



尚舜化工
SUN SINE

CHINA SUNSINE CHEMICAL HOLDINGS LTD.

INNOVATION TRUST GROWTH

CONTENTS

目录

Chairman's Message 主席致辞	02	Environmental 环境	23
Organisational Profile 公司简介	06	Social 社会	34
About This Report 关于此报告	07	Governance 治理	58
Our Approach To Sustainability 可持续发展方法	10	Climate-Related Disclosures 气候相关披露	60
Economic 经济	18	GRI Standards Content Index 全球报告倡议组织准则指引	69
		Sustainability Feedback Form 调查反馈表	73





尚舜化工

Sunshin Chemical

CHAIRMAN'S MESSAGE 主席致辞



**Altruism is not a trivial matter;
Mindfulness serves to propel
the journey forward**

**利他并非等闲事，
正念即起助远行**



CHAIRMAN'S MESSAGE

主席致辞

On behalf of the Board of Directors, I am pleased to present the Sustainability Report of China Sunshin Chemical Holdings Ltd. (“**China Sunshin**”, together with its subsidiaries, collectively the “**Group**”) for the financial year ended December 31, 2023 (“**FY2023**”).

2023 was another challenging year for many businesses and industries. Various uncertainties increased, including an economic environment with high interest rates, the Russia-Ukraine conflict, conflicts in the Gaza region, geopolitical tensions, and weakening international trade. These factors, combined with intensified industry competition, have brought about greater challenges for the survival and development of an enterprise.

However, the Group withstood the pressure in a difficult environment and resolutely implemented the “Higher sales volume leading to higher production, which in turn stimulates even higher sales” (also called “Sales and Production Equilibrium”) strategy. We responded to market competition with a more flexible price strategy. The scale of our production capacity provided essential support for us to obtain such a large number of orders, and to meet the needs of our customers for our products to the greatest extent. As a result, the Group achieved a record high of more than 10% growth in both production and sales volume in FY2023. The Group’s share in the Chinese and international markets has been further expanded, and its competitive advantages, further strengthened. The Group remained the world’s largest rubber accelerator producer and China’s largest rubber chemicals enterprise in FY2023.

Two major expansion projects had also made significant progress in FY2023. The ongoing Phase 2 of the 30,000-tonne insoluble sulphur project is slated for completion by the end of 2024. In addition, Phase 1 of the 20,000-tonne continuous production high-quality MBT project (with a total project of 60,000-tonne capacity per annum, built in two phases) has been completed and is undergoing a trial run. It is expected to commence commercial production in the second half of FY2024.

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2023年12月31日的2023财年的《可持续发展报告》。

2023年对大多数企业和行业来说又是极具挑战性的一年。各种不确定因素增多，高利率的经济环境、俄乌冲突、加沙地区冲突、地缘政治的紧张局势、国际贸易缩减，再加上原材料价格波动，行业竞争压力加大，对企业的生存和发展带来更多的挑战。

然而，集团在困难的环境下顶住压力，坚定地贯彻执行“以销促产，以产促销”的产销平衡策略，以更为灵活的价格策略应对市场竞争。我们产能规模给我们获取等多的订单带来了很大的支持，我们能够最大限度地满足客户对我们的产品的需求。因此，集团在2023年产销量均实现了超过10%的增长，并创下了历史新高。集团在中国以及国际市场上的份额进一步扩大，各项竞争优势也进一步加强。2023年集团依然保持着世界最大的橡胶促进剂生产商和中国最大的助剂生产商的领先地位。

集团正在进行的两大扩产项目2023年也取得了实质进展。二期3万吨不溶硫项目已经开始建设，预计2024年底建成；另外，一期2万吨连续性生产高质量MBT项目（总项目年产能6万吨，分两期建设）也已完成，目前正在试运行阶段，预计2024年下半年投产。

CHAIRMAN'S MESSAGE

主席致辞

The MBT project adopts a continuous solvent MBT production innovation process which was developed jointly by the R&D team of Shandong Sunsine and Tsinghua University. 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 chemicals industry towards clean, automated, and continuous production. It has great strategic significance for the rapid development of China's rubber chemicals, tyres, and even the automobile industry.

In a highly competitive environment, our average selling price is under great pressure, and how to maintain cost advantage has become an important issue. While using automated continuous production to greatly improve productivity and reduce wastage, it is also necessary to optimize all links, reduce wastages, compress costs, eliminate waste, and achieve energy conservation and efficiency improvement in the whole process from raw materials entering the factory to product sales collection.

The Group has continuously pursued its commitment to promoting 'green production'. Every year, a lot of manpower and material resources are invested in energy conservation and emission reduction, waste treatment, recycling, environmental protection equipment renewal and maintenance, and strengthening the training of environmental protection personnel, so as to build a low-carbon operating model and propelling the enterprise towards high-quality development.

In this Sustainability Report 2023, we published our first climate-related disclosures and deepen our understanding of the climate-related risks and opportunities, and TCFD Recommendations ("TCFD").

这个MBT项目所采用的是由山东尚舜研发团队和清华大学共同研发的连续化溶剂法高性能促进剂MBT生产工艺。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。

在激烈的竞争环境中，我们的平均销售价格遇到了很大的压力，如何保持成本优势就成为了一个重要课题。在采用自动化连续化生产大大提高生产率、降低损耗同时，还要优化各个环节，在从原材料进厂到产品销售回款整个全过程中，降低损耗，压缩费用，杜绝浪费，把节能增效做到位。

集团在推进“绿色化生产”的道路上从未停歇。每年在节能减排、污废处理、循环利用、环保设备更新和维护、加强环保人员培训等方面投入了大量人力、物力，构建低碳运行模式，驱动企业实现高质量发展。

在这份《可持续发展报告》中，我们首次发布了气候相关信息披露及加深我们对气候相关风险和机遇以及TCFD建议（“TCFD”）的了解。



CHAIRMAN'S MESSAGE 主席致辞

Over the years, the Group has been actively engaged in public welfare undertakings, culture, charity, poverty alleviation and other public welfare undertakings, and insisted on donating to schools and paying attention to the disadvantaged.

Adhering to the shared values of “putting people first” and “mindfulness and altruism,” the Group, along with customers, employees, shareholders, and other stakeholders, forms a community of shared interests to realise common values. This embodies the Group’s greatest social value.

We look forward to jointly building a green rubber industry chain with our customers to achieve sustainable development in the rubber industry. We also aim to collaborate with our peers to create a ‘green’ brand awareness, and further enhance our Group’s global position as a leading brand in the rubber chemicals industry.

“Altruism is not a trivial matter; mindfulness serves to propel the journey forward”. Let’s work together to create a greater new height!

Xu Chengqiu

Executive Chairman
March 2024

集团始终把投身公益事业、履行社会责任作为义不容辞的义务，多年来积极投身修路、筑桥、文化、慈善、扶贫等公益事业，并坚持捐资助学、关注弱势群体等。

坚守“以人为本，正念利他”的共同价值观，集团与客户、员工、股东以及社会相关方连成一个利益共同体，实现共同价值，是集团社会价值的最大体现。

我们期待与客户一起共建绿色橡胶产业链，实现橡胶工业的可持续发展；与同行一起共创中国绿色助剂品牌，提升企业在全全球橡胶助剂品牌和领先地位。

“利他并非等闲事，正念既起助远行”。让我们携手共创新的辉煌。

徐承秋

执行主席
2024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 4.39 billion, approximately 2,100 employees, and roughly 700 professional technical staff, and over 46 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46年的发展，目前拥有总资产43.9亿元，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、不溶性硫磺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”的发展方针，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 2023 (“FY2023” or “Reporting Period”).

我们很高兴在此呈现集团截至2023年12月31日2023财年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 an internal review by internal auditors.

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 FY2023, we had focused on publishing our sustainability report. At the same time, we have invested in the disclosure of climate-related information disclosures and obtaining a deep understanding of climate-related risks and opportunities, as well as TCFD Recommendations, which were released for the first time this year.

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内部审计师的内部审计。

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。

2023年，我们主要将精力放在发布可持续发展性报告上。同时，我们也对今年首次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 Sustainability 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 2023, 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2023年度的12个月内，即从2023年1月1日到2023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相关数据支持。

- 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 EESG 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 FY2023, we received feedback as well as suggestions for our Sustainability 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 regard to our sustainability efforts as this will enable us to improve our policies, systems, and results. 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EESG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。

2023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 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，并对可持续性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 ("SSC")

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.

