

### CHINA SUNSINE CHEMICAL HOLDINGS LTD.



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徐 承 秋

# Chairman's Message 主席致辞

# Putting people first, Practising mindfulness for the benefit of others

In 2022, we were confronted with the COVID-19 pandemic, dealt with intensified market competition, carried out our expansion plan and strived to maximise our profitability. We experienced a year of great challenges and achieved remarkable results. Here, on behalf of the Board of Directors, I am pleased to present the Sustainability Report of China Sunsine Chemical Holdings Ltd. ("China Sunsine", together with its subsidiaries, collectively the "Group") for the financial year ended 31 December 2022 ("FY2022").

The current global economic situation is becoming increasingly gloomy, and the dark clouds will not pass quickly in the short term. The Ukraine-Russia conflict continues to deteriorate, with the possibility of further escalation. Raw material prices continue to fluctuate, posing challenges to enterprises in their cost control abilities. In the meantime, the competition within the rubber chemical industry has become more intense.

In the face of such a complex and uncertain external environment, we adhere to the concept of realizing customer value and social benefits, uphold a "bottom-line thinking" approach, and carry forward the spirit of hard work and entrepreneurship. Relying on the advantages we have accumulated over the years in economies of scale, strong financial position, brand name, superior quality, and high standards

2022年,我们战疫情、拼市场、抓建设、争效益,在倍经考验中度过了这一年,并取得了意想不到的骄人业绩。值此机会,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2022年12月31日的2022财年的《可持续发展报告》。

当前全球经济日益严峻,下行压力短期内难以缓解;俄乌冲突继续恶化,存在进一步升级的可能;原材料价格持续波动,对企业成本的控制提出了挑战;同行业竞争更加激烈。

面对如此复杂和不确定的外部环境,我们秉持实现"客户价值和社会价值"的理念,坚守"底线思维",发扬艰苦创业精神,凭借我们多年来形成的规模、资金、品牌、质量、环保、安全及市场优势,营业收入持续走高、市场领先地位进一步巩固。2022年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,在广大客户中的影响力进一步提升,在同行业中树起了更大的竞争优势。

# Chairman's Message 主席致辞



in environmental protection and safety, the Group's revenue continued to increase, and our market leadership position was further strengthened. In 2022, the Group remained as the world's largest rubber accelerators producer and China's largest rubber chemical enterprise. Our brand awareness among our broad customer base and the greater competitive advantages within the industry were further enhanced.

The Group continues to expand domestic and export markets and is committed to product diversification. Guided by the "Higher sales volume leading to higher production, which in turn stimulates even higher sales" (also called "Sales and Production Equilibrium") strategy, we strive to build a sound market and products system and implement project expansion plans to support this effort.

In 2022, the 30,000-tonne Anti-oxidant TMQ and 2,000-tonne HTMQ projects began production in the first half of 2022. The Phase 2 Insoluble Sulphur project with an annual capacity of 30,000-tonne, adopting automated and continuous production methods, had also started construction and is expected to be completed by the end of 2023. Phase 1 of the 20,000-tonne continuous production of high-quality MBT project was also launched and is expected to be completed by the end of 2023.

集团公司不断拓展国内外市场,并致力于产品的多样化,在"以销促产,以产促销"的产销平衡策略的指导下,努力构建完善的市场体系和产品体系,并为此落实项目扩产计划。

2022年,3万吨的防老剂TMQ项目和2,000吨HTMQ于上半年开始投产;二期年产3万吨,采取自动化、连续化生产的不溶性硫磺项目也开始建设,并将于2023年底完成;一期年产20,000吨高性能连续化生产MBT项目也开始动工,也将于2023年底完成。

# Chairman's Message

# 主席致辞

While focusing on production, construction, and operations, the Group also emphasises technological and managerial innovation. The Group has its own research and development team and closely collaborates with well-known universities and research institutes such as Tsinghua University and Qingdao University of Science and Technology etc. We actively invest in the transformation and upgrading of the rubber chemicals industry towards clean, automated, and intelligent production, making a greater contribution to the development of the tyre and even automotive industry.

The Group continues to implement the policy of thrift and strives to reduce costs. Cost competitiveness is crucial, especially in the current fiercely competitive situation. Many kinds of methods, such as reducing all kinds of consumption, controlling various expenses, eliminating wastage, and plugging any operational gaps are all implemented through the entire process from raw material procurement to product sales and receipt of payment.

Given the increasingly challenging global economic environment and the industry's competitive landscape, the Group pays much attention to the need to enhance risk awareness, strengthen "bottom-line" thinking, and improve risk prevention and control capabilities. Risk awareness, job training, system construction, and the implementation of assessments in risk control are consistently and continuously conducted. With everyone's joint efforts, the Group's risk control awareness has been further strengthened.

In 2022, we faced various risks and crises, such as the COVID-19 pandemic and strict control measures, stringent environmental protection and safety inspections. All staff worked together tirelessly in ensuring physical health, and achieving the goal of safety and environmental protection. No major accidents occurred. The overall level of safety and environmental protection of the Group continued to improve steadily.

