\%$ 。

2

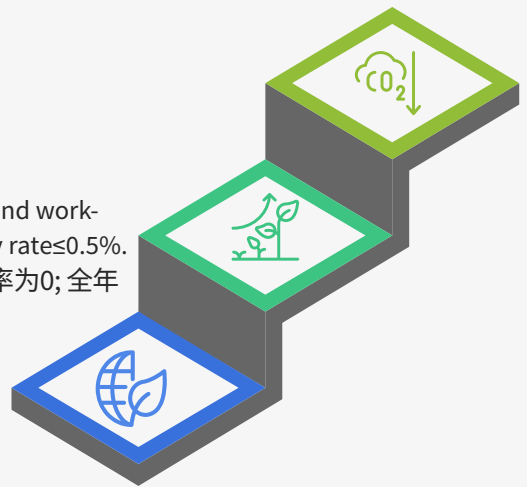
### FY2024 Performance 2024年完成情况

- ✔ Target achieved. No major safety-related incident and work-related ill health case recorded. Work-related injury rates  $\leq 0.5\%$ .
- ✔ 达到目标。未发生重大安全事故;全年职业病发生率为0;全年因工负伤率  $\leq 0.5\%$ 。

3

### Short-, Medium-, and Long-Term Target 短期、中期和长期目标

- No major safety-related incident.  
不发生重大安全事故。
- No work-related ill health case.  
全年职业病发生率为0。
- Work-related injury rate  $\leq 0.5\%$ .  
全年因工负伤率  $\leq 0.5\%$ 。



# SOCIAL

## 社会



### Chemical Management 化学品管理

We have strengthened our on-site chemical management, especially in high-risk areas such as the transfer of materials, to minimise any unnecessary exposure to hazardous chemicals. Our approval process for chemical products, in particular, the screening of highly hazardous chemicals has become more stringent. The management of high-risk chemical products will be further strengthened in the future, especially in high-risk areas, such as raw material conversion.

We have enhanced the safe storage of hazardous chemicals through the installation of a liquid level alarm system, emergency cut-off for the automatic chain, combustible and poisonous gas leakage alarm system, and provision of air respirator and chemical protective clothing. To enhance safety, the production team and chemical handling units are required to comply strictly with the established operating procedures through every step of the production, transportation, and storage of hazardous materials. Staff are also required to be familiar with emergency response plans. Chemical handling units are required to comply strictly with the established operating procedures through every step of the production, transportation, and storage of hazardous materials. Staff are also required to be familiar with emergency response plans.

我们加强了现场化工产品管理,减小对健康影响的可能性,化工产品审核批准的流程更加严格,对高风险的化学产品需要安全筛选,并且进行替代评估。任何不足需要得到相关的审核批准。对高风险的化学产品管理会在将来进一步加强特别是在高风险区域,如在原材料转换时。

公司加强各危险化学品罐区安全管理,增设高低液位报警紧急切断自动连锁、可燃、有毒有害气体泄漏报警、空气呼吸器、防化服等安全设备设施及应急器材。严格危险化学品卸车作业过程管理,严格按照卸车作业规程操作,加强监督检查,确保危险化学品卸车环节安全。危化品生产和使用部门进一步完善相应的工艺操作和安全操作规程,并严格要求生产和使用危化品的操作人员,必须严格遵守工艺操作规程、安全操作规程,熟悉物品性能和应急处理方法,确保各车间危险化学品的生产、使用安全。





We always adhere to our policy of “scientific management of quality assurance to win customers”. We focus on customers’ needs, enhance our employees’ quality awareness, and strengthen training quality. We implement a robust quality control management system, improve quality inspections, eliminate quality issues, and eliminate contamination by foreign particles. We ensure product quality and consistency in our production line and process changes, maintaining packaging, customer service, and on-time delivery. We are committed to making China SunSine the world’s most famous brand in our industry.

We place a great emphasis on adherence to stringent quality controls at all stages of our production process.

These quality control measures help to ensure that our products meet the high standards expected by our customers, ultimately strengthening customer satisfaction. Our production facilities also provide a safe working environment for all employees. Our internal quality control measures, from sourcing and procurement of raw materials to the delivery of our finished products, closely adhere to ISO requirements.

Our long-term goals for product quality include a commitment to product variety and quality improvement, providing excellent service standards to meet the needs of both domestic and foreign customers, and achieving a 100% customer satisfaction rate.

长期以来,我们始终坚持“以科学管理保质量,以可靠质量赢顾客,以顾客满足求发展”的质量方针,牢固树立以顾客为关注焦点、千方百计满足客户的各种需求,增强全员质量意识,加强质量教育,强力推行全面质量管理体系,加强各种质量检查,消除各种质量隐患,彻底杜绝各种异物混入,随时保持生产线、工艺变更的联系,确保产品内外在质量稳定提高,高度重视包装和服务的改进,按期交货,致力于把尚舜品牌打造成助剂行业的世界名牌。

我们十分注重产品质量控制。我们在各个生产过程都建立了严格的质量管理体系。

质量管理体系也确保我们的产品达到客户要求的相关标准,同时增强了顾客满意。我们的生产设施也为员工提供了安全的生产环境。我们的内部质量控制措施,从原材料的采购到产成品的交货,严格遵循ISO质量管理体系要求。

我们在质量方面的长期目标:致力于品种、规格齐全,质量和服务更好,来满足国内外顾客的各种需求,致力于顾客满意率100%。

# SOCIAL

## 社会

### Product Quality and Security 产品质量与安全

Our quality assurance division is headed by our Quality Assurance Director, under the supervision of our Executive Director and supported by a team of quality assurance personnel. They are responsible for overall quality control at every stage of our production process and work closely with the heads of other divisions to ensure that our production process is in accordance with our quality control guidelines.

Our four production factories of rubber chemical which include Shandong Sunsine, Weifang Sunsine, Shandong Sheng Tao and Shandong Hengshun have obtained GB/T19001-2016/ISO9001:2015 Quality Management System certification.

我们的质量保证团队由质量总监领导,受总经理监督,由专门的质量控制人员构成。他们对生产的每个环节负责,同时与各部门的领导紧密沟通合作,确保我们的生产过程符合质量控制要求。

山东尚舜、潍坊尚舜、山东盛陶、山东恒舜四个橡胶助剂生产厂区的质量管理体系均通过了GB/T19001-2016/ISO9001:2015质量管理体系认证,并持续保持科学有效运行。

1

#### FY2024 Target 2024年目标

1. Eliminate major quality incidents.  
杜绝质量责任大事故。
2. In the normal state of supply, the internal and external qualities do not meet the customer's requirements, resulting in general customer bad feedback not exceeding 13 cases throughout the year.  
正常供货状态下因内外在质量不符合客户要求,造成一般客户不良反馈全年不超过13起。
3. Gradually reduce the number of customer bad feedback received each year.  
逐步逐年减少一般不良反馈次数。

2

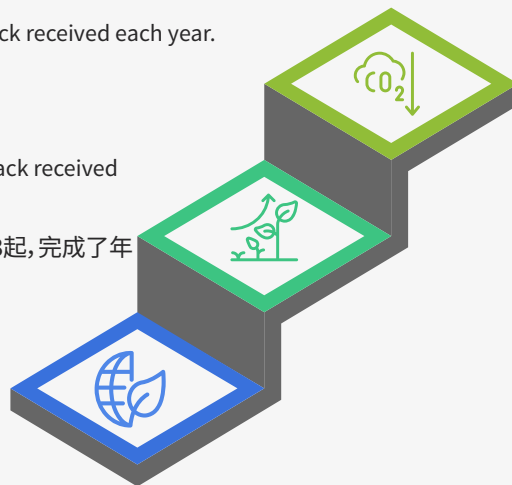
#### FY2024 Performance 2024年完成情况

- ✓ Target achieved.  
There were no major incidents; except for 13 negative feedback received from customers.  
达到目标。
- ✓ 2024年没有发生质量责任大事故;发生一般客户不良反馈13起,完成了年度质量目标。

3

#### Short-, Medium-, and Long-Term Target 短期、中期和长期目标

1. Eliminate major quality incidents.  
杜绝质量责任大事故。
2. In the normal state of supply, the internal and external qualities do not meet the customer's requirements, resulting in general customer bad feedback not exceeding 13 cases throughout the year.  
正常供货状态下因内外在质量不符合客户要求,造成一般客户不良反馈全年不超过13起。
3. Gradually reduce the number of customer bad feedback received each year.  
逐步逐年减少一般不良反馈次数。





#### Initiatives designed to increase customer satisfaction:

- Increase employees' awareness of product quality control.
- Establish each product's standards based on each customer's requirements and provide customers with a personal, bespoke service.
- Communicate with clients, visit clients, and solve the problems during use of products.
- Revised our Customer Satisfaction Survey Management System
- Conduct customers survey once every year (2023: once every six months) - The sales team will provide feedback to the production line regarding any less than satisfactory areas for corrective action to be taken.

In 2024, the Company received 46 feedback forms from customers, and the overall satisfaction rate was 98% (FY2023: 96.03%) which exceeded our target of 96%.