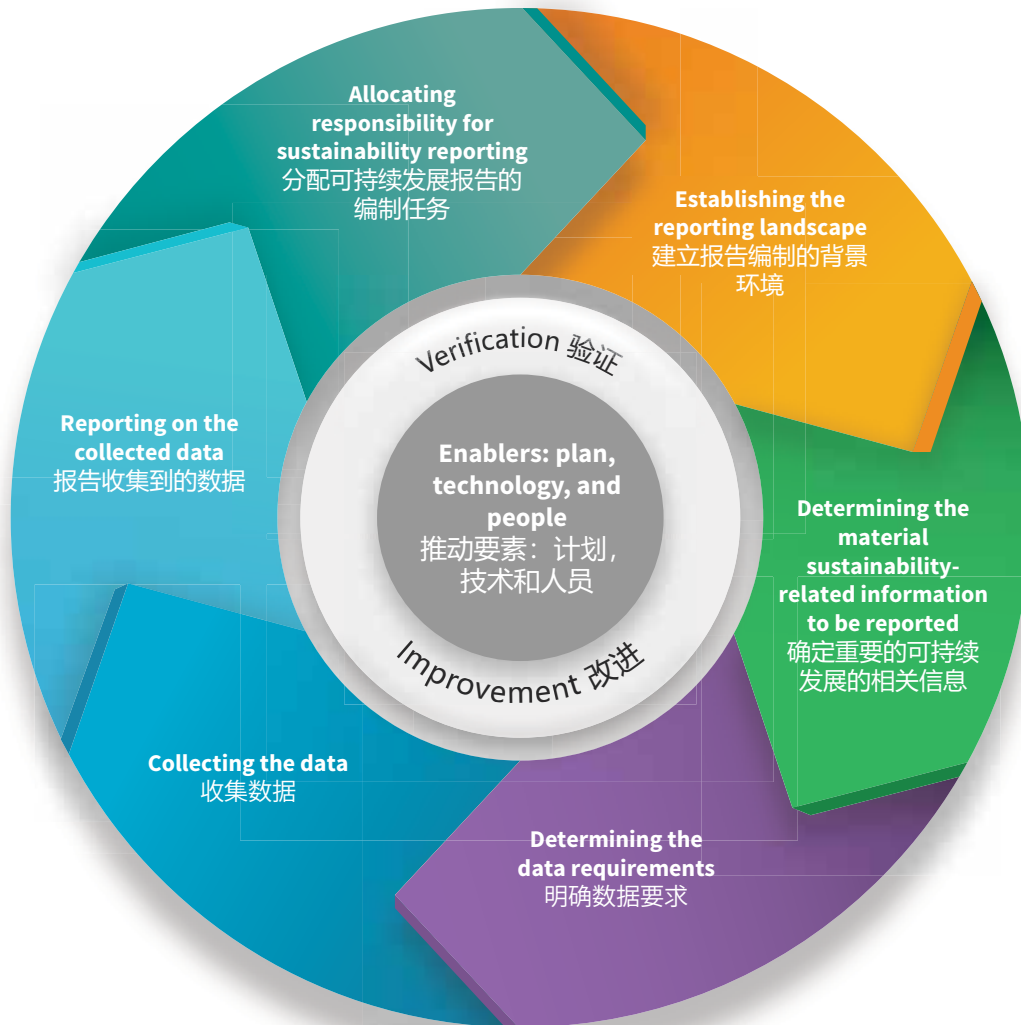
中国尚舜的员工支持集团的可持续发展计划、政策和最佳实践。

To enhance our sustainability governance, the Company established a Sustainability Steering Committee led by the General Manager since 2017. During the year, 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"> ● Hotline 热线 ● Email enquiries 电邮 ● Customer visit 客户拜访 ● Onsite audit 客户现场审计 	<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 organization 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"> ● Official website 公司官网 ● Social responsibility report 社会责任报告 ● Interviews and meetings 走访交流 ● Various social and charity events 各种社区和公益活动 	<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"> Townhall sessions 职工大会 Open dialogues among teams 民主讨论 Intranet portal 内网门户 Relevant information disclosure 相关信息披露 	<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>Organizing 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"> Regular reporting 定期报告 Relevant information disclosure 加强信息披露 	<p>Realizing 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>Organizing 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"> ● Face-to-face meetings 面谈 ● Regular reports 定期汇报 ● Participation in discussions 参与讨论 	<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 确保安全生产</p>	<p>Paying taxes 依法纳税</p> <p>Reporting to work regularly 定期汇报工作</p> <p>Realizing prudent operation 实现稳健经营</p> <p>Strengthening safety management 加强安全管理</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"> ● Face-to-face meetings 面谈 ● Annual review and feedback sessions 年度审核及回馈 	<p>Realizing 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



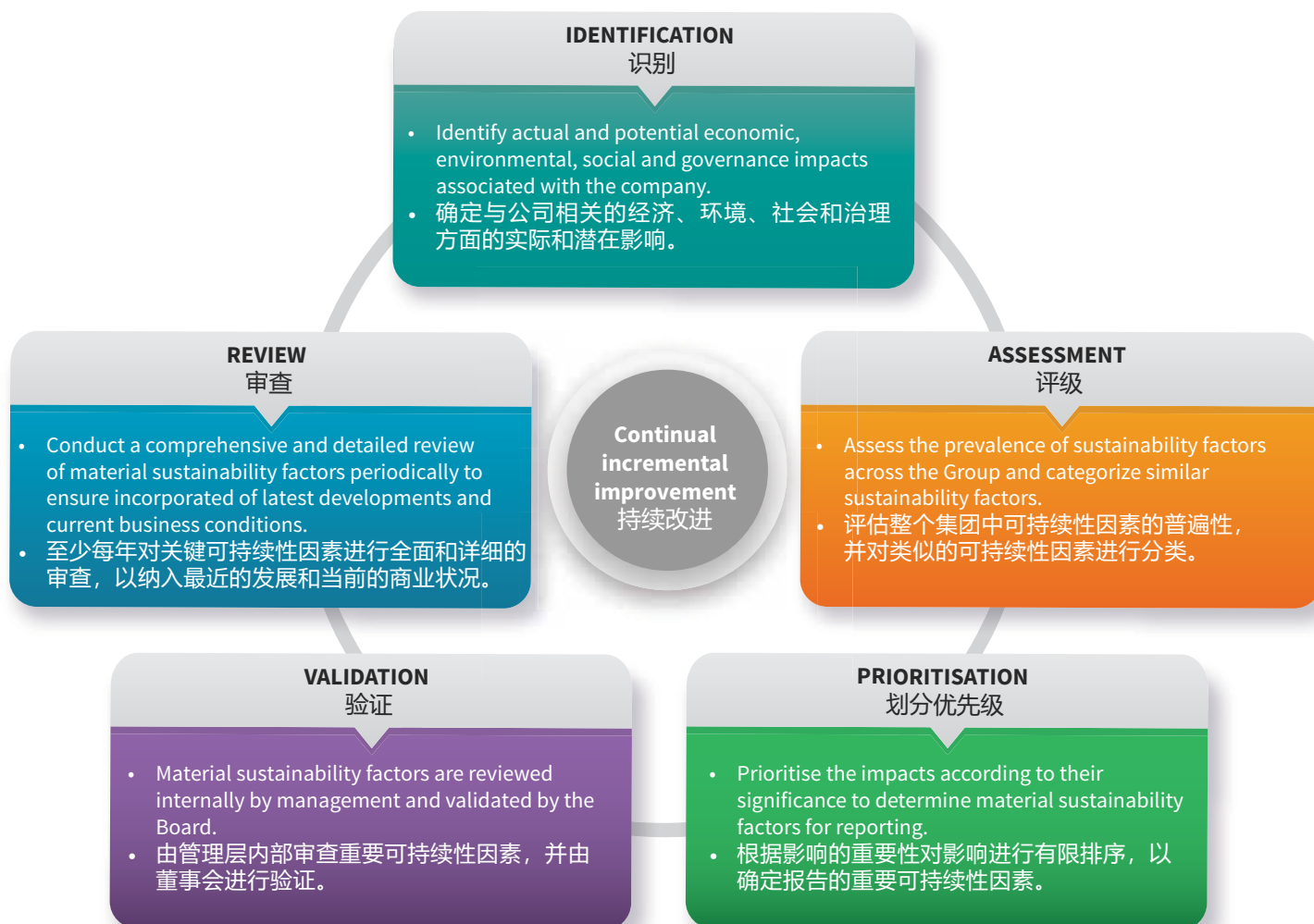
Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key Concerns and Expectations 主要诉求	Our Responses and Actions 履责行动
Investors/ Shareholders 投资者/股东  <p>Our shareholders are our source of capital and expect that we deliver continued profitability. 我们的股东是我们的资金来源，他们期望我们能够实现持续盈利。</p>	<ul style="list-style-type: none"> ● Group Annual Report 集团年报 ● Annual General Meeting 年度股东大会 ● Semi-yearly result briefings 半年度业绩简介会 ● Informal discussion 非正式讨论 ● Announcement 公司公告 	<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>Realizing 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>
Trade Associations 行业协会  <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"> ● Engagements through business partnerships 商业合作 ● Leading working groups in industry associations 行业协会理事单位 ● Face to face meetings and communications 相关会议沟通 	<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



OUR APPROACH TO SUSTAINABILITY 可持续发展方法

Material Aspects Assessment 重要指标评估



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. Applying the guidance from GRI, we have identified the following material EESG factors for FY2023 which are the same as those determined last year as they are still relevant and current to the Group:

我们的材料性评估首先确定和评估经济、环境、社会 and 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。根据全球报告倡议组织指南，我们确定了以下2023年的重要指标。这些指标与去年相同，因为它们仍然与集团目前形式相关。



- ① Economic Performance 经济绩效
- ② Anti-corruption 反腐败
- ③ Energy 能源
- ④ Water 水资源
- ⑤ Emission 排放
- ⑥ Employment, Diversity and Equal Opportunity 雇佣, 多元化和平等机会
- ⑦ Occupational Health and Safety 职业健康和安全
- ⑧ Training and Education 培训与教育
- ⑨ Local Communities 当地社区
- ⑩ Environmental Compliance 环境合规
- ⑪ Risk Management 风险管理
- ⑫ Fair Operating Practice 公平营运实践

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 2023:

- Financial Highlights, pages 2 to 3.
- Operations & Financial Review, pages 10 to 13.
- Financial Statements, pages 63 to 110.



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 FY2023 (exclusive of 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 FY2023:

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.

中国尚舜一直认为，只有通过采用负责任的商业手段，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2023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63 - 110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2023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，2023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。

ECONOMIC 经济



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 Phase 1 30,000 tonnes per annum insoluble sulphur plant was completed. The construction of Phase 2 was initiated in FY2022, the building and infrastructure constructions were mostly completed as at the end of 2023. 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 (the "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 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 waste water 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. MBT Project phase one production capacity is 20,000 tonnes. By the end 2023, the civil works and equipment commissioning of the project have been completed and is in trial stage. The Management expects production to commence in 2nd half of 2024.

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。2022年启动的二期项目建设，截至2023年底，土建工程已基本完工，部分设备已安装到位。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。该工艺能够实现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。一期项目为2万吨。截至2023年底，该项目土建及设备调试已完成，正在进行试车。管理层预计2024年下半年正式投产。

ECONOMIC 经济



Production 生产量

In order to reduce the 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 also 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 FY2023 increased to 208,566 tonnes and 206,996 tonnes (FY2022: 190,799 tonnes and 186,153 tonnes), respectively. The per capita production and sales were 98.57 tonnes and 97.82 tonnes respectively (FY2022: 87.00¹tonnes and 84.89¹ 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2023年度的产销量均有大幅度上升，全年产量及销量各为208,566吨及206,996吨（2022年：190,799吨及186,153吨），产销量均有不同程度的上升。人均产销量分别为98.57吨及97.82吨（2022年：87.00¹吨及84.89¹吨）。人均产量的提高主要是由于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。