集团在抓好生产、建设、经营的同时,进行技术创新和管理创新。集团公司拥有自己的研发团队,并与清华大学、青岛科技大学等多所知名大学、科研院紧密合作,积极推动橡胶助剂行业向清洁化、自动化、智能化转型升级,为中国的橡胶轮胎乃至汽车工业发展做出更大的贡献。

集团公司持续贯彻节流方针,努力降低成本。成本的竞争力非常重要,特别是在目前竞争比较激烈的情况下。在从原材料进厂到产品销售回款整个全过程中,降低各种消耗,压缩各种费用,杜绝各种浪费,堵塞各种漏洞。

当前全球经济和行业竞争形势日益严峻,集团强调,一定要提高风险意识,强化"底线"思维,提高防控能力,不断加强在风控方面的意识教育、岗位培训、制度建设以及执行力度的考核等。在大家的共同努力下,集团的风控意识进一步加强。

2022年,我们经历了疫情防控、环保、安全各级检查等多方面风险、危机的考验,全体员工齐心协力积极应对,确保了大家的身体健康,实现了安全、环保的目标,无重大事故发生。公司整体安全、环保水平不断提升,稳中有进。

# Chairman's Message 主席致辞

As a responsible corporate citizen, China Sunsine also gives priority to social responsibility and participates in various public welfare activities, such as implementing strict pandemic prevention measures, conducting environmental protection and safety initiatives, caring for vulnerable groups, and promoting the revitalization of rural economy.

The Group's commitment to putting people first and practising mindfulness for the benefit of others also helped it to achieve a shared value with customers and society. We provide customers with high-quality products, reasonable prices, long-term stable supply, and after-sales services. We are also committed to assuming more social responsibility, balancing the interests of the enterprise, employees, shareholders, and relevant stakeholders in society, to realize our value in society.

We have the confidence and ability in keeping the momentum of the Group's long-term and sustainable development. At the same time, we sincerely look forward to your active participation, so that we can work together to create a more brilliant future!

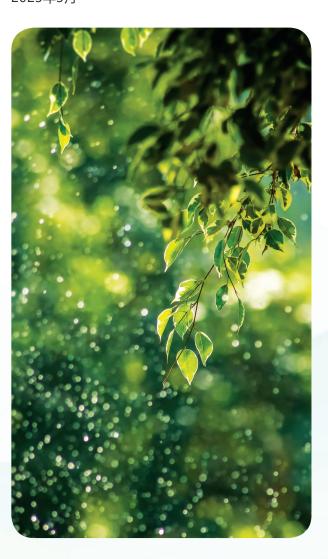
### Xu Chengqiu Executive Chairman March 2023

作为一家负责任的企业,中国尚舜还优先考虑社会责任,并参与各种公益活动和行业实践,例如执行严格防疫措施、环境保护和安全倡议、关爱弱势群体、振兴乡村经济等。

集团一直以来坚守"以人为本,正念利他"的共同价值观,努力实现客户价值和社会价值。为客户提供优质的产品、合理的价格、长期稳定的供货以及售后服务; 勇于承担社会责任,兼顾企业、员工、股东以及社会相关方的利益,实现社会价值。

我们有信心和能力继续保持公司高质量发展和可持续发展的良好态势;同时,真诚期待您的积极参与,让我们一起为创造尚舜更加辉煌灿烂的明天而卓力奋发、行稳致远!

### 徐承秋 执行主席 2023年3月



# Organisational Profile 公司简介



China Sunsine Chemical Holdings Ltd. ("China Sunsine" or the "Company", and together with its subsidiaries, collectively the "Group") 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 off as a chemical plant. It has total assets of RMB 4.2 billion, 2,200 employees, 700 professional technical staff over 45 years of development. There are six 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-oxidant and insoluble sulphur. Our products are widely used in and for 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, explore and open 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(简称"中国尚舜"或"公 **司**",与其子公司一起合称"**集团**")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45年的发展,目前 拥有总资产42亿元,员工近2,200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、永舜环保六个生产基地。 公司产品主要有橡胶促进剂、防老剂、硫化剂等三 大类十几个品种, 广泛应用于橡胶、轮胎、胶鞋、 胶管以及医药、农药等行业,出口40多个国家和地 区,销量连续多年位居全球第一,拥有全球1,000多 家的客户,包括超过75%的世界前75强轮胎企业。 这些都是由于我们秉承"坚持科技兴化,坚持以市场 为导向,以质量求生存,以经济效益为中心,努力 开拓新市场,积极开发新产品,全面提高企业素质" 的发展方针,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 ("SR") for the financial year ended 31 December 2022 ("FY2022").

我们很高兴在此呈现集团截至2022年12月31日2022财年的年度可持续性发展报告。

The Group is committed to continually consider material economic, environmental, social and governance ("EESG") topics as part of our core business strategy. The Board of Directors ("Board") and senior management ("Management") remains committed to establish and maintain an effective sustainability management framework, which is supported by underlying internal controls, risk management practices, clear accountability and 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 accuracy of data and information.

The Board oversees the management and monitors the materiality of the Group's EESG factors, in order 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.

We have chosen to focus our resources on issuing a sustainability report in FY2022. We will direct some of the resources and commit to publishing climate-related disclosure in the coming years while we increase our understanding of the climate-related risks and opportunities and TCFD recommendations.

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 的数据及信息的正确性。

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。

2022年,我们仍然将精力放在发布可持续发展性报告上,在未来年度,当我们逐步更加了解气候相关披露的机遇与风险及TCFD的建议后,集团将会考虑披露气候相关信息。



# About this Report 关于此报告



**Reporting Period, Scope and Framework** 

报告期间、范围和框架

This report is prepared in compliance with the requirements of Rules 711A and 711B of the listing manual of the Singapore Exchange Securities Trading Limited ("SGX-ST") and with reference to 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 2022, 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 Techonology Co., Ltd (Shanxian, Shandong, PRC)

This report summarises the expectations from various stakeholders, general business environment that the Group is operating in and what the Group has done in order 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,参考全球报告倡议组织准则 GRI2021进行编写。

集团决定选用全球报告倡议组织准则("GRI")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2022年度的12个月内,即从2022年1月1日到2022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。

此报告包含以下子公司的数据及信息:

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

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

# About this Report 关于此报告

Reporting Period, Scope and Framework



报告期间、范围和框架

The information disclosed in this report, read together with the information in the Group's annual report for FY2022 will provide the reader with a holistic view of the operations of our Group. We will strive to maintain and/or improve the standards of the various EESG factors reported where appropriate and practicable, in accordance with the business activities of the Group in the future.