#### 对提高客户满意度采取的主动性方式:

- 提升全员的质量意识, 千方百计满足客户要求, 实现客户价值。
- 按照客户要求建立客户标准, 树立客户标准就是最高标准的观念, 实施个性化服务。
- 与客户进行沟通交流, 对客户进行拜访, 解决产品使用过程中的问题。
- 修订完善了《客户满意度调查管理制度》。
- 每年(2023:每半年)进行一次顾客满意度调查, 于客户不满意的项目, 由销售部门传递到相关部门实施改进, 不断增强顾客满意。

2024年, 公司共收到客户反馈的调查表46份, 总体客户满意度为98%(2023年:96.03%)超过目标要求的96%。

# SOCIAL

## 社会



### Customer Audits 客户审核

Our customers inspect our processing facilities to verify our quality and health and safety processes as well as other operating standards. For each inspection, the customer provides us feedback on areas to improve on. These help us conform to their standards and at the same time, enhance our production capabilities.

我们的客户会对我们生产基地进行考察以确认我们产品的质量, 健康安全和其他要求。对于每次审核, 客户都向我们提供反馈意见, 这也帮助我们符合了客户标准, 同时也提高了我们的生产能力

We were visited and audited by the following customers in FY2024.

2024年通过视频或实地访问并审核过我们的客户有:

- |  |                      |
|--|----------------------|
| 1. Cheng Shin Rubber (China) Co., Ltd.         | 1. 正新橡胶(中国)有限公司      |
| 2. Wanda Tire Group Co., Ltd.                  | 2. 天津市万达轮胎集团有限公司     |
| 3. Continental Tire the Americas, LLC          | 3. 大陆轮胎              |
| 4. Pirelli Tire S.p.A.                         | 4. 倍耐力轮胎有限公司         |
| 5. Yanchang Petroleum Group Rubber Co., Ltd.   | 5. 陕西延长石油集团橡胶有限公司    |
| 6. Qingdao Sentury Tire Co., Ltd.              | 6. 青岛森麒麟轮胎股份有限公司     |
| 7. Qirun Tire                                  | 7. 启润轮胎              |
| 8. Shandong Anshun Pharmaceutical Co., Ltd.    | 8. 山东安舜制药有限公司        |
| 9. Qingdao Nexen Tire Co., Ltd.                | 9. 青岛耐克森轮胎有限公司       |
| 10. Apollo Tyres Ltd.                          | 10. 印度阿波罗轮胎          |
| 11. Double Coin Holdings Ltd.                  | 11. 双钱集团(安徽)回力轮胎有限公司 |
| 12. Sailun Group Co., Ltd.                     | 12. 赛轮轮胎益凯工厂         |
| 13. Chaoyang Longma Tire Co., Ltd.             | 13. 朝阳浪马轮胎有限责任公司     |
| 14. Xiamen Cheng Shin Industrial Co., Ltd.     | 14. 厦门正新实业有限公司       |
| 15. Xinjiang Kunlun Engineering Tire Co., Ltd. | 15. 新疆昆仑工程轮胎有限责任公司   |
| 16. Sumitomo Rubber Industries, Ltd.           | 16. 住友橡胶(常熟)有限公司     |
| 17. Zhongce Rubber Group Co., Ltd.             | 17. 中策橡胶集团有限公司       |
| 18. Shandong Linglong Tire Co., Ltd.           | 18. 山东玲珑轮胎股份有限公司     |



1

### FY2024 Target 2024年目标

1. Ensure that it is market-oriented, and customer focused, and enhance customer satisfaction and loyalty, with overall customer satisfaction  $\geq 96\%$  throughout the year.  
确保以市场为导向,以顾客为关注焦点,增强顾客满意度和忠诚度,全年客户综合满意度 $\geq 96\%$ 。
2. To achieve a 100% passing rate for customers' audits.  
确保客户审核通过率100%。

2

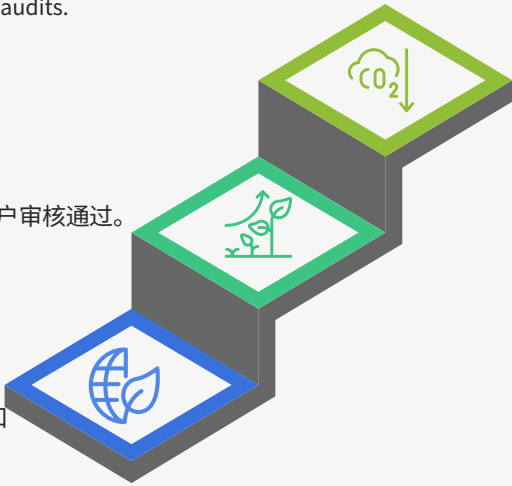
### FY2024 Performance 2024年完成情况

- ✔ Target achieved.  
Customer satisfaction rate of 98% (FY2023: 96.03%).  
Passed all customers' audits.
- ✔ 达到目标。  
全年客户综合满意度 98% (2023年: 96.03%); 全部客户审核通过。

3

### Short-, Medium-, and Long-Term Target 短期, 中期和长期目标

1. Ensure that it is market-oriented, and customer focused, and enhance customer satisfaction and loyalty, with overall customer satisfaction  $\geq 96\%$  throughout the year.  
确保以市场为导向,以顾客为关注焦点,增强顾客满意度和忠诚度,全年客户综合满意度 $\geq 96\%$ 。
2. To achieve a 100% passing rate for customers' audits.  
确保客户审核通过率100%。



# SOCIAL

## 社会



We closely monitor national policies as well as industry development trends to maintain our position at the forefront of industry innovation. We believe in continued innovation, integrated innovation, and reinvention to stay ahead of the current market trends and demand. We have therefore increased our investment in new technologies and new production processes. As a result, we achieved several innovative and technological breakthroughs. We were granted national support for “Compound Solvent Synthesis of High Thermal Stability of Insoluble Sulphur Project”, which won Shandong Province’s technological transformation award. We are also supported by the national, provincial, and municipal science and technology departments in the development of “MBT ammonium salt of oxygen preparation of new technologies MBTS”, “rubber accelerator waste gas treatment and Claus Sulfur recovery comprehensive technology” as well as more than 19 R&D projects. The “Antioxidant 6PPD hydrogenation in loop” was awarded 2nd runner up by the China Petroleum and Chemical Industry Federation. The “Research and Application of Key Technologies for Continuous Clean Production of High-performance Accelerator MBT” project was listed in the “Key Research and Development Plans (Major Science and Technology Innovation Projects)” and entitled to receive a government grant of RMB 24.36 million under “2020 Shandong Province Major Science and Technology Innovation Projects Guide”.

集团紧盯国家产业政策和本行业发展前沿，坚持原始创新集成创新和消化吸收再创新，立足自身实际，围绕新技术、新工艺、新产品开发，大力开展技术攻关，持续加大科技投入着力攻克关键共性技术瓶颈制约，多项自主创新科技成果得到成功转化。“复合溶剂法合成高热稳定性不溶性硫磺项目先后获得国家支持计划和山东省科技成果转化重大项目理和克劳斯硫磺回收综合技术”等19余项研发项目分别获得国家、省、市科技、经信等部门支持。“橡胶防老剂6PPD循环加氢新技术”获得中国石油和化工联合会科技进步二等奖。《高性能促进剂MBT连续化清洁生产关键技术研究与应用》项目入选“2020年山东省重大科技创新工程项目指南”，争取到2020年度山东省重点研发计划（重大科技创新工程）项目资金2,436万元。



As of the end 2024, the Group had 62 national patents (FY2023: 57), including 44 invention patents (FY2023: 39) and 18 utility model patents (FY2023: 18). At the same time, the Group continues to cooperate extensively on joint research projects with Tsinghua University, Tianjin University, Fudan University, Qingdao University of Science and Technology, Dalian University of Technology, Beijing University of Chemical Technology, Shandong University, Shandong University of Science and Technology, Southeast University, Institute of Process Engineering, Chinese Academy of Sciences, Dalian Institute of Physics and Chemistry, Shandong Academy of Communications, Shandong Industrial Research Institute, Qilu Petrochemical Research Institute, BASF China R & D Center, etc.

In 2017, the Company collaborated with Tsinghua University to set up an academician workstation. The Tsinghua University team led by Madam Chen Bingzhen, an academician of the Chinese Academy of Engineering and a professor at Tsinghua University, helped to boost the Company's development. The establishment of the workstation facilitates the integration of scientific research and transformation through technology, raises the profession of the rubber chemicals industry, and improves the efficacy of the Company's rubber additives.

In May 2018, Qingdao University of Science and Technology and China Sunshine founded the "Rubber Additives Engineering Technology Research Center". The establishment of the Engineering Technology Research Center is expected to contribute to the implementation of a national strategy for industrial transformation, stimulate innovation, and accelerate local economic development and social development progress. We gain a competitive advantage in the field of polymer materials by working with one of the major laboratories initiated by the Ministry of Education. With advanced equipment and a strong talent team, we will focus on transforming the scientific research results into productivity, market competitiveness of new products, expansion of the application fields of new rubber additives, and will constantly seek to improve the technology and management skills of the industry. Through various projects, we intend to engage the academic institutes for a more comprehensive co-operation, to achieve mutual support and common development on both academic and industrial levels.