1 Restatement on FY2022 per capita production and sales due to correction.

ECONOMIC 经济

Market Presence 市场表现



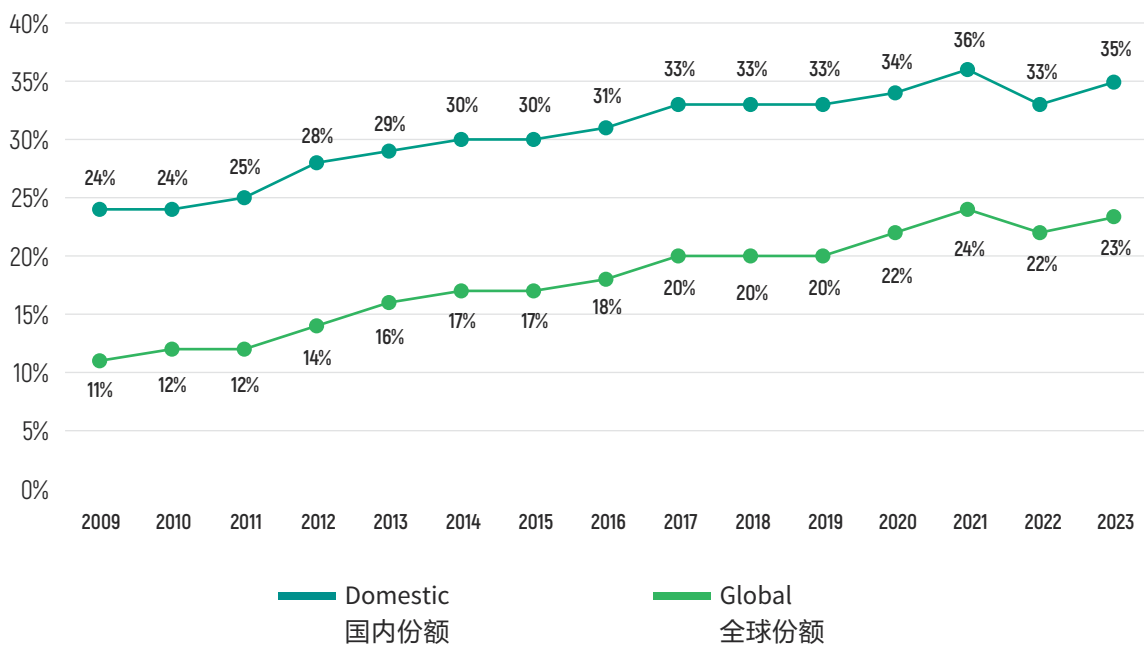
Our customer base mainly comprises tyre companies that provide products and services to the automobile industry. We have over 1,000 customers around the world and continue to serve more than 75% of the Global Top 75 tyre manufacturers, such as Bridgestone, Michelin, Goodyear, Pirelli, Sumitomo, Hankook,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

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.

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。

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



ECONOMIC 经济



Anti-Corruption

报告期间、范围和框架

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。



FY2023 Target 2023年目标

To maintain zero incidents of corruption.
保持零腐败率。

FY2023 Performance 2023年完成情况

-  Target achieved. Zero incidents of corruption.
-  达成目标，未出现腐败现象。

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。

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.

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、从末端治”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，一套精细准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

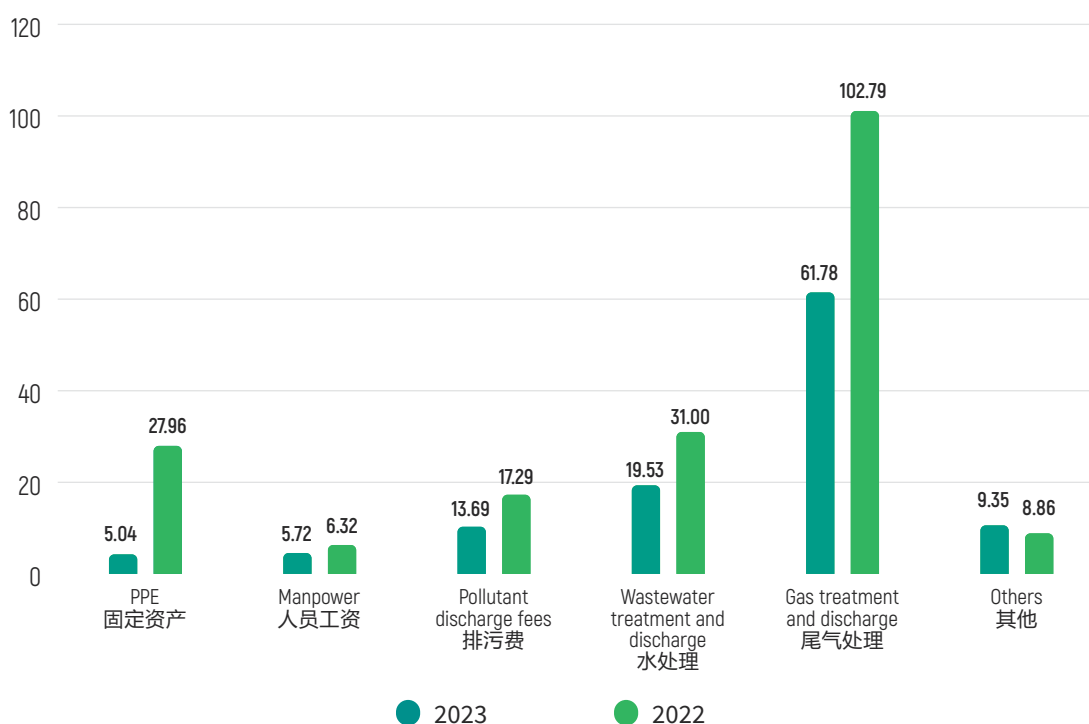
Our environmental management team comprises more than 130 employees (FY2022: 123 employees), all of whom are well-equipped with relevant environmental protection knowledge and experience. This includes 2 (FY2022: 2) postgraduate staff specialised in environmental protection and 9 (FY2022: 10) degree holders who are dedicated to the 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 improve our environmental protection capabilities. The following chart shows the breakdown of the Group's environmental protection expenditures. Our investment in environmental protection in FY2023 was RMB 115.11 million (FY2022: RMB 195.32 million). The reduction in environmental protection expenditure in FY2023 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130人（2022年：123人），其中环境专业研究生2人（2022年：2人），本科生9人（2022年：10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，2023年在环境保护方面的支出为1.1511亿元（2022年：1.9532亿元）。相比2022年，今年环保方面的固定资产投资和尾气处理费用均有减少。除了没有增加大的环保设备，固定资产投资减少；也因为采取了节能减排措施，使得废水、废气、固废的处理费用降低较多。

Group's environmental protection expenditures (RMB Million)
集团环境保护开支 (百万元人民币)



ENVIRONMENTAL 环境



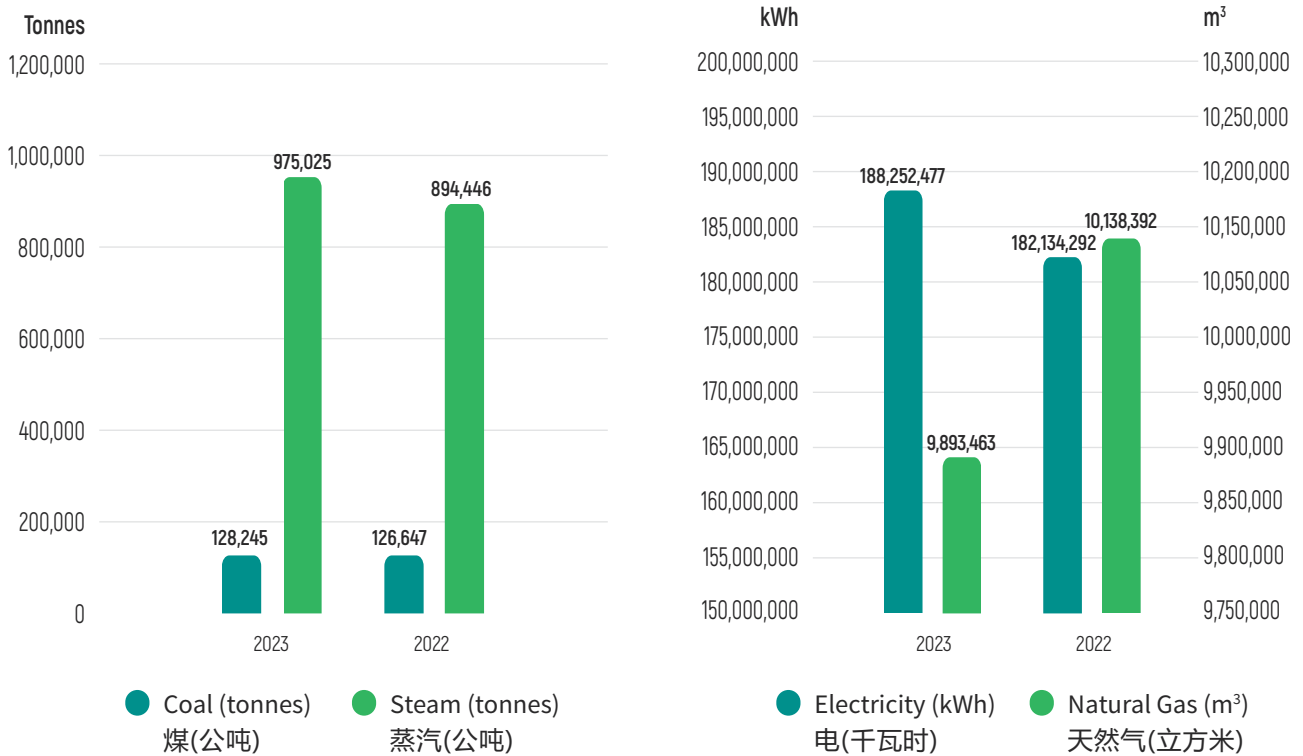
Our production uses coal, electricity, steam, and natural gas. Coal is used to produce the steam required for the desiccation process. The following two charts show our Group's total energy consumption and unit energy consumption in FY2022 and FY2023.

There was a reduction in total consumption of natural gas and total consumption of coal, electricity and steam gas increased in FY2023 due to the rise in production. The unit consumption for steam and electricity has decreased in FY2023 mainly due to the technological upgrading and replacements of the old energy-intensive equipment.