To further ensure the accuracy of the data and information provided in this report, we will consider seeking an independent assurance review in future.

In 2022, we received feedback as well as suggestions for our Sustainability Report which we greatly appreciate. In this report, we have taken on-board the relevant feedback and suggestions. We continue to welcome feedback from our stakeholders with regards to our sustainability efforts as this will enable us to improve our policies, systems and 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。

2022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。对此,我公司表示感谢。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!





**Sustainability Steering Committee** 

可持续发展工作委员会

#### **BOARD**

China Sunsine's Board incorporates sustainability issues as part of the Group's strategic formulation. It also offers guidance to the SSC in their deliberation of EESG factors material to China Sunsine's business.

中国尚舜董事会将集团的可持续发展问题作为 其战略考量的重要方面,并对可持续性发 展委员会的工作作出指导。

### SUSTAINABILITY STEERING COMMITTEE ("SSC")

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

SSC制定可持续发展目标和战略,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。

### SUSTAINABILITY TASK FORCE ("STF")

The STF includes representatives across functions and divisions and drives 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。

#### 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 validity 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。

**Sustainability Reporting Process** 

可持续发展报告程序





An important starting point in our sustainability journey is to identify our stakeholders and material aspects relevant to our business. The interests and requirements of key stakeholders are also taken into account when formulating corporate strategies. These key stakeholders include, but are not limited to, customers, suppliers, employees, investors and regulators. We adopt both formal and informal channels of communication to understand the needs of key stakeholders and incorporate these into our corporate strategies to achieve mutually beneficial relationships.

可持续报告重要的起点是确定利益相关方和关于企业的重要指标。在制定企业可持续性发展策略时,重要利益相关方的利益及要求也被考虑。这些重要利益相关方包括并不仅限于客户、供应商、员工、投资者、及当地政府。我们通过正式或非正式的沟通渠道,了解重要利益相关方的要求,结合公司自身的发展方向,制定合适的发展策略。



### 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:

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
Customers and consumers 客户	Hotline 热线 Email enquiries 电邮 Customer visit 客户拜访 Onsite audit 客户现场审计	Compliance operation 合规运营 Providing green quality products 提供绿色优质产品	Sparing no efforts to ensure stable and continuous supply 全力保证持续稳定供应 High quality source of materials and product 优质原料保障 Establishing a two-way communication mechanism with customers 建立客户双向沟通机制 Customer Satisfaction Survey
Employees and trade unions 员工及工会	Townhall sessions 职工大会 Open dialogues among teams 民主讨论 Intranet portal 内网门户 Relevant information	Guaranteeing their basic rights and interests 保障基本权益 Offering suggestions for enterprise development 为企业发展提供建议 Developing employee capabilities and promoting	客户满意度调查 Protection of employee lawful rights and interests 保障员工合法权益 Creating a good working environment 创造良好工作环境 Organizing employees' representative conferences 召开职工代表大会
	disclosure 相关信息披露	career development 促进能力提升和职业发展 Sense of belongings and recognition 归属感和认同感 Sharing the development achievements with the Company 共享企业发展成果	Carrying out employee training 实施员工培训 Promoting the reward system for rational proposals 实行合理化建议奖励制度 Increasing investment in employees' occupational health 加大员工职业健康投入 Career planning and development path 职业生涯规划

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
Environmentalists 环保主义者	Regular reporting 定期报告 Relevant information disclosure 加强信息披露	Realizing cleaner production 实现清洁生产 Implementing energy conservation and emission reduction 落实节能减排 Protecting ecological environment 保护生态环境	Cooperating with environmental protection departments to conduct inspections 配合环保部门检查 Promoting cleaner production 推进清洁生产 Research and develop in green production process 研发绿色生产工艺 Organizing environmental protection activities 开展环保公益活动 Waste recycling 废弃物回收利用
Communities 当地社区,公 众和非政府 组织	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	Serving community development 参与社区建设 Working for public benefit 投身社会公益 Creating job opportunities 提供就业机会 Helping poor and disadvantaged groups 支持贫困地区和弱势群 体	Driving employment and local economic development 带动就业和当地经济发展 Supporting local suppliers 扶持本地供应商 Supporting education 支持教育事业 Volunteer activities 志愿行动 Contributing to the community environmental constructions 美化社区环境
Government and regulators 政府	Face-to-face meetings 面谈 Regular reports 定期汇报 Participation in discussions 参与讨论	Abiding by laws and regulations 守法合规 Serving national economic development 服务国家和当地经济发展 Increasing the local employment rate 带动当地就业 Ensuring production safety 确保安全生产	Paying taxes 依法纳税 Reporting to work regularly 定期汇报工作 Realizing prudent operation 实现稳健经营 Strengthening safety management 加强安全管理 Most of our employees are local 当地招聘员工