至2024年底,集团拥有国家专利62(2023年:57)项,其中,发明专利44(2023年:39)项,实用新型专利18(2023年:18)项。同时,集团不断拓展合作领域,与清华大学、天津大学、复旦大学青岛科技大学、大连理工大学、北京化工大学、山东大学、山东理工大学、山东科技大学、东南大学、中科院过程研究所大连物化所、山东省交科院、山东省产业研究院、齐鲁石化研究院、巴斯夫中国研发中心等开展了研究合作项目。

2017年,尚舜化工与清华大学合作成立了院士工作站,中国工程院院士、清华大学教授、博士生导师陈丙珍带领的清华大学团队助力尚舜化工发展,院士工作站的成立将有利于实现产学研结合,充分发挥专家的科研优势,实现科技成果的转化,实现橡胶助剂产业的升级,推动尚舜化工橡胶助剂的发展取得辉煌的成果。

2018年5月,青岛科技大学与山东尚舜化工联合成立的“橡胶助剂工程技术研究中心”在山东尚舜挂牌。工程技术研究中心的成立,将为落实国家新旧动能转换战略,加快公司创新发展,促进地方经济发展和社会进步贡献力量。公司也将充分利用橡塑材料与工程教育部重点实验室在材料方面的平台优势,先进的仪器装备条件及强大的人才团队优势,将科研成果尽快地转化为生产力,新产品的市场竞争优势拓展新型橡胶助剂的应用领域,不断提升橡胶助剂和橡胶产业的技术和管理水平,通过多种形式共同推进企业与学校的全面技术合作,形成专业、产业相互促进、共同发展,实现“校企合作、产学研共赢”。

# SOCIAL

## 社会



### Innovation 自主创新

In October 2022, the first phase of the 60,000 tonnes per annum continuous production of a high-quality MBT project with a capacity of 20,000 tonnes per annum started. The project was selected as a major construction project in Shandong Province in FY2022. The completion of this project will promote the transformation toward clean, automated, and continuous operation in the Chinese rubber chemicals industry. It is therefore of great strategic significance in China's rapid development of rubber chemicals, tyres as well as the auto industry.

In April 2023, the 'Key Technology for Continuous Clean Production of 2-Mercaptobenzothiazole (MBT) Rubber Accelerator' project was jointly developed by Tsinghua University, Sunsine Chemical, and Dalian University of Technology. This project has passed the appraisal and assessment conducted by the China Petroleum and Chemical Industry Federation and the appraisal committee believed that the technological innovation and achievement of this project is on par with international standards.

The project officially began production in 2024, and we have also prepared to launch phase 2 to increase our capacity by an additional 40,000 tonnes per year.

In 2024, the Group was granted 5 national invention patents, further enhancing its intellectual property portfolio and showcasing its commitment to innovation and technological advancement. These patents reflect the Group's ongoing investment in research and development, focusing on developing cutting-edge solutions to meet the evolving needs of the industry. However, no utility model patents were granted this year, which suggests a stronger emphasis on high-level, groundbreaking inventions rather than incremental improvements. This demonstrates the Group's ambition to push the boundaries of technology and lead in its sector through pioneering inventions.

2022年10月,6万吨/年连续化溶剂法高性能促进剂MBT项目一期2万吨/年工程开工建设,项目入选了2022年山东省重大建设项目,该项目的建成将推动我国橡胶助剂行业向清洁化、自动化、连续化转型升级,对我国橡胶助剂、轮胎乃至汽车工业的快速发展具有重大的战略意义。

2023年4月,由清华大学、尚舜化工、大连理工大学共同完成的“橡胶促进剂2-巯基苯并噻唑(MBT)连续化清洁生产关键技术”项目,通过了中国石油和化学工业联合会组织的专家鉴定,鉴定委员会认为该技术成果居国际领先水平。

此项目已于2024年正式投产,并准备启动二期4万吨/年项目。

2024年,集团获得了5项国家发明专利,进一步增强了其知识产权组合,展现了集团在创新和技术进步方面的持续投入。这些专利反映了集团在研发上的持续投资,专注于开发前沿技术解决方案,以满足行业不断变化的需求。然而,今年没有获得实用新型专利,这表明集团更侧重于突破性的高水平发明,而非渐进性的改进。这展示了集团通过开创性发明推动技术边界的雄心,力求在行业中引领潮流。



Under the leadership of the Chairman of the Board, the Group has always been clear on its social responsibility, and over the years, has supported numerous public welfare projects including maintenance of roads and bridges, cultural causes, charity and poverty alleviation, etc. The Group also supports education, and in FY2024 supported 83 needy students with their education needs (FY2023: 59). In total, from 2011 to 2024, the Group has supported more than 653 needy students through RMB 2.05 million in education grants.

In FY2022, the Chairman donated RMB 12 million to the Shanxian Rural Revitalisation Foundation in his own name and established the “Xu Chengqiu Rural Revitalisation Fund” to support the rural revitalisation of Shanxian. The Chairman was awarded the “Rural Revitalisation Contribution Award” by the Shanxian Government. In FY2023, the Chairman was awarded the “8th Shandong Charity Award” in the Individual Category for Charitable Donations. In 2024, the Chairman donated an additional RMB 4 million to the “Xu Chengqiu Rural Revitalisation Fund”, further strengthening the fund.

During the year, we donated RMB 2.979 million (FY2023: RMB 2.11 million).

在董事长的带领下，集团始终把投身公益事业、履行社会责任作为自身义不容辞的义务，多年来为修路、修桥、文化、慈善、扶贫等社会公益事业捐资，并坚持捐资助学。2024年，资助贫困生83名（2023年：59名），自2011年至2024年，已累计资助贫困学生653名，共发放助学金205万多元，对弱势群体贫困学子的资助已形成常态。

2022年，董事长以个人名义向单县乡村振兴基金会捐款1200万元，设立“徐承秋乡村振兴基金”，以支持单县的乡村振兴事业，董事长因此荣获单县政府颁发的“乡村振兴贡献奖”。2023年，董事长荣获第八届“山东慈善奖”（爱心捐赠个人）。2024年，董事长再次向“徐承秋乡村振兴基金”捐赠400万元，持续充盈基金。

本年度，集团共捐助人民币297.9万元（2023年：211万元）。

1

### FY2024 Target 2024年目标

Continue to contribute to public welfare and social responsibility.  
坚持投身公益事业、履行社会责任。

2

### FY2024 Performance 2024年完成情况

- ✔ Target achieved.
- ✔ 达到目标。

3

### Short-, Medium-, and Long-Term Target 短期、中期和长期目标

Continue to contribute to public welfare and social responsibility.  
坚持投身公益事业、履行社会责任。



# SOCIAL

## 社会



### Local Communities

#### 当地社区



In FY2024, the Group has donated an additional RMB 4 million to the Shan County Rural Revitalisation Foundation, following his previous donation of RMB 12 million in 2022, demonstrating his continued commitment to supporting rural development and social welfare initiatives.

Furthermore, over the past three years, the Group has donated RMB 1 million annually to the Shan County Science and Technology Museum, amounting to a total of RMB 3 million in FY2024. This contribution supports the advancement of scientific and technological initiatives.

在2024财年，集团向单县乡村振兴基金会追加捐款400万元，此前于2022年已捐赠1200万元。这体现了集团对乡村发展和社会公益事业的持续承诺。

此外，在过去三年里，集团每年向单县科技馆捐赠100万元，截至2024财年累计捐赠达300万元，以支持科学技术事业的发展。

In FY2024, the Group, along with its employees, contributed RMB 1 million to the “Caring Heart One-Day Donation” initiative, highlighting their commitment to charitable causes. This donation reflects the Group’s ongoing support for social welfare programmes aimed at improving the lives of underprivileged communities.

2024年，集团及其员工向“慈心一日捐”活动捐款100万元，展现了他们对慈善事业的关心与支持。这笔捐款反映了集团对旨在改善贫困社区生活的社会福利项目的持续支持。

The “2024 Golden Autumn Education Assistance” Initiative is a vital programme launched by China SunSine to support students from underprivileged backgrounds in their pursuit of education. Recognising the financial barriers many students face, this initiative aims to provide essential resources and support to help them succeed academically. Through this programme, China SunSine demonstrates its commitment to social responsibility and community development, ensuring that every child has the opportunity to pursue their educational goals without being hindered by financial constraints.

2024年金秋助学活动”是中国骏兴推出的一项重要项目，旨在支持来自贫困背景的学生追求教育。我们意识到许多学生面临的经济障碍，这项活动旨在提供必要的资源和支持，帮助他们在学业上取得成功。通过这一项目，中国骏兴展示了其对社会责任和社区发展的承诺，确保每个孩子都有机会追求自己的教育目标，而不受经济限制的影响。



## Group Awards in 2024

2024年集团所获荣誉

No. 序号	Name of awards 荣誉名称	Awarding agency 颁发机构
1	2023年度最佳供应商	大连轮胎有限公司
2	2023年度经济发展特别贡献奖	中共单县县委 单县人民政府
3	2023年度突出贡献企业	中共菏泽市委 菏泽市人民政府
4	2023年度经济发展功勋企业家	中共单县县委 单县人民政府
5	2023年度特别贡献企业家	中共单县县委 单县人民政府A
6	促进剂TBBS荣获“好品山东”品牌称号	山东省质量强省及品牌战略推进工作领导小组办公室
7	《轮胎工业》第三届理事会理事单位	《轮胎工业》编辑部 全国橡胶工业信息中心
8	尚舜化工号龙舟	2024浮龙湖龙舟赛
9	工人先锋号	山东省总工会
10	2024年度中国精细化工百强	全国精细化工原料及中间体行业协作组 中国化工情报信息协会
11	资助单县科技馆科普活动100万	单县乡村振兴基金会
12	最具爱心企业	中共单县委员会 单县人民政府
13	爱心助残单位	山东省残疾人福利基金会
14	爱心助残星级企业	单县文明办 单县残疾人联合会
15	副理事长单位	中国橡胶工业协会橡胶助剂专业委员会
16	2024年度优秀供应商	中国橡胶工业协会橡胶制品分会
17	2024石油和化工企业销售收入前500家	中国化工企业管理协会《化工管理》杂志社有限公司
18	2024石油和化工企业销售收入前500家(综合类)第298名	中国化工企业管理协会《化工管理》杂志社有限公司
19	2024专用化学产品企业销售收入前100家 第38名	中国化工企业管理协会《化工管理》杂志社有限公司
20	单位 大众预防“菏”护安康	菏泽市工伤预防知识竞赛活动组委会
21	2024中国石油和化工民营企业百强(销售收入)	中国石油和化学工业联合会中小企业工作委员会
22	战略合作奖	天脊煤化工集团有限公司
23	Most Transparent Company Award (Materials Category) 最透明企业奖(材料组)	Securities Investors Association (Singapore) 新加坡证券投资者协会