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。

下面两个图表列明了我集团2022和2023年度的总体能耗及单位能耗。由于产量的增加，2023年煤、电、蒸汽的总消耗相对2022年有所增加而天然气总消耗则减少。由于对旧有耗能大的设备进行技改和更换，2023年吨产品耗电、耗汽同比降低。

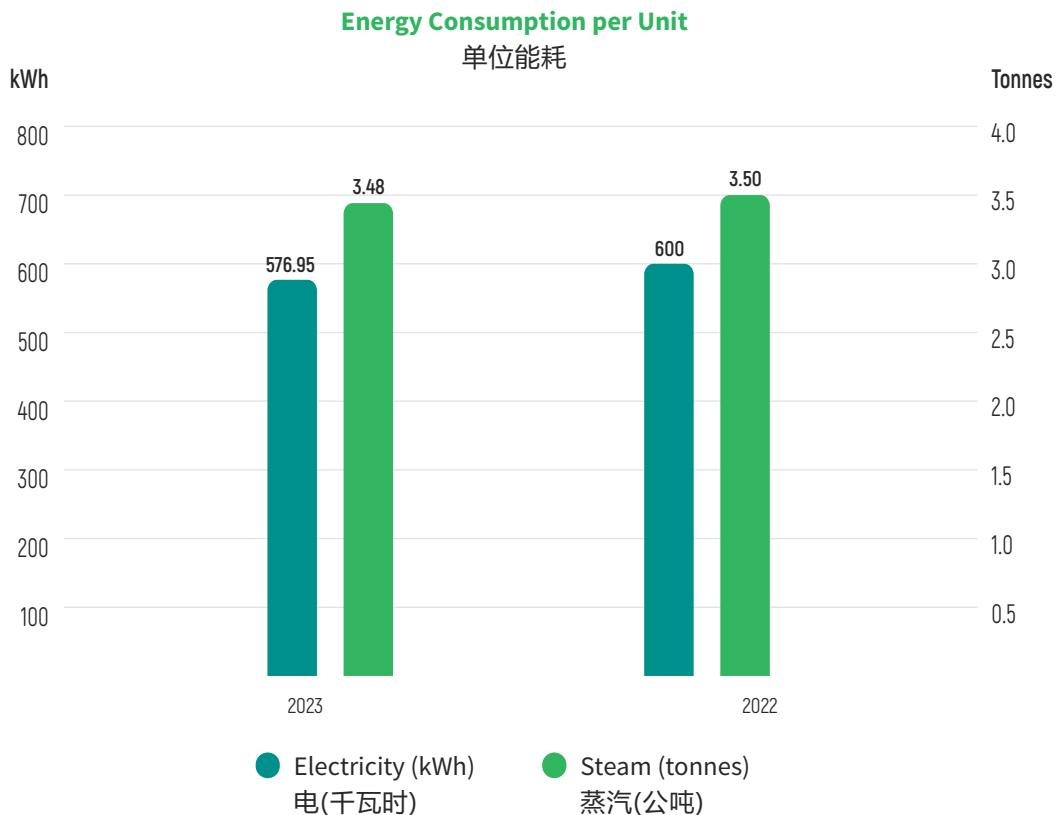
Total Energy Consumption 总体能耗



ENVIRONMENTAL 环境



Energy
能源



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 FY2023, Guangshun Heating produced 95.48 million kWh (FY2022: 90.22 million kWh) of electricity for internal consumption. They also produced 900,463 tonnes (FY2022: 834,059 tonnes) of steam of which 764,711 tonnes (FY2022: 721,571 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。

2023年，广舜热力发电9,548万度，全部用于集团内部消耗（2022年：9,022万度）；产蒸汽900,463吨（2022年：834,059吨），其中764,711吨（2022年：721,571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 in accordance 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. The new multi-effect evaporation device in Shandong Sunshine CBS workshop was put into use and further reduced the consumption of electricity and steam.
7. Conduct regular inspections on equipment with significant energy consumption to identify potential energy-saving opportunities and recommend improvement measures.
8. Enhance energy-saving capability, promote the use of advanced technology, upgrade obsolete production equipment, and improve waste heat utilization.

为如何做好能源管理工作，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。山东尚舜CBS车间新多效蒸发装置投入使用，大大降低了电和蒸汽的消耗。
- 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。
- 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。

FY2023 Target 2023年目标

To ensure that energy consumption decrease 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。

FY2023 Performance 2023年完成情况

- ✓ Target achieved.
Unit consumption for steam and electricity has decreased.
- ✓ 达到目标。
吨产品能源消耗下降，不超去年。

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

To ensure that energy consumption decrease 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。

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 FY2023, water consumption increased as compared to FY2022 due to the rubber chemical production increasing by 19,424 tonnes, representing a growth of 7.45%; while the steam production of Guang Shun also increased by 66,404.59 tonnes, reflecting an increase of 7.96%.

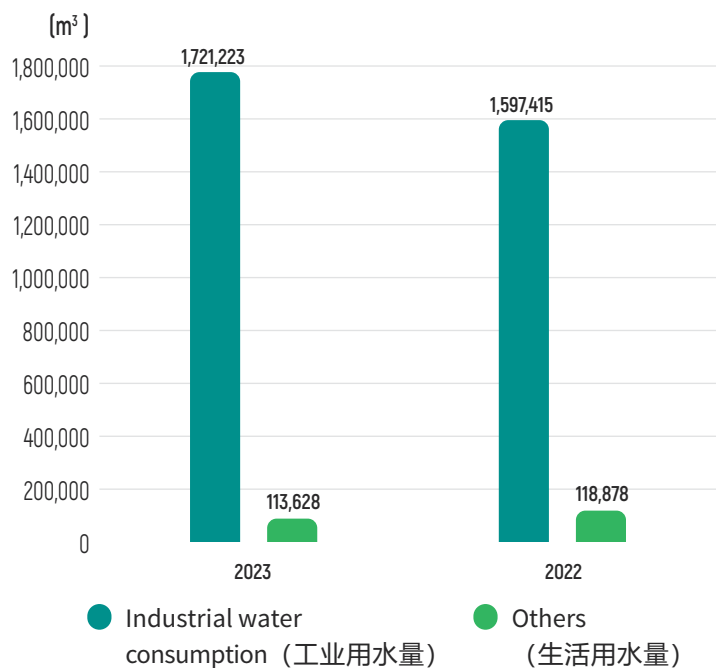
The unit water consumption reduced by 0.05 cubic meters from 3.18² cubic meters in FY2022 to 3.13 cubic meters in FY2023. We are committed to use water as efficiently as possible.

相比于2022年，2023年的工业用水量有所增加，一是因为橡胶助剂产量比2022年增加了19,424吨，增加7.45%；二是因为广舜热力产汽量比2022年增加66,404.59吨，增幅7.96%。

2023年单位商品工业耗水量为3.13立方，比2022年单位商品工业耗水量3.182立方，略微降低了0.05立方。同时，我们也承诺尽可能的有效用水。

Total Water Consumption

总耗水量



FY2023 Target

2023年目标

We aim to maintain the same level of water consumption per unit.
单位总耗水量不增加。

FY2023 Performance

2023年完成情况

- ✓ Target achieved. Unit water consumption reduced by 0.05 cubic meters.
- ✓ 达到目标。单位商品工业耗水量略微降低了0.05立方。

Short, Medium, and Long Term Target

短期、中期和长期目标

We aim to maintain the same level of water consumption per unit.
单位耗水量不增加。

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 reaction and bio-treatment will be done 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 set out a "Clean Production" programme which requires every employee to play a proactive role in enhancing our products effectively. At the same time, the programme endeavours to reduce the amount of wastewater discharge and to ensure that the pollutants are removed from the water before it is released into the external environment. The measures include adopting innovative technology with advanced production processes and equipment, using higher quality raw materials, and raising management skills.

Due to an increase in production and the adoption of water saving measures, the Group discharged a total of 703,437 (FY2022: 668,500) cubic meters of wastewater in FY2023. Unit wastewater discharge was 3.33 (FY2022: 3.50) cubic meters, and recycled wastewater was 1,321,174 (FY2022: 1,334,287) 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年以来，集团曾推行“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2023年共排放废水703,437立方米（2022年：668,500立方米），单位成品废水排放量为3.33立方米（2022年：3.50立方米），回收废水1,321,174立方米（2022年：1,334,287立方米）。

FY2023 Target 2023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。

FY2023 Performance 2023年完成情况

 Target partially achieved.
Unit wastewater discharged reduced, but the amount of wastewater recycled not increased.
 部分目标达到。
减少单位废水排放量，但没有完成增加废水回收量的目标。

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 CS₂ recovery facility. Our conversion recovery rate is consistently above 99.5%.

To further control exhaust gas and odour, we implemented the following initiatives in FY2023:

1. All direct exhaust gases after condensation from the 6PPD and IPPD main reaction devices are introduced into the RTO device in Shandong Sunsine, and this eliminates the risk of exceeding regional VOC standards. The installation of dehydration tail gas treatment facilities in DPG workshop has rectified the ammonia odour issue. The installation of the tail gas absorption tower in CBS workshop has improved absorption efficiency. The exhaust gas absorption tower of the evaporation hydrochloric acid tank in the TBBS workshop was replaced, and the regional blue smog problem was solved. The absorption tower leakage issue in TMTD workshop and water treatment in the MBTS workshop have been rectified. The issue of poor sealing in the water treatment regulating tank, coagulation tank, and hydrolysis acidification tank have been resolved and some of the exhaust gas-tight enclosures have been replaced. To address the odour issue caused by water sealing in the 2#RTO exhaust collection pipeline, which resulted in inadequate air induction, proper piping and drainage adjustments were made to ensure effective exhaust collection. Additionally, corrective measures were taken to rectify smoke leakage due to corrosion around the explosion-proof plate on top of the 1#RTO.

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CS₂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，2023年公司又实施了下列工程和措施：

1. 山东尚舜对6PPD和IPPD主体反应装置冷凝后直排废气全部布管引入RTO装置，彻底解决了区域性VOC超标风险。完成了DPG车间脱水二级尾气吸收塔安装，氨味问题明显下降。另外，新上了CBS车间尾气吸收塔，通过检测比对吸收效果大大提高。针对TBBS车间多效蒸发盐酸罐尾气吸收塔，进行了利旧更换，有效解决了区域蓝色烟雾问题。对MBTS车间水处理和TMTD车间废气吸收塔跑冒滴漏和效率受阻问题进行了整改。此外，对水处理调节池、絮凝池和水解酸化池密封不严问题也进行了整改，部分更换了废气密闭棚。针对2#RTO废气收集管道易水封造成引风不畅导致的异味问题进行了配管引流，确保了废气收集处理效果。最后，对1#RTO顶部防爆片周围因腐蚀漏烟问题也进行了整改。

ENVIRONMENTAL 环境



2. Weifang Sunsine carried out timely maintenance and repairment of the RTO system, promoted the continuous operation of the system and established operational control procedures for exhaust gas absorption towers throughout the facility. This includes daily measures to prevent accidental emissions, monitoring spray effectiveness, promptly identifying factors that may impact spray efficiency, and ensuring the stable operation of the absorption towers. By strengthening the management of environmental control facility operations, and conducting regular inspections of absorption towers, incineration systems, and exhaust sources, we ensure compliance with operational requirements for pollution control measures, leading to an improvement in overall operational effectiveness.

Since 2008, we have been 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 FY2023, Weifang Sunsine and Shandong Hengshun were certified for GB/T24001-2016/ISO14001:2015 environmental management system.