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
Suppliers and service providers 供应商	Face-to-face meetings 面谈 Annual review and feedback sessions 年度审核及回馈	Realizing fair and transparent procurement 实施公平、透明采购 Promoting joint development 促进共同发展 Timely fulfilment of the contracts 按时履行合同	Promoting stable purchasing policy 推行稳定采购政策 Establishing fair and transparent procurement principle and process 建立公平透明的采购流程 Helping suppliers make progress 帮助供应商进步
Investors/ Shareholders 投资者/股东	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	Enhancing earnings capacity 增强盈利能力 Improving corporate governance structure 完善公司治理结构 Performing the obligation of information disclosure 履行信息披露义务	Complying with relevant listing rules and regulations 严格遵守上市公司准则 Realizing healthy growth 实现健康增长 Establishing shareholder communication mechanism 建立股东沟通机制 Issuing Annual Report on a timely basis 定期发布年度报告
Trade Associations 行业协会	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	Participating in the standardisation process of the industry 参与行业标准的制定 Contributing to the sustainable development of the industry 促进行业持续健康发展 Stimulating the technology transformation, upgrading and innovation 促进技术进步和产业转型升级	Active participation 积极参与 Enhancement of innovation 加强技改 Promoting industry optimisation 促进产业优化

### **Material Aspects Assessment**

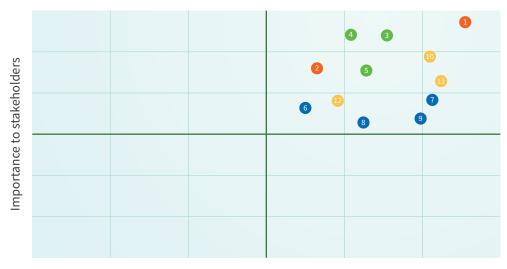


重要指标评估



To determine if an aspect is material, we assessed its potential impact on the economy, environment and society, and the influence on the stakeholders. Applying the guidance from GRI, we have identified the following material aspects for FY2022 which are the same as those determined last year as they are still relevant and current to the Group:

为了确定指标是否重要,我们对其在经济、环境和 社会以及对利益相关方的影响做出了评估。根据全 球报告倡议组织指南,我们确定了以下2022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。



Impact on business

- 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
- ഥ 🛮 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 growing our business in a sustainable manner. For detailed financial results, please refer to the following sections in our Annual Report 2022:

- Financial Highlights, pages 6-7.
- Operations & Financial Review, pages 16-19.
- Financial Statements, pages 63-66.

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2022年报:

- 财务摘要,年报第6-7页。
- 运营和财务分析,年报第16-19页。
- 财务报表,年报第63-66页。



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 FY2022.

We have also set long-term goals for the Group: Focusing on 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 anti-oxidants 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.

In order to achieve our long-term goals, the Group has invested in the following projects leading up to 2022:

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 will further strengthen our position as the leading rubber chemicals producer in the world.

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2022年的每年254,000吨。

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位置,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,2022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

Production 生产量





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 with a successful trial run conducted in December 2021. The construction of Phase 2 was initiated in 2022, the building and infrastructure constructions have been mostly completed as at the end of 2022. This facility improved product quality and yield, reduced raw material consumption, raised the level of automation and improved productivity, reduced labor intensity, 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 construction of the 30,000 tonnes Anti-oxidant TMQ and 2,000 tonnes Anti-oxidant HTMQ projects started in 2020 with the objective to further expand our anti-oxidant production capacity. The commercial production has commenced in 2022, which will allow the total production capacity of our anti-oxidant products to reach 77,000 tonnes per annum.

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,于2021年12月开始成功试运行。2022年启动了二期项目的建设,截至年底,土建工程基本完工。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。

30,000吨/年防老剂TMQ和2,000吨/年防老剂HTMQ项目于2020年在单县化工园区开工建设,以进一步扩大公司防老剂的产量,该项目于2022年投产,该项目的投产使集团的防老剂产品总产能达到77,000吨/年。

# **Economic**

经济



In order to reduce the environmental risks and waste treatment cost, 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 one 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 two of the landfill project. In 2022 phase two 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 Chinese government's COVID-19 pandemic control measures implemented and weak market demand, our total production and sales volume for FY2022 declined to 190,799 tonnes and 186,153 tonnes (FY2021: 202,197 tonnes and 195,405 tonnes), respectively. Our production and sales volume have both decreased consequently. The per capita production and sales were 118.95 tonnes and 87 tonnes respectively (FY2021: 89.9 tonnes and 86.9 tonnes). The increase in per capita production was mainly due to the increase in use of automation in the manufacturing process. Per capital 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,受疫情和市场影响,集团在2022年度的产销量均有下降,全年产销量各为190,799吨及186,153吨(2021:202,197吨及195,405吨),产销量均有不同程度的下降。人均产销量分别为118.95吨及87吨(2021:89.9吨及86.9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。



# Economic 经济





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 Tires, as well as PRC tyre giants such as Zhongce Rubber, GITI Tire, Sailun Tires and Linglong Tire etc.