# SOCIAL

## 社会



### Membership In Industry Associations

#### 协会会员

- Member of Rubber Industry Association of PRC
- Member of Rubber Accelerators Industry Association of PRC
- Member of Chinese Chemical Society
- Member of Shandong Province Rubber Industry Association
- Deputy Chairman of Green Manufactory Committee of Chemical Industry and Engineering Society of PRC
- Member of China Green Development Union
- Member of Shandong High Quality Chemical Industry Alliance
- Executive Vice President of Heze, China International Chamber of Commerce
- Executive Member of Heze Foundation for Justice and Courage
- Member Unit of the China Environmental News Council
- 中国橡胶工业协会主席团成员单位
- 中国化工学会会员单位
- 中国橡胶工业协会助剂专业委员会副理事长单位
- 山东省橡胶行业协会副理事长单位
- 中国化工学会橡塑产品绿色制造专业委员会副主任委员单位
- 中国绿色发展联盟理事单位
- 山东省高端化工发展促进会理事单位
- 中国国际商会菏泽商会常务副会长单位
- 菏泽市见义勇为基金会常务理事单位
- 中国环境报理事会会员单位

China Sunsine is committed to the highest standards of corporate governance and transparency in its policies and processes. We deem corporate governance as essential for the success of the Group and to be in the best interests of our shareholders. For more details of our corporate governance performance and practices in FY2024, please refer to our Annual Report 2024, on pages 28 to 51.

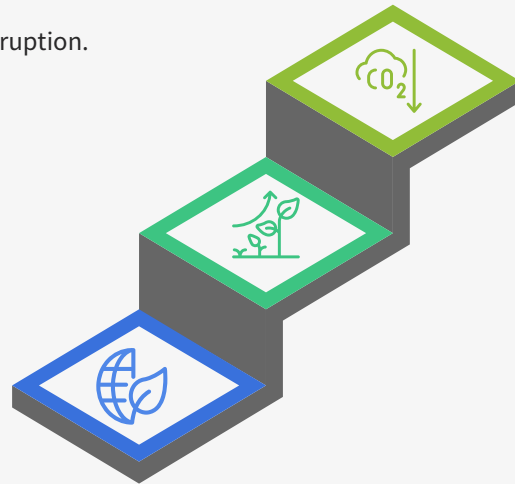
中国尚舜承诺最高标准的企业治理，政策流程的透明性。我们相信企业治理是集团成功的关键，也是对利益相关方的最大利益。对于2024年企业治理成绩和实践，请参阅2024年年报第28-51页

**1** | **FY2024 Target 2024年目标**  
Maintain zero incidents of corruption.  
保持零腐败率。

**2** | **FY2024 Performance 2024年完成情况**

- ✔ Target achieved.  
Zero incidents of corruption.
- ✔ 达到目标。未出现腐败现象。

**3** | **Short-, Medium-, and Long-Term Target  
短期、中期和长期目标**  
Maintain zero incidents of corruption.  
保持零腐败率。



## Anti-Corruption 反腐败

China Sunsine does not tolerate corruption in any form. Any report of corruption or significant matters raised through the whistle-blowing channel will be escalated to the attention of the Board of Directors. We have in place an anti-corruption policy and prohibit corruption in all forms, including extortion and bribery. We have established a complaints and management system as set out in our whistle-blowing policy, all complaints shall be reported to the Audit Committee Chairman of the Company either in person or via email that is only accessible by the Audit Committee Chairman. The Company has also put in place certain safeguards to prevent potential bribery cases from arising.

中国尚舜不容忍任何形式的腐败。任何腐败报告或检举揭发信都将上报董事会。我们禁止一切形式的腐败，包括敲诈勒索和贿赂。如我们的举报政策所述，我们有完善的投诉和管理系统，所有投诉均应亲自或通过电子邮件向公司审计委员会主席报告，该电话和电子邮件只有审计委员会主席有使用权限。并且，为了防止可能出现的腐败，董事会也采取了一系列的预防策略。

# GOVERNANCE

## 治理



### Environmental Compliance

环境合规

As set out above, we have complied with the authority's standards for wastewater discharge and toxic gas emission in FY2024.

如上所述,我们在2024年的废水和废气排放量在政府规定的限额内。

1

#### FY2024 Target 2024年目标

We aim to comply with all wastewater discharge and toxic gas emission regulatory limits.  
废水废气达标排放。

2

#### FY2024 Performance 2024年完成情况

✔ Target achieved. All wastewater and toxic gas were discharged in accordance with regulatory limits.

✔ 达到目标。废水废气全部达标排放。

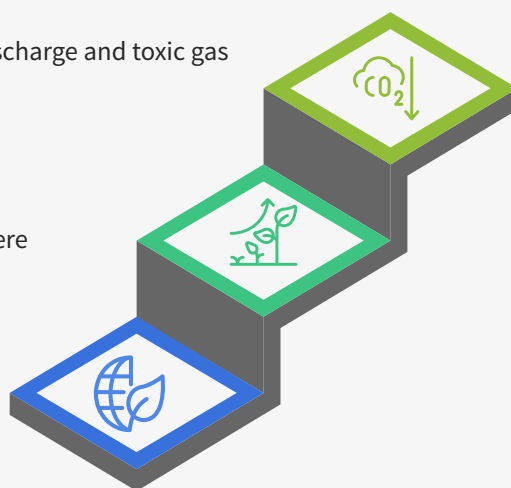
3

#### Short-, Medium-, and Long-Term Target

短期、中期和长期目标

We aim to comply with all wastewater discharge and toxic gas emission regulatory limits.

废水废气达标排放



### Enterprise Risk Management

环境合规

ERM is an integral part of good corporate governance as well as resource management. A thorough and comprehensive ERM framework enables China Sunshine to identify, communicate, and manage its risks and exposures in an integrated, systematic, and consistent manner. For detailed disclosure on ERM, please refer to our Annual Report, pages 42 to 43.

企业风险管理是良好企业治理的一部分。一份完整充分的企业风险管理大纲能帮助中国尚舜在整体、系统和一致性基础上确认,交流和管理风险及暴露的不足。

有关详细的企业风险管理报告,请参阅2024年年报第42-43页。



# GOVERNANCE 治理

Fair Operating Practice  
公平营运实践



Over the years, we have been continuously enhancing our policies and procedures such as cash management and procurement processes to prevent any anti-competitive behaviours.

In FY2024, we conducted code of conduct training for and obtained conflict of interest declarations from our management team. We will continue to strengthen our control environment to eliminate anti-competitive and corruption opportunities.

在过去的几年内,我们不断提高内部管理政策,如现金管理和采购流程,来防止任何反竞争行为。

在2024年,我们进行了管理层行动守则培训,签订了利益冲突确认函。我们会继续加强管理内部政策,争取杜绝一切反竞争行为和一切试图行贿行为。

1

## FY2024 Target 2024年目标

Continue to strengthen our control environment to eliminate anti-competitive and corruption opportunities.  
继续加强管理内部政策,争取杜绝一切反竞争行为和一切试图行贿行为。

2

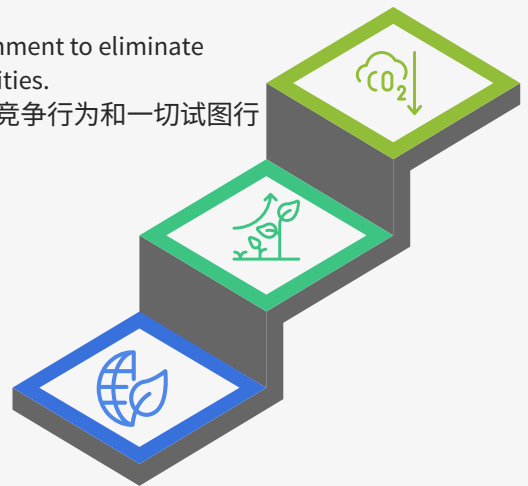
## FY2024 Performance 2024年完成情况

- ✔ Target achieved.
- ✔ 达到目标。

3

## Short-, Medium-, and Long-Term Target 短期,中期和长期目标

Continue to strengthen our control environment to eliminate anti-competitive and corruption opportunities.  
继续加强管理内部政策,争取杜绝一切反竞争行为和一切试图行贿行为。



# CLIMATE-RELATED DISCLOSURES

## 气候相关披露



### Climate-related Disclosures

#### 气候相关披露

As the world continues to experience the effects of climate change, the importance of addressing climate-related risks becomes more apparent. We recognise the importance of climate-related risks and opportunities to our business operations and believe our inaugural climate-related disclosures will enhance transparency and accountability in our sustainability efforts. We are guided by the recommendations of the TCFD for our climate-related disclosures, which should be read together with our Sustainability Report, Corporate Governance and Annual Reports FY2024.