2. 潍坊尚舜采取了多方面措施来加强大气治理设施的运行管理。一方面，他们总结了长时间运行的经验，对RTO系统及时进行维护检修，以促进系统保持连续运行。另一方面，针对各处的尾气吸收塔，制定了操作和工艺控制规程，日常杜绝事故排放，并跟踪喷淋效果，及时发现影响喷淋效果的原因，以保持吸收塔的运行稳定。通过强化环保治理设施运行的管理，对吸收塔、焚烧系统以及尾气产生源随时巡检，确保满足治理措施的运行要求，从而提升了运行效果。

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。2023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。



ENVIRONMENTAL 环境



Emission 排放

Toxic gas emissions is monitored in real-time by the local Environmental Department and government authority. In FY2023, toxic gas emissions met the local standard of Shandong Province's "comprehensive emission standard of regional air pollutants" (DB37/2376-2019) (dust content $\leq 10\text{mg}/\text{m}^3$, SO₂ content $\leq 50\text{mg}/\text{m}^3$, nitrogen oxide content $\leq 100\text{mg}/\text{m}^3$).

In FY2023, the recycling volume of sulphur is 12,900 tonnes (FY2022: 12,903 tonnes), and the recycling rate is as high as 99.5% (FY2022: 99.5%). The economic value of sulphur recycled amounted to RMB 15.03 million (FY2022: 10.25 million), recycled sulphur dioxide in FY2023 is 3,509 tonnes (FY2022: 3,318 tonnes), the economic value of sulphur dioxide recycled amounted to RMB 10.89 million (FY2022: 11.84 million).

Greenhouse gas (GHG) emissions

The Group is committed to reducing its carbon footprint and we have begun measuring and reporting our greenhouse gas emissions for the first time. In FY2023, the Group produced a total of 319,521 tonnes of Scope 1 GHG emissions and 126,877 tonnes of Scope 2 GHG emissions.

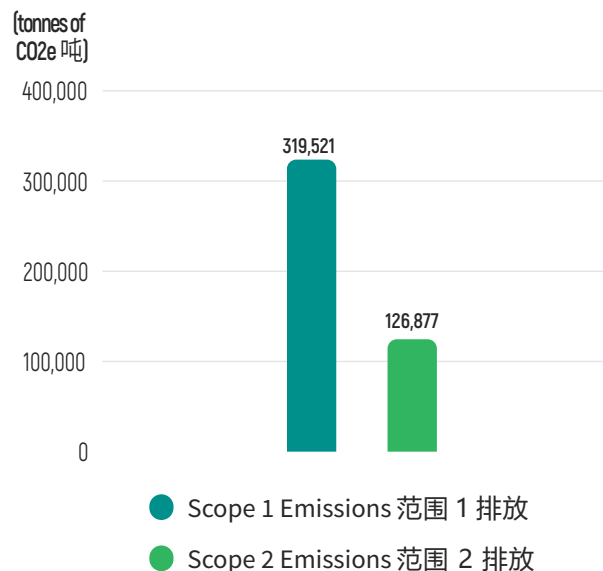
所有的废气排放口都安装了实时在线监控设备，此设备直接与当地政府及环保局连线。在2023年，大气污染物排放量符合山东省地方标准《区域性大气污染物综合排放标准》(DB37/2376—2019) (颗粒物含量 $\leq 10\text{mg}/\text{m}^3$, SO₂含量 $\leq 50\text{mg}/\text{m}^3$, 氮氧化物含量 $\leq 100\text{mg}/\text{m}^3$)。

2023年硫磺的循环使用量是12,900吨(2022年: 12,903吨), 循环率高达99.5%(2022年: 99.5%)。回收硫磺经济效益达到人民币1,503万元(2022年: 1,025万元)。回收二硫化碳3,509吨(2022年: 3,318吨), 经济效益1,089万元(2022年: 1,184万元)。

温室气体排放数量列表

集团致力于减少碳足迹，我们已开始测量和报告我们的温室气体排放量。2023年，集团共产319,521吨二氧化碳当量范围1排放及126,877吨二氧化碳当量范围2排放。

GHG Emissions (Scope 1 & Scope 2)
温室气体排放量 (范围 1 & 2 排放)



ENVIRONMENTAL 环境

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

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 device. Hazardous waste is disposed and handled internally within our capacity, while those requiring specialized treatment are handled by qualified third-party disposal agencies.

In FY2023, the Group generated a total of 8,216.77 tonnes (FY2022: 9,448.33 tonnes) hazardous waste, handled a total of 8,346.91 tonnes hazardous waste (FY2022: 9,620.20 tonnes), 101.58% (FY2022: 101.82%) of waste disposed in compliance with regulatory requirements. A total of 666.60 tonnes of non-hazardous waste (FY2022: 785.76 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 615.15 tonnes (FY2022: 612.23 tonnes).

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。

2023年，集团共产生危险废物8,216.77吨（2022年：9,448.33吨），处置危险废物8,346.91吨（2022年：9,620.20吨），合规处置率101.58%（2022年：101.82%）。共产生非危险废物666.60吨（2022年：785.76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615.15吨（2022年：612.23吨）。

FY2023 Target 2023年目标

Our goal is to keep the toxic gas emission within stipulated regulatory limits.
毒气排放量在政府允许范围内。

FY2023 Performance 2023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

FY2024 Target 2024年目标

Our goal is to meet toxic gas emission regulatory limits.
毒气排放量在政府允许范围内。

SOCIAL 社会

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.



Employment, Diversity and Equal Opportunity

雇佣，多元化和平等机会

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 9 Board members, including 1 female Board member, with a percentage of 11% (FY2022: 14%).

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9名，包含1名女性董事，占比11%（2022年：14%）。

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. The ethnic minority workforce accounts for 0.71% (FY2022: 0.64%) of the total employee population. 100% (FY2022: 100%) of employees attend training on topics related to anti-discrimination. There were no incidents 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% of our management employees are recruited in China. We are committed to providing competitive remuneration and benefits to our employees. The company is providing retirement funds, medical fees, work-related injury fees, maternity benefits, unemployment insurance, and housing provident funds for 100% (FY2022: 100%) of the employees. The employees' salaries are consistently above the market rate in the provinces we operate in.

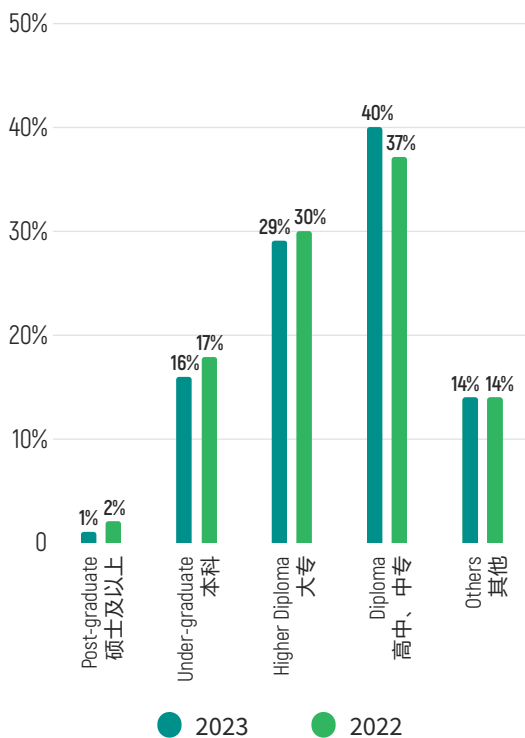
We are also committed to safeguarding our employees' health and safety against any potential workplace hazards.

中国尚舜承诺无种族，性别，宗教和少数名族歧视雇佣宗旨。少数民族员工占员工总数的0.71%（2022年：0.64%）。公司员工接受反歧视议题培训的比例达到100%（2022年：100%）。在报告期限内无歧视案例。我们杜绝办公室或是工厂的未成年雇佣。

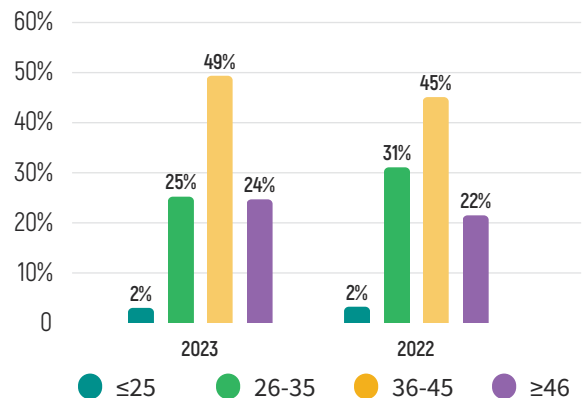
我们倾向于聘请中国当地人员。在中国当地雇佣的高管比例为100%。我们承诺对员工提供具有竞争性的工资和福利。为员工缴纳养老、医疗、工伤、生育和失业保险及住房公积金，享受这些社会福利的员工达到100%（2022年：100%）。公司与工会签订了工资集体协议。员工工资在当地始终保持较高的水平。

我们也承诺在危险工作环境下会保护员工健康与安全。

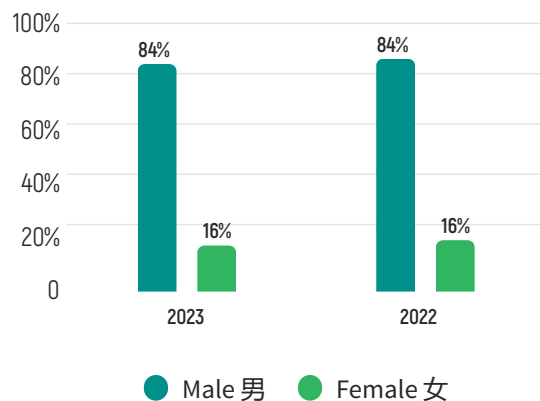
Qualifications 学历



Age 员工年龄



Gender 性别



SOCIAL 社会



Employment, Diversity and Equal Opportunity

雇佣，多元化和平等机会

Even though we operate in a male-dominated industry, 16% (FY2022: 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.