For the past few years, the Group has been the world No. 1 producer of rubber accelerators. Due to the absence of publicly available data on market size of products, we have performed an assessment internally of our accelerators 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%的全球首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、横滨(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、和佳通轮胎、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. While there is no formal anti-corruption policy, we prohibit corruption in all forms, including extortion and bribery. 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。目前公司还没有正式 的反腐败政策,但是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,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,董事会也采取了一些列的预防策略。



### FY2022 Target 2022年目标

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

### FY2022 Performance 2022年完成情况



### FY2023 Target 2023年目标

Maintain zero incidents of corruption. 保持零腐败率。

环境

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

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

"Building a beautiful harmony in Sunsine" is our mission statement, illustrating our relentless commitment to incorporate 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 so as 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,把环保工作做为企业的"生命工程"来抓,牢固树立资源节约、环境友好、科学发展、可持续发展的生产经营理念,在环保治理上不惜投资,把"建设美丽和谐尚舜"作为我们企业发展的一种责任、一项使命来认识并身体力行。在公司内部明确要求环保治理必须再上新台阶,各级各部门要提高认识,主动对废水、废气、异味、废渣全面治理,全员、全时段、全方位抓环保,采取"从源头抓、从中间控、从未端治"的环保管制模式,彻底实现污染物的达标排放,消除制约发展的瓶颈,为公司的可持续发展打下坚实的基础。

贯彻环境保护法律法规及相关政策的要求,领导推进公司环保工作的全面开展;以提高企业治污能力为出发点,着力加强企业环境基础设施建设,积极响应"十个一工程"建设结合公司自身实际,高标准建设起一套技术先进的治污设施、一套中水回用工程,一套固废处置系统,一个规范的排污口和生物指示池,一套在线监控系统,一个事故应急处置池一套科学的应急预案,一个标准化的实验室,一套精细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。

# 环境

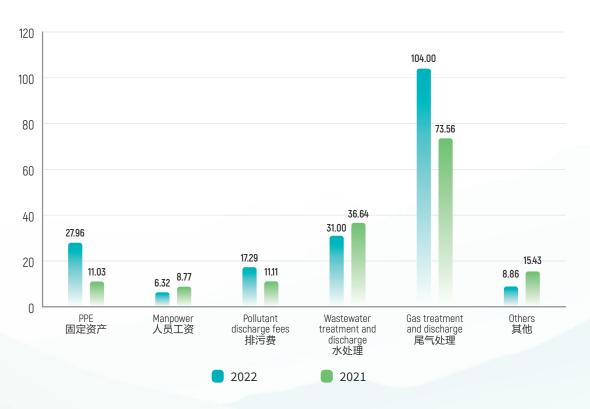
Our environmental management team comprises more than 123 employees, all of whom are well-equipped with relevant environmental protection knowledge and experience. This includes 2 post-graduate staff specialised in environmental protection and 10 degree holders who are dedicated to the Company's environmental research and provide support for our environmental protection technology. We have also formed an Environmental Protection Committee which consists of 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 2022 was RMB 195.43 million. The increase in environmental protection expenditure in 2022 was mainly due to more investment into the environmental protection equipment and higher operating cost of gas treatment facilities.

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123人,其中环境专业研究生2人,本科生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,2022年在环境保护方面的支出为1.9543亿元。相比2021年,今年环保方面的固定资产投资和尾气处理费用增加较大。

# Group's environmental protection expenditures (RMB Million)



**Energy** 

Our production facilities use coal, electricity and steam. Coal is used to produce steam required for the desiccation process.

The following two charts show our Group's total energy consumption and unit energy consumption in 2021 and 2022. The total consumption of coal, electricity and steam has decreased in 2022 due to the drop in production. The unit consumption for steam and electricity has decreased in 2022 due mainly to the technological upgrading and replacements of the old energy intensive equipment.

我们加工设备需要煤, 电和蒸汽作为能源动力。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2021和2022年度的总 体能耗及单位能耗。由于产量的降低, 2022年煤、 电、汽的总消耗相对2021年有所减少。由于对旧有 耗能大的设备进行技改和更换,2022年吨产品耗 电、耗汽同比减低。

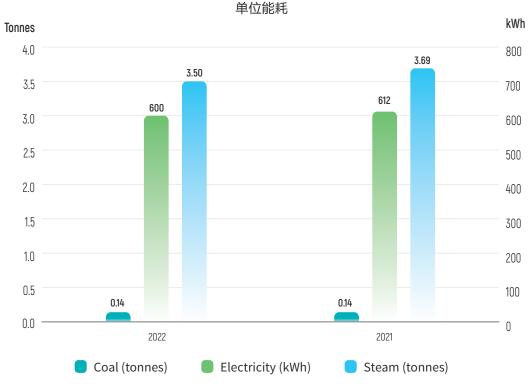
### **Total Energy Consumption**



### 环境



### **Energy Consumption per Unit**



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 (ie. 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 2022, Guangshun Heating produced 90.22 million kWh (2021: 94.24 million kWh) of electricity for internal consumption. It also produced 834,059 tonnes (2021: 948,444 tonnes) of steam of which 721,571 tonnes (2021: 837,909 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。

2022年,广舜热力发电9,022万,全部用于集团内部消耗(2021:9,424万度);产蒸汽834,059吨(2021:948,444吨),其中721,571吨(2021:837,909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。

Energy 能源



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

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

### FY2022 Target 2022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

确保吨产品能源消耗不超 去年,并在此基础上有下 隆。

### FY2022 Performance 2022年完成情况

Target achieved.

完成目标。

### 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。

## 环境



Water 水资源

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.

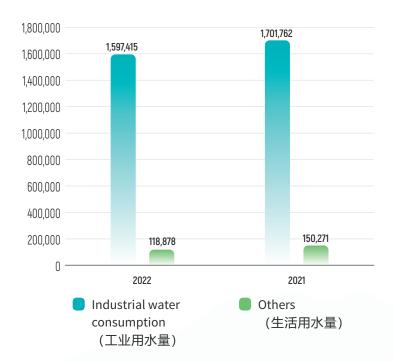
在我们的生产过程中, 会大量使用水。我们使用的水可分为两部分, 一为 工业用水, 二为生活用水。工业用水主要用来产生蒸汽, 及在工艺流程中 用来稀释, 水洗 (物料纯化) 和循环降温。

Water consumption has decreased in 2022 due to the decrease in production levels and watersaving measures. The unit water consumption had reduced by 0.26 cubic meters from 9.48 cubic meters in 2021 to 9.22 cubic meters in 2022. We are committed to continue using water as efficiently as possible.