We are committed to continuously improve our sustainability practices and believe that the climate discussion across our operations will be elevated over time as we improve our capabilities and as our sustainability journey matures.



### Climate Governance Pillar

#### 气候治理支柱

We recognise the importance of addressing climate-related risks and capitalising on opportunities for the success of our business as well as the broader impact on climate. The Board recognises the importance of addressing climate-related risks and opportunities as part of our commitment to sustainable business practices. This disclosure outlines how our Board of Directors and Management oversee and manage climate-related matters in alignment with the TCFD Recommendations.

The Board is ultimately responsible for oversight of the Group's climate-related issues across the operations and has established a SSC and STF which consist of members with expertise in climate science, sustainability, and relevant industry knowledge to provide focused attention on climate-related matters. The SSC reports directly to the Board and holds regular meetings to discuss and assess climate-related issues. The Board ensures that climate considerations are integrated into its overall business strategy and considers potential impacts on operations, risk management, and supply chain, considering different climate scenarios. This includes measures to enhance long-term resilience to climate change, reduce greenhouse gas emissions, and transition to a low-carbon economy. The Board also approves key climate-related KPIs and performance targets that are monitored and reported regularly.

随着世界继续遭受气候变化的影响,应对气候相关风险的重要性变得更加明显。我们认识到气候相关风险和机遇对我们业务运营的重要性,并相信我们首次披露气候相关信息将提高我们可持续发展工作的透明度和问责制。我们以气候相关财务披露工作组关于气候相关披露的建议为指导,该披露应与我们的可持续发展报告、公司治理和 2024财年年度报告一起阅读。

我们致力于不断改进我们的可持续发展实践,并相信,随着我们能力的提高和可持续发展之旅的成熟度,我们运营中的气候讨论将随着时间的推移而提升。

我们认识到应对气候相关风险和利用机遇对我们的业务取得成功以及对气候产生更广泛影响的重要性。董事会也认识到解决气候相关风险和机遇的重要性,这是我们对可持续商业实践承诺的一部分。本披露概述了我们的董事会和管理层如何根据气候相关财务披露工作组的建议来监督和管理气候相关事务。董事会最终负责监督集团整个运营过程中的气候相关问题。

董事会作为倡导者,最终负责监督集团内部所有气候相关问题。董事会成立了可持续发展指导委员会和可持续工作组,由具有气候科学、可持续发展和相关行业专业知识的成员组成。重点关注气候相关问题。该委员会直接向董事会汇报,并定期举行会议讨论和评估气候相关问题。董事会确保将气候因素纳入其整体业务战略,并考虑不同的气候情景对运营、风险管理和供应链的潜在影响。这包括增强对气候变化的长期适应能力、减少温室气体排放以及向低碳经济转型的措施。董事会还批准定期监测和报告与气候相关的关键绩效指标和绩效目标。

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露

Climate-related Disclosures  
气候相关披露



By virtue of delegation to support the Board, the SSC (led by the General Manager) is tasked with strategic management of climate-related risks and opportunities. The SSC is responsible for conducting regular climate risk assessments across various aspects of the business, including operations, supply chain, and market positioning. These assessments consider different climate scenarios and potential impacts on the Company's financial performance. The SSC also ensures that climate risks and opportunities are factored into business decisions to enhance long-term sustainability and value creation. The SSC also explores innovative solutions and adaptation strategies such as initiatives to reduce greenhouse gas emissions, increase energy efficiency, and explore sustainable business practices to address identified climate-related challenges.

In terms of risk mitigation strategies, the SSC is also responsible for the development and implementation of risk mitigation strategies, addressing both physical and transitional climate risks and ensuring key climate risks are integrated into the Company's ERM framework, ensuring a comprehensive approach to risk identification, assessment, and mitigation.

The SSC also establishes and monitors key climate-related KPIs and reports the progress against these KPIs to the Board and stakeholders. The SSC is committed to transparent reporting on climate-related matters, and therefore it ensures that climate-related information is accurately communicated in financial filings and sustainability reports. Under the purview of SSC is the STF which comprises representatives and senior management from different divisions. All staff from China Sunshin support the Group's effort to mitigate and address climate issues across operations.

根据对董事会的支持和委派,可持续发展指导委员会(由总经理为主任)负责对气候相关风险和机遇进行战略管理。SSC负责定期对业务的各个方面进行气候风险评估,包括运营、供应链和市场定位。这些评估考虑了不同的气候情景以及对公司财务业绩的潜在影响。SSC确保将气候风险和机遇纳入业务决策,以增强长期可持续性和价值创造。SSC还探索创新解决方案和适应策略,例如减少温室气体排放、提高能源效率的举措,以及探索可持续商业实践以应对已确定的气候相关挑战。

在风险缓解策略方面,SSC负责风险缓解策略的制定和实施,应对物理和过渡性气候风险,并确保将主要气候风险纳入公司的企业风险管理框架,确保采取全面的风险应对措施识别、评估和缓解。

SSC建立和监控与气候相关的关键绩效指标,并向董事会和利益相关者报告这些指标的进展情况。SSC致力于对气候相关事项进行透明报告,因此确保在财务文件和可持续发展报告中准确传达气候相关信息。SSC的职权范围内设有STF,该工作组由来自不同部门的代表和高级管理人员组成。中国尚舜全体员工也全力支持集团各业务部门解决气候问题的努力。

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露



In view of increased expectations from stakeholders on climate change mitigation and adaption to business, we have begun developing our internal capabilities to address the recommendations of the TCFD to manage critical climate-related risks and opportunities within our organisation in a more strategic manner. Based on our climate risk assessment conducted in FY2023, we have identified and assessed climate-related risks and opportunities across our operations that have potential financial impacts in the short- (year 2025), medium- (year 2030) and long-term (year 2050) with proposed responses or initiatives which are to be explored by the Group as follows:

鉴于利益相关者对减缓和适应气候变化对业务的期望不断提高, 我们已开始根据TCFD的建议发展我们的内部能力, 以便以更具战略性的方式管理我们组织内与气候相关的关键风险和机遇。根据我们在2023财年进行的气候风险评估, 我们已识别并评估了我们运营中与气候相关的风险和机遇, 这些风险和机遇在短期(2025年)、中期(2030年)和长期(2050年)具有潜在的财务影响, 并提出了集团将探索的应对措施或举措, 具体如下:

Climate-related Risks and Opportunities 风险和机遇类型	Anticipated Financial Impact 预期的财务影响	Timeframe 时间框架
Physical risk (Chronic) Increased precipitation and rising mean temperatures 实体风险 (长期) 降水量增加和平均气温上升	Increased operating costs 增加的运营成本	Medium- to long-term 中到长期
Description 风险描述	Increased precipitation and rising mean temperatures affect the storage of raw materials and products and control of transportation temperature. 平均降水量增加和平均温度上升影响原材料和产品的储存以及运输温度控制。	
Response 应对措施	<ul style="list-style-type: none"> <li>Employee Training: Educate employees on the effects of rising temperatures and the importance of proper storage and transportation procedures. Promote employee sustainability awareness and a culture of responsibility.</li> <li>Develop adaptive logistics plans: Develop and explore flexible logistics plans to adapt to changing temperature conditions. This includes adjusting delivery schedules, rerouting freight, or using alternative transportation methods.</li> <li>员工培训: 对员工进行有关气温升高的影响以及正确储存和运输程序的重要性的培训, 促进员工意识和责任文化。</li> <li>制定适应性物流规划: 制定灵活的物流计划, 以适应不断变化的温度条件。这可能包括调整交货时间表、重新安排货运路线或使用替代运输方式。</li> </ul>	