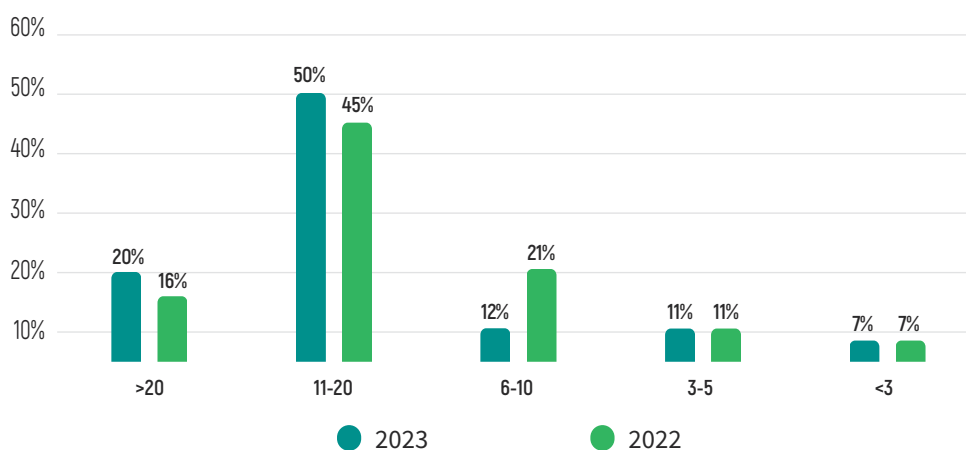
There are 124 (FY2022: 125) management employees (exclusive of board members) and 16 (FY2022: 15) out of which are female senior management employees, with a percentage of 12% (FY2022: 12%). There are 2 ethnic minority senior management employees (FY2022: 2), with a percentage of 1.6% (FY2022: 1.6%).

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%（2022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124名（2022年：125名），其中，女性管理人员有16名（2022年：15名），占12%（2022年：12%），少数民族管理人员有2名（2022年：2名），占比1.6%（2022年：1.6%）。

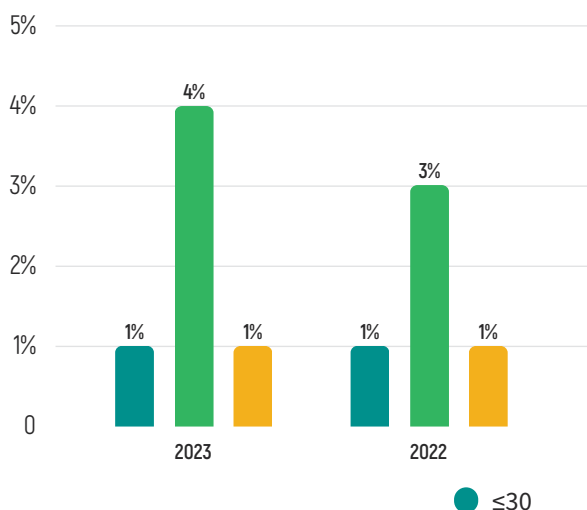
Length of service (no. of years)

在职年数



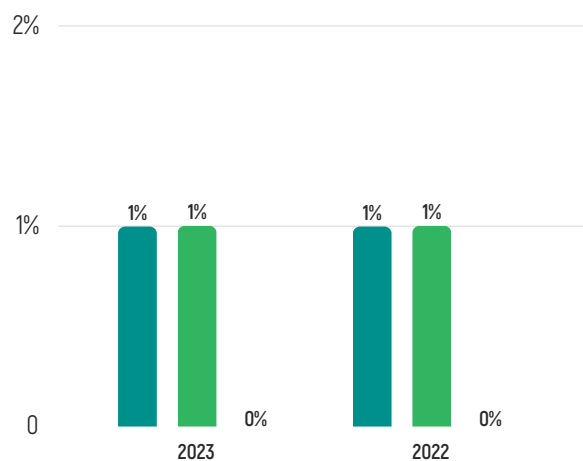
Employee turnover by age

离职员工按年龄分类



New hire by age

新员工按年龄分类

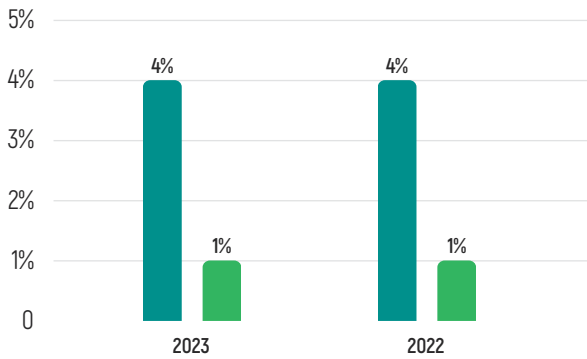


SOCIAL
社会

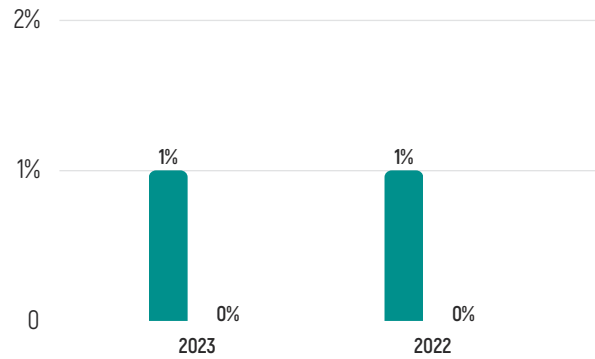
Employment, Diversity and Equal Opportunity
雇佣, 多元化和平等机会



Employee turnover by gender
新员工按性别分类



New hire by gender
新员工按性别分类



● Male 男 ● Female 女

FY2023 Target
2023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。

FY2023 Performance
2023年完成情况

- ✔ Target achieved.
No discrimination based on race, gender, religion, or against employment of ethnic minorities.
- ✔ 达到目标。
未发生种族、性别、宗教和少数民族歧视雇佣。

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

1. 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。
2. No Hiring of underage staff.
招聘童工数量: 0人。
3. Zero cases of compulsory labour and mandatory overtime.
发生强迫劳动和强迫加班事故: 0起。
4. Zero cases of harassment complaints.
发生骚扰投诉事故: 0起。

SOCIAL 社会



Training And Education 培训与教育



We provide training to our employees for their skill and knowledge enhancement. The total training hours provided were 21,159 hours in FY2023 (FY2022: 18,641 hours), while the total training hours provided at the company level were 5,690 hours (FY2022: 5,438 hours).

我们注重员工培训，以使得员工的潜能得到提高。2023年总培训时间为21,159小时（2022年：18,641小时），其中，公司级培训时间为5,690小时（2022年：5,438小时）。

The following is a list of our training programme for FY2023:

以下是2023年员工培训内容：

- | | |
|--|-------------|
| ● New staff orientation (workers and management) | ● 新员工入厂培训 |
| ● Professionalism | ● 新入职管理人员培训 |
| ● Organisational culture | ● 职业化素养 |
| ● Management qualification | ● 企业文化 |
| ● Innovation | ● 管理素质 |
| ● Mindset change | ● 创新专案 |
| ● Occupational health | ● 转变观念 |
| ● Safety management | ● 职业健康 |
| ● Quality management | ● 安全管理 |
| ● Environmental case study | ● 品质管理 |
| ● Production management | ● 环保专案 |
| ● Equipment management | ● 生产管理 |
| ● Financial management | ● 设备管理 |
| ● Internal transfer training | ● 财务管理 |
| ● Information and cybersecurity | ● 转岗培训 |
| ● Risk prevention and control | ● 信息与网络安全 |
| ● Labour and human rights | ● 风险防控 |
| ● Sustainable procurement | ● 劳动与人权 |
| ● Business ethics | ● 可持续采购 |
| ● Special topic on anti-discrimination | ● 商业道德 |
| | ● 反歧视专题 |

SOCIAL

社会

Training And Education

培训与教育





	FY2023		FY2023	
	Male 男性	Female 女性	Male 男性	Female 女性
Number of Employees 员工人数	1,781	335	1,846	347
Total Training Hours 总培训时数	17,810	3,349	15,691	2,950
Average Training Hours per Employee 每位员工的平均培训时间	10	10	9	9

	FY2023		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	133	1,981	132 ³	2,058
Total Training Hours 总培训时数	3,132	18,027	1,971	16,670
Average Training Hours per Employee 每位员工的平均培训时间	23	9	15	8

FY2023 Target 2023年目标

FY2023 planned company level training time is not less than 3,500 hours.
2023年计划培训时间不少于3,500小时。

FY2023 Performance 2023年完成情况

 Target achieved.
 达到目标。

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

Planned company level training time is not less than 3,600 hours.
计划培训时间不少于3,600小时。

³ Figures has been restated due to correction.

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组织的安全培训、考核，取得了相应的资格证书。



SOCIAL 社会

Occupational Health and Safety 健康和安



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，配备完善了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，并加大检维修、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”群众性隐患自查活动，查改各种安全隐患，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 社会



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 FY2023, we actively worked on the local Emergency Management Bureau's request and successfully completed a comprehensive emergency response drill exercise for hazardous chemicals.

In FY2023, 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。

2023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。

2023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《生产区使用手机管理制度》、《高危场所人员聚集防控安全管理制度》《设备及管线打开作业安全管理制度》，对《消防设施、器材管理制度》重新进行了修订完善。



SOCIAL 社会

Occupational Health and Safety

健康和安



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.

Since 2008, Shandong Sunshin obtained the occupational health and safety management system certification and has continuously strengthened the production safety system to be more advanced, practical, and effective. In FY2023, Weifang Sunshin 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.

We are pleased to share that no major safety-related incident took place in FY2023 (FY2022: Nil).

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。

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。

2023年发生的重大安全事故0件（2022年:0件）。

FY2023 Target 2023年目标

No major safety-related incident.
不发生重大安全事故。

FY2023 Performance 2023年完成情况

- Target achieved.
- 达到目标。

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

1. No major safety-related incident.
不发生重大安全事故。
2. No work-related ill health case.
全年职业病发生率为0。
3. Work-related injury rates ≤ 0.5%.
全年因工负伤率 ≤ 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 & 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，对高危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。对高危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块，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。



SOCIAL 社会

Product Quality and Security

产品质量与安全



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. In FY2023, we have further improved the quality management level of rubber chemical of Shandong Sunsine and Shandong Hengshun, and attained IATF 16949 system certification for the design and production of rubber chemicals.



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。山东尚舜及山东恒舜橡胶助剂的设计与生产于2023年均通过了IATF 16949体系认证，使尚舜的质量管理水平进一步提升。

FY2023 Target 2023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。

FY2023 Performance 2023年完成情况

1.  Target achieved. There were no major incidents; except for 6 negative feedback received from customers.
达到目标。2023年没有发生质量责任大事故；发生一般客户不良反馈 6 起 完成了年度质量目标。
2. 