由于产量的减少以及节水措施的 采取,2022年用水量比2021年 有所减少,2022年单位商品耗水 量为9.22立方,比2021年单位耗 水量9.48立方略微降低了0.26立 方。同时,我们也承诺尽可能的 有效用水。

# **Total Water Consumption**





### FY2022 Target 2022年目标

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

### **FY2022 Performance** 2022年完成情况

Target achieved.

# 达到目标。

### FY2023 Target 2023年目标

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

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 re-use. For those wastewater which cannot be recycled and re-used, 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 pretreatment, recycling as well as the bio-treatment of wastewater, and improves all employees' skills. We spare no effort in harnessing our human, technological and financial resources to ensure our wastewater discharge fulfils 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 to the external environment. The measures include adopting innovative technology with advanced production processes and equipment, using better quality raw materials, and raising management skills.

Due to increase in production and the adoption of water-saving measures, the Group discharged a total of 668,500 (2021: 759,500) cubic meters of wastewater in 2022. Unit wastewater discharge was 3.50 (2021: 3.76) cubic meters, and recycled wastewater was 1,334,287 (2021: 1,304,000) 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≤500mg/L,氨氮≤35mg/L,苯胺≤1.5mg/L)后排入政府污水处理厂。

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

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

自2013以来,集团曾推行"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2022年 共排放废水668,500立方米 (2021:759,500立方 米),单位成品废水排放量为3.50立方米 (2021:3.76立方米),回收废水1,334,287立方米 (2021:1,304,000立方米)。

### FY2022 Target 2022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。

### FY2022 Performance 2022年完成情况



### 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。

### 环境



Hydrogen sulphide created during production process is harmful to health and the environment. Our sulphur recycling facility has effectively extracted the sulphur from hydrogen sulphide for re-use in our production process, 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 on 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 projects in 2022:

- Shandong Sunsine MBTS workshop has completed the installation and commissioning of dehydration tail gas treatment facilities; 6PPD workshop collected waste gas from granulation and finished product tanks and fed into the RTO system for incineration; DPG workshop merged the tail gas of the washing tank into the absorption tower for treatment; the water treatment station has replaced the sealing shed of the regulating pool to strengthen the sealing and collection;
- 2. Weifang Sunsine completed upgrading the tail gas absorption tower of the resin distillation post, installed a three-stage spray tower on the RTO system, and placed the MBT dry tail gas spray absorption tower into operation. These treatment measures effectively reduced the odor generated by the unorganized tail gas in the factory area.

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,2022年公司又实施了下列 工程和措施:

- 1. 山东尚舜MBTS车间完成了脱水尾气治理设施的安装、调试;6PPD车间造粒化料槽和成品料仓以及成品罐的废气完善收集,引入RTO系统焚烧;DPG车间将水洗罐尾气并入吸收塔处理;水处理站对调节池密封棚进行了更换,加强密封收集。
- 2. 潍坊尚舜完成了树脂蒸馏岗位的尾气吸收塔改造, 安装了RTO系统三级喷淋塔, MBT干燥尾气喷淋吸 收塔投入运行, 这些治理措施有效削减了厂区无组 织尾气产生的异味。



Emission 排放



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.

Toxic gas emission is monitored in real-time by the local Environmental Department and government authority. In 2022, toxic gas emissions met the local standard of Shandong Province "comprehensive emission standard of regional air pollutants" (DB37/2376-2019) (dust content ≤ 10mg/m3, SO2 content ≤ 50mg/m3, nitrogen oxide content ≤ 100mg/m3).

In 2022, recycling volume of sulphur is 12,903 tonnes (2021: 12,979 tonnes), and the recycling rate is as high as 99.5% (2021: 99.5%). The economic value of sulphur recycled amounted to RMB 10.25 million (2021: 10.32 million), recycled sulphur dioxide in 2022 is 3,318 tonnes (2021: 3,322 tonnes), the economic value of sulphur dioxide recycled amounted to RMB 11.84 million (2021: 11.85 million).

自2008年,我们获得了GB/T24001-2004/ISO14001:2004环境管理系统认证,且持续改进。 在此基础上,2018年又获得了GB/T24001-2016/ISO14001:2015环境管理系统认证。

所有的废气排放口都安装了实时在线监控设备,此设备直接与当地政府及环保局连线。在2022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≤10mg/m3, SO2含量≤50mg/m3, 氮氧化物含量≤100mg/m3)。

2022年硫磺的循环使用量是12,903吨 (2021年: 12,979吨),循环率高达99.5%(2021:99.5%)。回收硫磺经济效益达到人民币1,025万元 (2021: 1,032万元)。回收二硫化碳3,318吨 (2021: 3,322吨),经济效益1,184万元 (2021: 1,185万元。)

### FY2022 Target 2022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。

### FY2022 Performance 2022年完成情况

No instance exceeding government's allowed range.

未出现超出政府允许 范围情况。

### FY2023 Target 2023年目标

Our goal is to meet toxic gas emission regulatory limits.

毒气达标排放。

# Social 补会

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 to 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 labor practices.