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露

Climate-related Risks and Opportunities 风险和机遇类型	Anticipated Financial Impact 预期的财务影响	Timeframe 时间框架
Physical risk (Acute) Increased frequency and severity of extreme weather events 实体风险（急性） 极端天气事件的频率和严重程度增加	Increased maintenance cost and insurance premium 增加的维护成本和保险费	Medium- to long-term 中到长期
Description 风险描述	The frequency and severity of extreme climate events, such as typhoons, and floods, have increased, and projections in recent years indicate that as global warming continues, these events will continue to increase and cause damages to our industrial building, infrastructures, and equipment. 极端气候事件的频率和严重性增加，如台风和洪水，近年来的预测表明全球变暖持续，这些事件将继续增加，容易对中国尚舜的工业基础设施和设备造成损害。	
Response 应对措施	<ul style="list-style-type: none"> <li>Regular Monitoring and Updates: Establish monitoring systems for weather conditions and river levels. Stay informed about climate forecasts and potential flood events to enable timely decision-making.</li> <li>Risk Assessment and Mapping: Conduct detailed risk assessments to identify areas vulnerable to flooding. Create flood risk maps to guide decision-making regarding asset locations and potential impact zones.</li> <li>定期监控和更新：建立天气状况和河流水位监测系统。随时了解气候预报和潜在的洪水事件，以便及时做出决策。</li> <li>评估和绘图：进行详细的风险评估，以确定易受洪水影响的地区。创建洪水风险地图以指导有关资产位置和潜在影响区域的决策。</li> </ul>	
Transition risk (Policy and Legal) Expansion of carbon pricing mechanism 转型风险（政策和法律） 扩大碳定价机制	Increased carbon emission pricing and cost on reducing emission 提高碳排放定价和减排成本	Medium- to long-term 中到长期
Description 风险描述	Changes in policy such as expansion in carbon tax coverage (Singapore Carbon Pricing (Amendment) Act 2022 issued to advance Singapore's transition towards net-zero) and increase in carbon tax rates which may lead to increased operating costs. China has also launched the national carbon emission trading market. As corporates have higher demand for carbon emission reduction, carbon pricing is likely to rise. 扩大碳税范围的政策变化（2022年新加坡碳定价（修订）法案）推动新加坡向净零排放转型并增加碳税率，可能会增加运营成本。中国也启动了国家碳排放交易市场。随着企业对降低碳排放的需求，碳定价可能会上涨。	
Response 应对措施	<ul style="list-style-type: none"> <li>Carbon Footprint Assessment: Conduct a comprehensive carbon footprint assessment to identify areas of high carbon emissions within the Company's operations. This will help in understanding the scope of potential carbon tax liabilities.</li> <li>Energy Efficiency Measures: Implement energy efficiency measures to reduce carbon emissions. This may include upgrading equipment, adopting energy-efficient technologies, and optimising energy consumption across operations.</li> <li>Renewable Energy Adoption: Invest in and prioritise the use of renewable energy sources to reduce reliance on fossil fuels. This can help lower the overall carbon intensity of operations.</li> <li>碳足迹评估：开展全面的碳足迹评估，以识别公司运营中碳排放较高的领域。这将有助于了解潜在碳税负担的范围。</li> <li>能源效率措施：实施能源效率措施，减少碳排放。这可能包括升级设备、采用节能技术以及优化整个运营的能源消耗。</li> <li>可再生能源的采用：未来投资并优先使用可再生能源，以减少对化石燃料的依赖。这有助于降低运营的整体碳强度。</li> </ul>	

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露



Strategy Pillar  
气候战略支柱

Climate-related Risks and Opportunities 风险和机遇类型		Anticipated Financial Impact 预期的财务影响	Timeframe 时间框架
Transition risk (Reputation) Enhanced climate reporting requirements 转型风险（声誉） 加强气候报告要求		Increased operating and compliance costs 增加的运营和合规成本	Short- to medium-term 短到中期
Description 风险描述	Stakeholders have proposed higher expectations and requirements of information disclosure and management in addressing climate change. Failure to comply with relevant climate reporting requirements imposed by the authority may lead to adverse impacts on the Group's reputation and financial performance. 利益相关者提出了更高的信息披露和管理预期和要求，以应对气候变化。未能遵守相关气候报告要求可能会对集团的声誉和财务表现造成不利影响。		
Response 应对措施	<ul style="list-style-type: none"> <li>Stakeholder Engagement and Communication: Engage with stakeholders, including investors, customers, and employees, to understand their expectations regarding climate-related disclosures. Transparently communicate climate-related initiatives and risks.</li> <li>Employee Climate-related Training: Provide training to staff responsible for climate reporting to ensure a clear understanding of reporting requirements and methodologies. This includes educating relevant personnel on the TCFD framework.</li> <li>Internal Audit and Compliance Checks: Establish an internal audit process to regularly review compliance with climate reporting requirements. This ensures that the Company always meets regulatory expectations.</li> <li>Alignment with TCFD Recommendations: Align climate reporting with the recommendations of the Task Force on Climate-related Financial Disclosures. This includes disclosing information on governance, strategy, risk management and metrics related to climate change.</li> <li>利益相关者参与和沟通：与利益相关者（包括投资者、客户和员工）互动，了解他们对气候相关信息披露的期望。透明地沟通气候相关举措和风险。</li> <li>员工气候培训：为负责气候报告的工作人员提供培训，以确保清楚地了解报告要求和方法。这包括对相关人员进行 TCFD 框架方面的教育。</li> <li>内部审计和合规检查：建立内部审计流程，定期检查气候报告要求的遵守情况。这确保了公司始终满足监管期望。</li> <li>与 TCFD 建议保持一致：使气候报告与气候相关财务披露工作组的建议保持一致。这包括披露与气候变化相关的治理、战略、风险管理和指标的信息。</li> </ul>		

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露

Strategy Pillar  
气候战略支柱 

Climate-related Risks and Opportunities 风险和机遇类型	Anticipated Financial Impact 预期的财务影响	Timeframe 时间框架
Climate-related Opportunities (Product & Services) Increased demand for development of new product and services 机遇（产品与服务） 新产品和服务开发的需求增加	Increased business revenue 增加业务收入	Medium- to long-term 中到长期
Description 风险描述	In view of increasingly strict requirements on low carbon development and expectation from stakeholder, the Group will make efforts to enhance research and development of products with green processes to build competitiveness, improve customer experience, and attract more potential customers. 鉴于对低碳发展的日益严格要求和来自利益相关者的期待，集团将努力增强绿色工艺的产品研发，提升竞争力，改善客户体验并吸引更多潜在客户。	
Response 应对措施	<ul style="list-style-type: none"> <li>Employee Collaboration with Research Institutions: Form partnerships with research institutions, universities, and innovation hubs to leverage external expertise in developing environmentally friendly products. Collaborate on joint research projects.</li> <li>Market Research and Consumer Insights: Conduct extensive market research to understand consumer preferences and market trends related to sustainable products. Gather insights to guide the development of products that meet specific environmental and social criteria.</li> <li>与研究机构的合作：与研究机构、大学和创新中心建立合作伙伴关系，利用外部专业知识开发环保产品。合作开展联合研究项目。</li> <li>市场研究和消费者洞察：进行广泛的市场研究，以了解与可持续产品相关的消费者偏好和市场趋势。收集见解以指导满足特定环境和社会标准的产品开发。</li> </ul>	
Climate-related Opportunities (Resilience) Increased supply chain resilience and adaptability 机遇（韧性） 提高供应链的韧性和适应性	Decreased operating costs and increased business revenue 减少运营成本和增加业务收入	Medium- to long-term 中到长期
Description 风险描述	The Group will continue to enhance the robustness of supply chain by exploring low carbon opportunities as well as strengthening our supply chain resilience by incorporating sustainability elements throughout our procurement lifecycle in search of green and low-carbon raw materials. 集团将继续增强供应链的稳健性，通过探索低碳机会以及在整个采购生命周期中融入可持续性元素，增强我们供应链的韧性，寻找绿色和低碳原材料。	
Response 应对措施	<ul style="list-style-type: none"> <li>Supplier Engagement and Collaboration: Work closely with suppliers to strengthen their ability to address climate risks. Provide support, resources, and guidance to help suppliers adapt to changing circumstances.</li> <li>Sustainable Procurement Policies: Develop and implement sustainable procurement policies that prioritise suppliers with strong environmental and social sustainability practices. Include sustainability criteria in supplier selection processes.</li> <li>Supplier Collaboration for Sustainable Materials: Collaborate closely with suppliers to source sustainable materials. Work together to identify and integrate eco-friendly materials into the manufacturing process.</li> <li>供应商参与和协作：与供应商密切合作，增强其应对气候风险的能力。提供支持、资源和指导，帮助供应商适应不断变化的环境条件。</li> <li>可持续采购政策及采购培训：制定并实施可持续采购政策，优先考虑具有强有力的环境和社会可持续性实践的供应商。将可持续性标准纳入供应商选择流程。为采购团队提供有关可持续和气候适应型采购实践的培训。让他们具备根据环境标准评估和选择供应商的知识。</li> <li>可持续材料供应商合作：与供应商密切合作，采购可持续材料。共同努力识别环保材料并将其整合到制造过程中。</li> </ul>	

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露



### Risk Management Pillar

气候风险管理支柱

In order to ensure and maintain a sound system of risk management and internal controls to safeguard shareholders' interests and the Company's assets, the Group has developed and implemented an Enterprise Risk Management programme to identify, prioritise, assess, manage and monitor key risks faced by the Group.

In terms of managing our climate-related risks, we have adopted plenty of measures to better adapt to climate change. This year, we have incorporated potential climate-related risks and opportunities into our ERM to ensure relevant risks and opportunities are identified, strategically assessed, and managed through our robust risk management process.

We have in place clear roles and responsibilities when it comes to governance of risk. The Board is ultimately responsible for oversight of the Group's risk management framework and policies, and review of the Group's business, financial, and operational risks (including climate-related ones).

The key climate risks identified will be reviewed by Management and reported to the Risk Management Advisory Committee ("RMAC"). The RMAC will advise the Board on strategies and measures to manage and mitigate these risks. The RMAC also reviews the adequacy and effectiveness of the ERM programme periodically and reports its findings to the Audit Committee ("AC") and the Board at least once a year or as and when new significant risks are identified.