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。

SOCIAL 社会

Customer Satisfaction 客户满意度

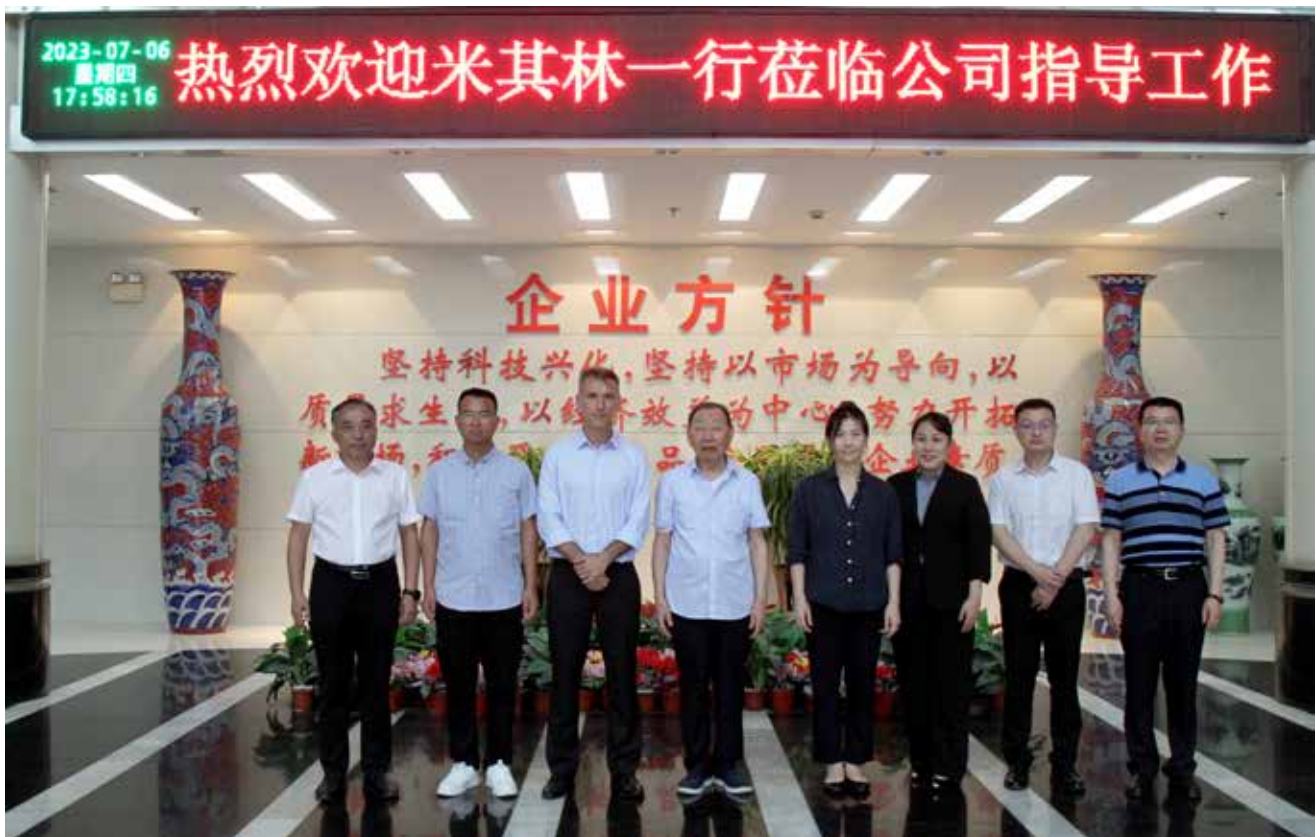


Initiatives designed to increase customer satisfaction:

- 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.
- Conduct a customer survey 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.

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。
- 每半年进行一次顾客满意度调查，对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。



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 FY2023. We passed all audits. 2023年通过视频或实地访问并审核过我们的客户有：

- | | |
|--|-------------------|
| 1. Hankook Tire China Co., Ltd. | 1. 韩泰轮胎有限公司 |
| 2. Kenda Global Holding | 2. 台湾建大 |
| 3. Shandong Haohua Tire Co., Ltd. | 3. 山东昊华轮胎有限公司 |
| 4. Suzhou Hinos Industrial Co., Ltd. | 4. 苏州希诺斯实业有限公司 |
| 5. Sumitomo Rubber (Changshu) Co. Ltd. | 5. 住友橡胶（常熟）有限公司 |
| 6. Kumho Tire (Tianjin) Co., Inc. | 6. 锦湖轮胎(天津)有限公司 |
| 7. Shandong Linglong Tire Co., Ltd. | 7. 山东玲珑轮胎股份有限公司 |
| 8. Michelin | 8. 米其林总部 |
| 9. Bridgestone (China) Investment Co., Ltd. | 9. 普利司通（中国）投资有限公司 |
| 10. Weihai Runtong Rubber Co., Ltd. | 10. 威海市润通橡胶有限公司 |
| 11. Nanjing Odyssey Chemical Industry Co., Ltd. | 11. 南京奥诚化工有限公司 |
| 12. Zhongce Rubber Group Co., Ltd. | 12. 中策橡胶集团有限公司 |
| 13. Toyo Tire (Zhucheng) Co., Ltd. | 13. 通伊欧轮胎（诸城）有限公司 |
| 14. Chaoyang Langma Tires Co., Ltd. | 14. 朝阳浪马轮胎有限责任公司 |
| 15. Wanli Tire Co., Ltd. | 15. 万力轮胎股份有限公司 |
| 16. Pirelli Tyre Co., Ltd. | 16. 倍耐力轮胎有限公司 |
| 17. Qingdao Doublestar Tire Industrial Co., Ltd. | 17. 青岛双星轮胎工业有限公司 |
| 18. Anhui Zhongding Sealing Parts Co., Ltd. | 18. 安徽中鼎密封件股份有限公司 |
| 19. Cordiant Tyre | 19. 俄罗斯斯卡迪安特轮胎 |
| 20. Otani Tire Co., Ltd. | 20. 泰国奥塔尼轮胎 |
| 21. Dalian Goodyear Tyre Co. | 21. 大连固特异轮胎有限公司 |
| 22. Giti Tire (Anhui) Company Ltd. | 22. 安徽佳通轮胎有限公司 |

SOCIAL 社会



Customer Audits 客户审核



FY2023 Target 2023年目标

1. Ensure that it is market-oriented, and customer focused, and enhance customer satisfaction and loyalty, with overall customer satisfaction ≥ 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 ≥ 96 。
2. To achieve a 100% passing rate for customers' audits.
确保客户审核通过率 100%。

FY2023 Performance 2023年完成情况

-  Target Achieved
 1. Customer satisfaction rate of 96.03%.
 2. Passed all 22 customers' audits.
-  达到目标。
 1. 全年客户综合满意度 96.03%
 2. 22家客户审核全部通过。

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 ≥ 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 ≥ 96 。
2. To achieve a 100% passing rate for customers' audits.
确保客户审核通过率 100%。

SOCIAL 社会



Innovation
自主创新



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。

SOCIAL 社会



As of the end FY2023, the Group had 57 national patents (FY2022: 53), including 39 invention patents (FY2022: 35) and 18 utility model patents (FY2022: 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 cooperation, to achieve mutual support and common development on both academic and industrial levels.

至2023年底，集团拥有国家专利57（2022年:53）项，其中，发明专利39（2022年:35）项，实用新型专利18（2022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.

At the end of 2023, the project was completed and is currently in trial stage for production. The Management believes that the production will officially commence in the second half of 2024.

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。

截至2023年年底，此项目已建设完毕，正在进行试生产。管理层预计此项目将于2024年下半年正式投产。

SOCIAL 社会

Local Communities

当地社区



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 FY2023 supported 59 needy students with their education needs (FY2022: 56). In total, from 2011 to 2023, the Group has supported more than 570 needy students through RMB 1.761 million in education grants.

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

During the year, we donated RMB 2.11 million (FY2022: RMB 1.97 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。2023年，资助贫困生59名（2022年：56名），自2011年至2023年，已累计资助贫困学生570余名，共发放助学金176.1万多元，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）。

本年度，集团共捐助人民币211万元（2022年：197万元）。

FY2023 Target 2023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。

FY2023 Performance 2023年完成情况

 Target achieved.
 达到目标。

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

On 28 February 2023, safe production “Hundred Days Action”- A comprehensive emergency rescue drill for ShanXian Chemical Industrial Park was held at Sunsine Chemical. Sunsine Chemical and the representatives from ShanXian Chemical Industrial Park participated in this drill.

2023年2月28日，安全生产“百日行动”单县化工园区应急救援综合演练在尚舜化工举行。尚舜化工与来自单县化工园区的企业代表参加了本次演练。



On 28 August 2023, Sunsine Chemical organised “ShanXian Charity Federation Sunsine Chemical 2023 Undergraduate Bursary Distribution Ceremony” and contributed RMB 3,000 each to a total of 59 scholars to help them achieve their dreams of studying in prestigious universities.

2023年8月28日，在尚舜化工举行了“单县慈善总会尚舜化工2023年大学新生救助金发放仪式”，尚舜化工为品学兼优的59名大学新生每人捐助3000元，助力大学生们圆梦理想高校，实现自己的人生梦想。



On 28 August 2023, Deputy Secretary of the Party Committee, Xu Jun, represented Sunsine Chemical and donated RMB 1 million to ShanXian Charity Federation to further aid the philanthropy development undertaken by ShanXian. Zhang Tao, the Director of the ShanXian Civil Affairs Bureau, accepted the donation on behalf of the ShanXian Charity Federation.