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。

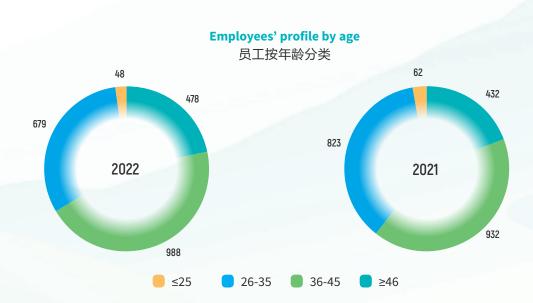


### Employment, Diversity and Equal Opportunity 雇佣,多元化和平等机会

#### **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 decisionmaking process of the Board through the perspectives derived from the professional expertise, business experience, industry discipline, skills, knowledge, gender, age, educational background, 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.

#### 董事会多元化



# 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. There were no incidents of discrimination during the reporting period. We strictly prohibit the hiring of underage staff at any of our offices and processing facilities.

We give priority to local talents in China for our recruitment. We are committed to provide competitive remuneration and benefits to our employees, which are consistently above the market rate in the provinces we operate in. We are also committed to safeguard our employees' health and safety against any potential workplace hazards.

Even though we operate in a male-dominated industry, 16% (2021: 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.

中国尚舜承诺无种族,性别,宗教和少数名族歧视 雇佣宗旨。在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。我们承诺对员工提供具有竞争性的工资和福利。员工工资在单县全县始终保持较高的水平。我们也承诺在危险工作环境下会保护员工健康与安全。

尽管化工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%(2021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。



# Social 补会



### **Employment, Diversity and Equal Opportunity**

雇佣, 多元化和平等机会

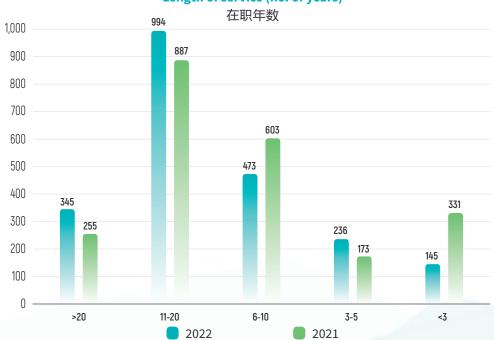
Our foundation for developing a sustainable business is to build an inclusive culture. The Group organises various activities such as sports days, speech competitions, New Year's Gala Dinner and other activities frequently to strengthen camaraderie and a sense of belonging amongst employees to build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

Staff turnover is low with less than 3.51% (2021: 4.3%) of the total headcount per annum in 2022. We do not hire part-time staff. 61% (2021: 51%) of our staff has been working with our Group for more than 10 years.

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

2022年,员工流动率少于总员工人数的3.51%(2021年:4.3%)。我们也没有雇佣兼职人员。61%(2021年:51%)的员工的在职年数已超过10年。

### **Length of service (no. of years)**



### FY2022 Target 2022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

### FY2022 Performance 2022年完成情况

No discrimination based on race, gender, religion, or against employment of ethnic minorities 未发生种族、性别、宗教和少数 民族歧视雇佣。

### 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、宗教和少数名族歧视雇佣现象。

# 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 5,438 hours in 2022 (2021: 5,173 hours).

我们注重员工培训,以使得员工的潜能得到提高。2022年培训时间总共为5,438小时(2021年:5,173小时)。

The following is a list of our training programme for 2022:

- New staff orientation (workers and management)
- Professionalism
- Organisational culture
- Management qualification
- Innovation
- Mindset Change
- Safety management
- Quality management
- Environmental case study
- Production management
- Equipment management
- Finance management
- Internal transfer training
- Cybersecurity
- Risk prevention and control
- Labor and human rights
- Sustainable procurement
- Business ethics

### 以下是2022年员工培训内容:

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

### FY2022 Target 2022年目标

2022 planned training time is not less than 2,500 hours. 2022年计划培训时间不少于2,500小时。

### FY2022 Performance 2022年完成情况



Target achieved.

✓ 达到目标。

### FY2023 Target 2023年目标

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

# Social 社会



### **Occupational Health and Safety**

健康和安全

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

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

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

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

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

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

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

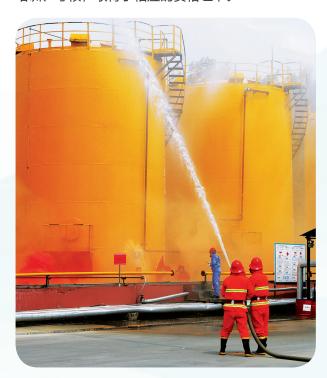
公司依法提取安全生产费用,加大安全投入,对各种危化品使用、储存、输送设备进行改造升级,优化了硬件安全设施采用安全可靠的新技术、新材料和新装备,提高工艺技术和自动控制水平,提高企业控制安全风险的能力,不断改进安全生产条件。公司依法为从业人员提供劳动防护用品,教育、监督其正确佩戴和使用。

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

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

我们要求我们的员工在处理有毒有害材料时采取适当的预防措施。

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



### **Occupational Health and Safety**

健康和安全



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 workshop before and after work on a daily 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 for setting up Production and Safety Committee and Department.

We have an Annual Internal Safety Inspection Plan. The local authority conducts inspection 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 inspection 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 in order 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光盘,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。



#### **Occupational Health and Safety**

健康和安全

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 safety 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 safety distance and equipment layout of the production facilities are standardized and meet the standard requirements.

Shandong Sunsine carried out the evaluation of the safety production status once every three years in a planned way, and successfully completed the renewal of the "Safe Production License".

According to the requirements of the "Three-Year Action Plan for National Safety Production Special Rectification", Shandong Sunsine carried out antiexplosion transformation measures for the sulfur recycle workshop, old TMQ workshop, hydrogen production section, anti-oxidant 4ADPA and 6PPD workshop control room, SIS system cabinet room, etc. to further eliminate safety risks.