为了确保和维持一个健全的风险管理系统和内部控制以保护股东利益和公司资产,集团已经开发并实施了一个企业风险管理程序来识别、优先处理、评估、管理以及监控集团面临的关键风险。

在管理我们气候相关风险方面,我们采取了许多措施来更好地适应气候变化,并且今年我们已将潜在的气候相关风险和机遇整合到我们的ERM程序中,以确保相关风险和机会被识别、战略性评估并通过我们的风险管理过程有效地被管理。

我们已经确立了清晰的角色和职责,当涉及到风险管理时。董事会最终负责监督集团的风险管理框架和政策,审查集团的业务、财务和运营风险(包括与气候相关的)。

被识别的关键气候风险将由管理层审查并报告给风险管理咨询委员会("RMAC")。RMAC将会向董事会提供战略和措施建议来管理和减轻这些风险。RMAC也会定期审查ERM程序的充分性和有效性,并将其发现报告给审计委员会("AC")以及在识别新的重大风险时至少每年至少报告一次给董事会。





# CLIMATE-RELATED DISCLOSURES

## 气候相关披露

Risk Management Pillar  
气候风险管理支柱



Key procedures and initiatives implemented to strengthen existing risk management and better identify, manage, and monitor climate-related risks are as follows:

- Climate risk identification: Conduct regular risk assessments, paying particular attention to climate-related risks. Integrate climate considerations into the overall risk identification process. Work with stakeholders, including investors, customers, and industry experts, to develop a deeper understanding of emerging climate risks and expectations related to climate disclosures.
- Integrate climate-related risk considerations into the Company's strategic planning process. Align risk management strategies with overall business objectives and long-term planning. Develop specific risk mitigation measures for identified climate risks. This may involve implementing adaptation strategies, diversifying supply chains, and enhancing infrastructure resilience.
- Provide regular and comprehensive reports to the Board and the risk management advisory committee on the status of climate-related risks, mitigation efforts, and any changes in the risk landscape. Schedule periodic reviews by the risk management advisory committee specifically focused on climate risks. Leverage the expertise of committee members to assess the Company's climate risk management strategies.
- Capacity building and training: Provide ongoing training to employees involved in risk management to ensure they have the skills and knowledge required to identify and manage climate risks. Conduct educational programmes for Board members and the Risk Management Advisory Committee on the latest developments in climate science, regulations, and best practices.
- Improvement on risk management strategy: Conduct regular reviews of the effectiveness of climate risk management strategies. Adapt and update strategies based on lessons learned, changes in the business environment, and emerging risks.

为加强现有风险管理并更好地识别、管理和监测气候相关风险而实施的关键程序和举措如下：

- 气候风险识别：定期进行风险评估，特别关注气候相关风险。将气候因素纳入整体风险识别流程。与利益相关者（包括投资者、客户和行业专家）合作，深入了解新出现的气候风险和与气候披露相关的期望。
- 强化风险管理策略：将气候相关风险考虑因素纳入公司的战略规划流程。将风险管理策略与总体业务目标和长期规划保持一致。风险缓解措施，针对已识别的气候风险制定具体的风险缓解措施。这可能涉及实施适应战略、供应链多元化以及增强基础设施的弹性。
- 监测和报告：定期向董事会和风险管理咨询委员会提供有关气候相关风险状况、缓解措施以及风险形势变化的全面报告。安排风险管理咨询委员会专门针对气候风险进行定期审查。利用委员会成员的专业知识来评估公司的气候风险管理策略。
- 能力建设和培训：为参与风险管理的员工提供持续培训，确保他们拥有识别和管理气候风险所需的技能和知识。为董事会成员和风险管理咨询委员会开展有关气候科学、法规和最佳实践最新发展的教育计划。
- 持续改进：定期审查气候风险管理策略的有效性。根据经验教训、商业环境的变化和新出现的风险调整 and 更新策略。

# CLIMATE-RELATED DISCLOSURES

## 气候相关披露



### Metrics and Targets Pillar 指标和目标支柱

Achieving our climate goals requires setting targets, measuring them, and improving relevant climate-related indicators. To provide our stakeholders with a better understanding of our efforts and progress in managing our key climate-related risks and opportunities, we track our climate-related performance using the following metrics and, for the first time, disclose our Scope 1 and 2 GHG emissions in the Report:

- Total energy consumption (kWh)
- Energy consumption per unit for electricity (kWh), coal (tonnes), and steam (tonnes)
- Scope 1 and Scope 2 GHG emissions (tCO<sub>2</sub>e)
- Unit water consumption (cubic meters)
- Total amount of wastewater (cubic meters)
- Wastewater discharge per unit (cubic meters)
- Amount of recycled wastewater (cubic meters)
- Amount of hazardous and non-hazardous waste (tonnes)

We also recognised the importance of monitoring our indirect Scope 3 emissions and we have put forward the efforts to evaluate our indirect Scope 3 emissions. Scope 3-related metrics primarily address the most material upstream emissions from suppliers, but also downstream emissions related to sold products. Although currently we are still not able to cover Scope 3 emissions, we aim to include reporting coverage of our Scope 3 emissions on categories relevant to the Group in the future as and when data is available.

In line with our commitment to tackling climate change, China Sunshine has set climate-related targets as follows:

- Energy: To ensure that steam and electricity consumption per unit production does not exceed the previous year's levels and is further reduced.
- Water: Aim to maintain the same level of water consumption per unit.
- Wastewater discharge: Aim to reduce the discharge of wastewater per unit and increase the amount of wastewater to be recycled.
- Emissions: We aim to comply with all national laws and regulations on air emission indicators.

实现我们的气候目标需要设定目标、测量并改善相关的气候相关指标。为了让我们的利益相关者更好地理解我们的努力和在管理我们关键的气候相关风险和机会方面的进展,我们跟踪并使用以下指标记录我们的气候相关绩效,并在报告中首次披露了我们的第1范围和第2范围碳排放:

- 总能源消耗(千瓦时)
- 单位能源消耗,用于电力(千瓦时)、煤(吨)和蒸汽(吨)、天然气(立方米)
- 第1范围、第2范围(二氧化碳当量)
- 单位产品用水量(立方米)
- 总废水量(立方米)
- 单位产品废水排放量(立方米)
- 回收利用的废水量(立方米)
- 危险废物及非危险废物(吨)

我们也认识到监测间接范围3排放的重要性,并已投入努力评估我们的间接范围3排放。范围3相关指标主要针对最重要的供应商上游排放,同时也包括与销售产品相关的下游排放。尽管目前我们仍然不能实现,我们的目标是将来在数据可用时,能够将报告覆盖范围扩展到与集团相关的范围3排放类别。

为了实践我们应对气候变化的承诺,中国尚舜化工集团已设定以下与气候相关的目标:

- 能源:确保单位产品的蒸汽和电力消耗不超过上一年度水平,并在此基础上进一步降低。
- 水源:力争保持单位产品水消耗水平不超过去年。
- 废水排放:减少单位废水排放量,增加废水回收量。
- 排放:废气排放各项指标符合国家法律法规的要求。

# GRI STANDARDS CONTEXT INDEX

## 全球报告倡议组织准则指引

<b>Statement of use</b>	China Sunshine Chemical Holdings Ltd. has reported the information cited in this GRI content index for the period 1 January 2024 to 31 December 2024 in accordance with the GRI Standards.
<b>GRI 1 used</b>	GRI 1: Foundation 2021

GRI Standards	Disclosure	Location	Reason for Omission
<b>General Disclosures</b>			
GRI 2: General Disclosures 2021	2-1 Organizational details	SR 6	
	2-2 Entities included in the organization's sustainability reporting	SR 8	
	2-3 Reporting period, frequency and contact point	SR 8-9	
	2-4 Restatements of information	SR 28	
	2-5 External assurance	None	
	2-6 Activities, value chain and other business relationships	AR 22-25	
	2-7 Employees	SR 35-38	
	2-8 Workers who are not employees	SR 35-38	
	2-9 Governance structure and composition	SR 10	
	2-10 Nomination and selection of the highest governance body	AR 34-37	
	2-11 Chair of the highest governance body	AR 14	
	2-12 Role of the highest governance body in overseeing the management of impacts	AR 31-33	
	2-13 Delegation of responsibility for managing impacts	SR 10	
	2-14 Role of the highest governance body in sustainability reporting	SR 10	
	2-15 Conflicts of interest	AR 28-30	
	2-16 Communication of critical concerns	SR 61	
	2-17 Collective knowledge of the highest governance body	AR 32-33	
	2-18 Evaluation of the performance of the highest governance body	AR 34-38	
	2-19 Remuneration policies	AR 38-40	
	2-20 Process to determine remuneration	AR 38-40	
	2-21 Annual total compensation ratio	AR 41-42	
	2-22 Statement on sustainable development strategy	SR 11	
	2-23 Policy commitments	SR 35	
	2-24 Embedding policy commitments	SR 35	
	2-25 Processes to remediate negative impacts	SR 61	
	2-26 Mechanisms for seeking advice and raising concerns	SR 12-15, 61	
	2-27 Compliance with laws and regulations	SR 62-63	
	2-28 Membership associations	SR 60	
	2-29 Approach to stakeholder engagement	SR 12-15	
	2-30 Collective bargaining agreements	None	
<b>Material topics</b>			
GRI 3: Material Topics 2021	3-1 Process to determine material topics	SR 16-17	
	3-2 List of material topics	SR 17	

# GRI STANDARDS CONTEXT INDEX

## 全球报告倡议组织准则指引

GRI Standards	Disclosure	Location	Reason for Omission
<b>Economic Performance</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 18	
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	SR 18	
	201-2 Financial implications and other risks and opportunities due to climate change	SR 18	
	201-3 Defined benefit plan obligations and other retirement plans	SR 18	
	201-4 Financial assistance received from government	SR 18	
<b>Anti-corruption</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 61	
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	SR 61	
	205-2 Communication and training about anti-corruption policies and procedures	SR 61	
	205-3 Confirmed incidents of corruption and actions taken	SR 61	
<b>Energy</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 24-27	
GRI 302: Energy 2016	302-1 Energy consumption within the organization	SR 24-25	
	302-3 Energy intensity	SR 25	
<b>Water</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 28-29	
GRI 303 Water and Effluents 2018	303-2 Management of water discharge-related impacts	SR 28-29	
	303-3 Water withdrawal	SR 28-29	
	303-4 Water discharge	SR 29	
	303-5 Water consumption	SR 28	
<b>Emission</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 30-33	
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	SR 32	
	305-2 Energy indirect (Scope 2) GHG emissions	SR 32	
	305-4 GHG emissions intensity	SR 32	