2023年8月28日，在尚舜化工会议室，党委副书记徐均代表尚舜化工向单县慈善总会捐款100万元，助力单县公益慈善事业发展再上新台阶。单县民政局局长张涛代表县慈善总会接受捐赠。



SOCIAL

社会

Local Communities

当地社区



Group Awards in 2023

2023年集团所获荣誉

No. 序号	Name of awards 荣誉名称	Awarding agency 颁发机构
1	Manufacturing Industry Single Champion Demonstration Enterprise (Years 2023 to 2025) 制造业单项冠军示范企业（2023年-2025年）	Ministry of Industry and Information Technology China Federation of Industrial Economics 工业和信息化部 中国工业经济联合会
2	Special Contribution towards 2022 Economic Development 2022年度经济发展特别贡献奖	CPC Shanxian Committee, Shanxian People's Government 中共单县县委 单县人民政府
3	Provincial Award in Youth Care 全省关心下一代工作先进集体	Shandong Province Youth Affairs Committee. Office of the Shandong Province Committee for Cultural and Ethical Progress 山东省关心下一代工作委员会 山东省精神文明建设委员会办公室
4	Outstanding Supplier of the Year 2023 2023年度优秀供应商	Rubber Products Branch of China Rubber Industry Association 中国橡胶工业协会橡胶制品分会
5	Leshan Star-Rated Enterprise for Assisting the Disabled 乐山助残星级企业	Shanxian Civilization Office Shanxian Disabled Persons' Federation 单县文明办 单县残疾人联合会
6	Top 50 Enterprises in Shandong Chemical Industry Development Potential Index for 2023 2023山东化工发展潜力指数50强企业	China Chemical Industry Information Association Shandong Province Chemical Industry Information Association 中国化工情报信息协会 山东省化工情报信息协会
7	Top 50 Enterprises in Comprehensive Strength of Shandong Rubber Industry for the Years 2021-2022 2021年-2022年山东省橡胶行业综合实力50强企业	Shandong Rubber Industry Association 山东省橡胶行业协会
8	Advanced Unit in Charity Donations for the Year 2022 2022年度爱心捐赠先进单位	Shanxian People's Government 单县人民政府
9	Star Enterprise for Charity Assistance to the Disabled 爱心助残明星企业	Heze Disabled Persons' Federation 菏泽市残疾人联合会
10	Star of Charity Assistance to the Disabled 爱心助残之星	Shandong Provincial Welfare Foundation for the Disabled 山东省残疾人福利基金会
11	Unit of Charitable Assistance to the Disabled 爱心助残单位	Shandong Provincial Welfare Foundation for the Disabled 山东省残疾人福利基金会

SOCIAL

社会



Local Communities

当地社区

No. 序号	Name of awards 荣誉名称	Awarding agency 颁发机构
12	2023 China's Top 500 Petroleum and Chemical Enterprises 2023中国石油和化工企业500强	China Chemical Enterprise Management Association, Chemical Management Magazine Co., Ltd. 中国化工企业管理协会《化工管理》杂志社有限公司
13	2023 China's Top 100 Petroleum and Chemical Private Enterprises (Sales Revenue) 2023中国石油和化工民营企业百强（销售收入）	China Petroleum and Chemical Industry Federation 中国石油和化学工业联合会
14	2023 Petrochemical Enterprise Top 500 (Comprehensive) (Ranked 277) 2023中国石油和化工企业500强（综合类）第277名	China Chemical Enterprise Administration Association, Chemical Management Magazine Co., Ltd. 中国化工企业管理协会《化工管理》杂志社有限公司
15	Top 500 Listed Companies in China's Petroleum and Chemical Industry for 2023 2023中国石油和化工上市公司500强 第49名	China Chemical Enterprise Administration Association Chemical Management Magazine Co., Ltd. 中国化工企业管理协会《化工管理》杂志社有限公司
16	2022 Specialist Chemical Enterprise Top 100 (Ranked 33) 2022专业化学产品企业100强第33名	China Chemical Enterprise Administration Association, Chemical Management Magazine Co., Ltd. 中国化工企业管理协会《化工管理》杂志社有限公司
17	2023 China Top 100 Fine Chemical 2023年度中国精细化工百强企业	National Fine Chemical Raw Material and Intermediates Industry Cooperation Group, China Chemical Information Association 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
18	2023 Most Transparent Company Award (Materials) 2023年度最透明企业奖（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 China Environment News Council
- 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
- 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
- 中国环境报理事会会员单位
- 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

GOVERNANCE 治理

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 FY2023, please refer to our Annual Report 2023, on pages 31 to 54.

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2023年企业治理成绩和实践，请参阅2023年年报第31-54页。



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 FY2023.

如上所述，我们在2023年的废水和废气排放量在政府规定的限额内。

FY2023 Target 2023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。

FY2023 Performance 2023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。

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

企业风险管理

Enterprise Risk Management (“ERM”) is an integral part of good corporate governance as well as resource management. A thorough and comprehensive ERM framework enables China Sunsine 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 45 to 47.

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2023年年报第45-47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 FY2023, 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2023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。

FY2023 Target 2023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。

FY2023 Performance 2023年完成情况

 Target Achieved.
 达到目标。

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 Task Force on Climate-related Financial Disclosures for our climate-related disclosures, which should be read together with our Sustainability Report, Corporate Governance and Annual Reports FY2023.

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 oversees and manages climate-related matters in alignment with the Task Force on Climate-related Financial Disclosures Recommendations.

The Board is ultimately responsible for oversight of the Group's climate-related issues across the operations and has established a Sustainability Steering Committee and Sustainability Task Force which consists 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 2023 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 Sustainability Steering Committee (led by 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. 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 all climate risks are integrated into the company's Enterprise Risk Management 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 Sunline 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



Strategy Pillar 气候战略支柱

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"> 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. 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. 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。 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。 	

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
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"> 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. 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. 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。 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。 	
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"> 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. Energy Efficiency Measures: Implement energy efficiency measures to reduce carbon emissions. This may include upgrading equipment, adopting energy-efficient technologies, and optimizing energy consumption across operations. Renewable Energy Adoption: Invest in and prioritize the use of renewable energy sources to reduce reliance on fossil fuels. This can help lower the overall carbon intensity of operations. 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。 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。 	

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	<p>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.</p> <p>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。</p>		
Response 应对措施	<ul style="list-style-type: none"> • 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. • 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. • 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. • 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. • 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。 • 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。 • 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。 • 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。 		

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"> 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. 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. 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。 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。 	
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"> 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. Sustainable Procurement Policies: Develop and implement sustainable procurement policies that prioritize suppliers with strong environmental and social sustainability practices. Include sustainability criteria in supplier selection processes. 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. 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。 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。 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。 	

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 and we are working towards integrating potential climate-related risks into our ERM programme to ensure relevant risks and opportunities can be identified, strategically assessed, and managed through our 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，并且我们正在朝着将潜在的气候相关风险整合到我们的ERM程序中努力，以确保相关风险和机会可以被识别、战略性评估并通过我们的风险管理过程管理。

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 programs 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和更新策略

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, 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 (in kWh)
- Energy consumption per unit for electricity (kWh), coal (tonnes), and steam (tonnes)
- Scope 1 and Scope 2 GHG emissions (tCO₂-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 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. 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 Sunsine has set climate-related targets as follows:

- Energy: To ensure that energy consumption decreases and does not exceed that of last year.
- 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: To meet toxic gas emission regulatory limits.

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。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：确保单位产品能源消耗不超去年，并在此基础上有下降。
- 水源：力争保持单位产品水消耗水平不超过去年。
- 废水排放：旨在减少单位产品废水排放并增加废水回收量。
- 碳排放：达到有毒气体排放监管限值。

GRI STANDARDS CONTENT INDEX

全球报告倡议组织准则指引

Statement of use	China Sunshine Chemical Holdings Ltd. has reported the information cited in this GRI content index for the period 1 January 2023 to 31 December 2023 in accordance with the GRI Standards.
GRI 1 used	GRI 1: Foundation 2021

GRI Standards 2021	Disclosure	Location	Reason for Omission
General Disclosures			
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 20, 28, 39	
	2-5 External assurance	None	
	2-6 Activities, value chain and other business relationships	AR 22-23, 26-27	
	2-7 Employees	SR 34-37	
	2-8 Workers who are not employees	SR 34-37	
	2-9 Governance structure and composition	SR 10	
	2-10 Nomination and selection of the highest governance body	AR 38-41	
	2-11 Chair of the highest governance body	AR 16	
	2-12 Role of the highest governance body in overseeing the management of impacts	AR 34-37	
	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 31-32	
	2-16 Communication of critical concerns	SR 22	
	2-17 Collective knowledge of the highest governance body	AR 53	
	2-18 Evaluation of the performance of the highest governance body	AR 38-41	
	2-19 Remuneration policies	AR 42-43	
	2-20 Process to determine remuneration	AR 42-43	
	2-21 Annual total compensation ratio	AR 44-45	
	2-22 Statement on sustainable development strategy	SR 11	
	2-23 Policy commitments	SR 34	
	2-24 Embedding policy commitments	SR 34	
	2-25 Processes to remediate negative impacts	SR 22	
	2-26 Mechanisms for seeking advice and raising concerns	SR 12-15, 22	
	2-27 Compliance with laws and regulations	SR 58-59	
	2-28 Membership associations	SR 57	
	2-29 Approach to stakeholder engagement	SR 12-15	
	2-30 Collective bargaining agreements	None	

GRI STANDARDS CONTENT INDEX

全球报告倡议组织准则指引

GRI Standards 2021	Disclosure	Location	Reason for Omission
Material topics			
GRI 3: Material Topics 2021	3-1 Process to determine material topics	SR 16-17	
	3-2 List of material topics	SR 17	
Economic Performance			
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	
Anti-corruption			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 22	
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	SR 22	
	205-2 Communication and training about anti-corruption policies and procedures	SR 22	
	205-3 Confirmed incidents of corruption and actions taken	SR 22	
Energy			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 25-27	
GRI 302: Energy 2016	302-1 Energy consumption within the organization	SR 25-26	
	302-3 Energy intensity	SR 26	
Water			
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 28-29	
	303-5 Water consumption	SR 28-29	

GRI STANDARDS CONTENT INDEX

全球报告倡议组织准则指引

GRI Standards 2021	Disclosure	Location	Reason for Omission
Emission			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 32	
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	SR 32	
	305-2 Energy indirect (Scope 2) GHG emissions	SR 32	
Employment, Diversity and Equal Opportunity			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 34-37	
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	SR 36-37	
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	SR 34-37	
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	SR 34-37	
Occupational Health and Safety			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 40-43	
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	SR 40-43	
	403-2 Hazard identification, risk assessment, and incident investigation	SR 40-43	
	403-3 Occupational health services	SR 40-43	
	403-4 Worker participation, consultation, and communication on occupational health and safety	SR 40-43	
	403-5 Worker training on occupational health and safety	SR 40-43	
	403-6 Promotion of worker health	SR 40-43	
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	SR 40-43	
	403-8 Workers covered by an occupational health and safety management system	SR 40-43	
	403-9 Work-related injuries	SR 43	
	403-10 Work-related ill health	SR 43	

GRI STANDARDS CONTENT INDEX

全球报告倡议组织准则指引

GRI Standards 2021	Disclosure	Location	Reason for Omission
Training and Education			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 38-39	
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	SR 38-39	
	404-2 Programs for upgrading employee skills and transition assistance programs	SR 38-39	
	404-3 Percentage of employees receiving regular performance and career development reviews	SR 38-39	
Local Communities			
GRI 3: Material Topics 2021	3-3 Management of material topics	SR 54-56	
GRI 413: Local communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	SR 54-56	
	413-2 Operations with significant actual and potential negative impacts on local communities	SR 54-56	

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？



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