# GRI STANDARDS CONTEXT INDEX

## 全球报告倡议组织准则指引

GRI Standards	Disclosure	Location	Reason for Omission
<b>Employment, Diversity and Equal Opportunity</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 35-38	
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	SR 37-38	
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	SR 35-38	
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	SR 35-38	
<b>Occupational Health and Safety</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 42-47	
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	SR 42-47	
	403-2 Hazard identification, risk assessment, and incident investigation	SR 42-47	
	403-3 Occupational health services	SR 42-47	
	403-4 Worker participation, consultation, and communication on occupational health and safety	SR 42-47	
	403-5 Worker training on occupational health and safety	SR 42-47	
	403-6 Promotion of worker health	SR 42-47	
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	SR 42-47	
	403-8 Workers covered by an occupational health and safety management system	SR 42-47	
	403-9 Work-related injuries	SR 47	
	403-10 Work-related ill health	SR 47	

# GRI STANDARDS CONTEXT INDEX

## 全球报告倡议组织准则指引

GRI Standards	Disclosure	Location	Reason for Omission
<b>Training and Education</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 39-41	
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	SR 39-41	
	404-2 Programs for upgrading employee skills and transition assistance programs	SR 40	
	404-3 Percentage of employees receiving regular performance and career development reviews	SR 39-41	
<b>Local Communities</b>			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 58-59	
GRI 413: Local communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	SR 58-59	
	413-2 Operations with significant actual and potential negative impacts on local communities	SR 58-59	

# CHINA SUNSINE SURVEY FEEDBACK FORM

## 中国尚舜重要性评估调查反馈表

Dear valued stakeholder,

China Sunsine Chemical Holdings Ltd. (the “**Company**” or together with its subsidiaries “**the Group**”) has always attached importance to corporate sustainable development and actively fulfilled its social responsibilities. We hereby invite you to participate in a materiality survey which aims to gather insights from your suggestions and expectations of our work in managing economic, environmental, social, and governance (“**EESG**”) issues (collectively, “**Sustainability Factors**”) and provides a strong basis for the company to develop a robust business strategy to manage our sustainability-related risks and opportunities.

We would appreciate it if you could take a moment to complete the Survey Feedback Form and send it to srfeedback@sunsine.com. Your feedback is valuable and is the best guide to our continuous improvement.

**尊敬的利益相关者：**

中国尚舜化工控股有限公司（以下简称“公司”连同其子公司合称“集团”）一直重视企业可持续发展并且积极履行社会责任。我们特此邀请您参与一项重要性调查。此调查仅用于收集您对我们管理经济、环境、社会及企业治理（“EESG”）课题（统称为“可持续发展因素”）方面的建议和期望，并为集团提供有力的依据以制定稳固的商业策略及有效的管理框架来考量可持续发展相关的风险和机遇。

请填写此调查反馈表并扫描电邮至srfeedback@sunsine.com，我们非常感谢您参与这项调查，您的反馈是我们持续改进的最佳指导。

### A. Please tell us about yourself

让我们了解您

#### 1. Which stakeholder group are you from?

您来自哪个利益相关者群体？

<input type="checkbox"/>	Directors 公司董事
<input type="checkbox"/>	Employees/Trade Unions 公司员工/工会
<input type="checkbox"/>	Customers/Consumers 客户/消费者
<input type="checkbox"/>	Communities 当地社区/公众和非政府组织
<input type="checkbox"/>	Government/Regulators 政府/监管者
<input type="checkbox"/>	Suppliers/Service Providers 供应商/服务提供商
<input type="checkbox"/>	Investors/Shareholders 投资者/股东
<input type="checkbox"/>	Trade Associations 行业协会

#### 2. Name of respondent:

您的名字：

# CHINA SUNSINE SURVEY FEEDBACK FORM

## 中国尚舜重要性评估调查反馈表

### B. Please rank the following EESG factors.

请对以下问题进行等级排序及填写您的答复。

Please rank the following EESG factors considered important to you as a stakeholder from 1 to 5, 5 being extremely important; 4 being very important; 3 being moderately important; 2 being slightly important; 1 being not at all important. 作为集团的利益相关者，请依据1-5为下列您认为重要的可持续发展因素进行排序。5为非常重要；4为重要；3为一般；2为不重要；1为非常不重要。

#### 1. Economic

##### 经济

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
Economic Performance - Achieving long term returns for stakeholders by adopting responsible business practices. 经济绩效 - 通过采用负责任的商业手段为利益相关者实现长期回报	
Anti-corruption - Promoting ethical business and transparency by avoiding all forms of corruption. 反腐败 - 通过提倡商业道德及透明度来避免各种形式的贪污与腐败	
Are there any other economic material factors not listed above that you consider as material to be disclosed in Sustainability Report? 除了上述所列出的重要经济因素，您认为在可持续发展报告中还应披露哪些重要因素？	

#### 2. Environment

##### 环境

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
Energy - The measurement, monitoring, and reduction of energy consumption in our operations. 能源 - 在营运中测量、监察及减少能源消耗	
Water and Wastewater discharge - Maximising water efficiency and ensuring safe treatment and disposal of wastewater. 水资源及废水排放 - 在营运时尽量提高用水效率，并确保安全处理及处置废水	
Emissions - Identifying and minimising potential impacts arising from emissions. 碳排放 - 识别排放时所产生的潜在影响及使减至最小化	
Are there any other environmental material factors not listed above that you consider as material to be disclosed in Sustainability Report? 除了上述所列出的重要环境因素，您认为在可持续发展报告中还应披露哪些重要因素？	



# CHINA SUNSINE SURVEY FEEDBACK FORM

## 中国尚舜重要性评估调查反馈表

### 3. Social

#### 社会

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
<p>Employment, Diversity, and Equal Opportunity - Promoting the culture of free discrimination, diversity, and inclusion in the workforce.                      雇佣, 多元化和平等机会 - 在劳动力中提倡不歧视、多样性及包容的文化</p>	
<p>Occupational Health and Safety - Promoting employees' physical and mental well-being and safety.                      职业健康及安全 - 促进公司员工身心健康及安全</p>	
<p>Training and Education - Providing on-the-job training and career development opportunities to employees.                      培训和教育 - 为员工提供在职培训和职业发展机会</p>	
<p>Local Communities - Engaging with local communities and supporting public welfare project.                      当地社区 - 积极投身公益事业, 履行社会责任</p>	
<p>Are there any other social material factors not listed above that you consider as material to be disclosed in Sustainability Report?                      除了上述所列出的重要社会因素, 您认为在可持续发展报告中还应披露哪些重要因素?</p>	

# CHINA SUNSINE SURVEY FEEDBACK FORM

## 中国尚舜重要性评估调查反馈表

### 4. Governance

#### 治理

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
<p>Environmental Compliance - Ensuring compliance with laws and regulation relating to environmental aspect. 环境合规 - 确保遵守与环境有关的法律法规</p>	
<p>Enterprise Risk Management - Ensuring sound ERM framework in place to identify and manage risks. 企业风险管理 - 确保集团有健全的ERM框架, 以识别和管理风险</p>	
<p>Fair Operating Practice - Enhancing policies and procedures (i.e. cash management, procurement processes) to prevent any anti- competitive behaviours. 公平营运实践 - 提高内部管理政策, 如现金管理和采购流程, 来防止任何反竞争行为</p>	
<p>Relevant Certifications - Obtain of ESG-related certification E.g. ISO 14001:2004 Environment Management System. 相关资质证书 - 获得ESG相关认证, 例如ISO 14001:2004环境管理系统认证</p>	
<p>Assurance of Sustainability Report - Perform assurance in accordance with recognised assurance standards to strengthen the credibility of the Sustainability Report. 可持续发展报告鉴证 - 按照认可的鉴证标准进行鉴证, 以加强可持续发展报告的可信度</p>	
<p>Are there any other governance material factors not listed above that you consider as material to be disclosed in Sustainability Report? 除了上述所列出的重要治理因素, 您认为在可持续发展报告中还应披露哪些重要因素?</p>	

# CHINA SUNSINE SURVEY FEEDBACK FORM

## 中国尚舜重要性评估调查反馈表

**C. Other comments or suggestions:**

其他反馈或意见:

- 1. Apart from the sustainability factors set out in this survey, are there any other comments/feedback you would like to share to improve the sustainable development of China Sunsine Chemical Holdings Ltd.?**

除了以上所列出的可持续发展因素外，您是否对中国尚舜化工控股有限公司的可持续发展有其他意见或反馈吗？



**CHINA SUNSINE CHEMICAL HOLDINGS LTD.**

(Incorporated in the Republic of Singapore on 28 June 2006)

(Company Registration Number: 200609470N)

16 Raffles Quay

#15-08 Hong Leong Building

Singapore 048581

Tel: +65 6220 6686

Fax: +65 6223 0605

Email: [info@ChinaSunsine.com](mailto:info@ChinaSunsine.com)

[www.ChinaSunsine.com](http://www.ChinaSunsine.com)