According to the requirements of the provincial and municipal hazardous chemicals safety production information construction and application work plan, Shandong Sunsine, Weifang Sunsine, Shandong Shengtao and Shandong Hengshun factories have installed the safety production information system in 2022. We actively worked on the local Emergency Management Bureau's request to successfully complete a comprehensive emergency response drill exercise for hazardous chemicals.

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。山东尚舜有计划性的开展了三年一次的安全生产现状评价工作,顺利完成了《安全生产许可证》换证工作。

山东尚舜根据"全国安全生产专项整治三年行动计划" 要求,对硫磺回收车间、老TMQ车间、制氢工段、 防老剂RT培司和6PPD车间控制室、SIS系统机柜间 等,进行了抗爆改造,进一步消除了安全风险。

根据省、市危险化学品安全生产信息化建设与应用工作方案要求,山东尚舜、潍坊尚舜、山东盛陶、山东恒舜厂区完成了安全生产信息化建设工作。2022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。



### Occupational Health and Safety

健康和安全



In 2022, the Company further enhanced its system of hierarchical control, trouble-shooting 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 Measure for Safety Production Responsibility
- Management Policy for Production Unit Startup and Shutdown
- Management Policy for Prevention of Equipment Leakage
- Management Policy for Safety Education and Training (revised and updated)
- Management Policy for Eight Special Operation (revised and updated)

The Company is focused 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, we obtained the occupational health and safety management system certification, and have continuously strengthened our production safety system to be more advanced, practical and effective. In 2022, the company renewed the certificate which comply with GB/T45001-2020/ISO45001:2018 standard.

We were honoured to be awarded the title of "Production Safety Enterprise in Shandong Province", as well as "Provincial Safety Culture Demonstration Enterprises", "the province's 'safe production' activities outstanding organization", "the national enterprise emergency response knowledge contest winners", "Heze City safety production emergency management demonstration site", "Heze City Ankang Cup competition winning unit", "Heze City best fire safety unit", "Municipal emergency management model unit" and other honorary titles.

We are pleased to share that no major safety-related incident took place in 2022 (2021: NIL).

2022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 《安全生产责任制管理办法》、《生产装置开停车 管理制度》、《设备防泄漏安全管理制度》,对《 安全教育培训管理制度》、《八大特殊作业管理制度》重新进行了修订完善。

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,公司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。2022年换发新证,新认证符合GB/ T45001-2020/ISO45001:2018标准。

公司获得了"山东省安全生产基层基础工作先进企业" 荣誉称号,还获得了"省级安全文化建设示范企业、全省'安全生产月'活动优秀组织单位、全国企业应急 救援知识竞赛优胜单位、菏泽市安全生产应急管理 示范点、菏泽市安康杯竞赛优胜单位、菏泽市消防 工作先进单位、市级应急管理示范点" 等一系列荣誉称号。

2022年发生的重大安全事故0件 (2021:0件)。



#### Occupational Health and Safety

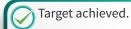
健康和安全

#### FY2022 Target 2022年目标

No major safety-related incident.

不发生重大安全事故。

#### FY2022 Performance 2022年完成情况



#### ) 达到目标。

#### FY2023 Target 2023年目标

No major safety-related incident.

不发生重大安全事故。



#### **Chemical Management**

化学品管理

We have strengthened our on-site chemical management, especially in high-risk areas such as 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 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。



### **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 completely 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 make Sunsine the world's most famous brand in our industry.

We place 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 high standards expected by our customers, which ultimately strengthened customer satisfaction. Our production facilities also provide a safe working environment for all our 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 are commitment to product variety and quality improvement, provide excellent service standards to meet the needs of both domestic and foreign customers and achieve 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、干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制度,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%。



#### **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 assure that our production process is in accordance with our quality control guidelines.

Since July 2000, the Quality Management System of Shandong Sunsine has obtained GB/T19001-1994/ISO9001: 1994 certification, and was upgraded to GB/T19001-2016/ISO9001: 2015 in 2018. The company successfully passed an audit by the Beijing Sanxing 9000 Certification Body in November 2022. Shandong Hengshun's Quality Management System has obtained GB/T19001-1994/ISO9001: 2015 certification. So far, all the rubber chemical production factories of the group have obtained GB/T19001-1994/ISO9001: 2015 certification.

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

自2000年7月,山东尚舜的质量管理体系得到GB/T19001-1994/ISO9001:1994认证,2018年已升级到GB/T19001-2016/ISO9001:2015,2022年11月份通过了北京三星九千认证公司的换证监督审核。山东恒舜的质量管理体系通过了GB/T19001-2016/ISO9001:2015认证。至此,集团胶助剂生产厂区均获得GB/T19001-2016/ISO9001:2015认证。

#### FY2022 Target 2022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。

#### FY2022 Performance 2022年完成情况

In 2022, the Company has achieved the annual quality target. There were no major incidents; except for 8 negative feedback from customers.

2022年没有发生质量责任大事故;发生一般客户不良反馈8起。完成了年度质量目标。

#### 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。

### **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 customer with a personal, bespoke service.
- Communicate with clients, visit clients, solve the problems during use of product.
- 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,干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。



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 FY2022. We passed all audits.

- 1. PROMETEON TYRE GROUP S.R
- 2. ZHONGCE RUBBER GROUP CO.,LTD.
- 3. Hankook Tire China Co., Ltd.
- 4. Anhui Zhongding Sealing Parts Co., Ltd.
- 5. Bridgestone (CHINA) Investment Co., Ltd.
- 6. Shandong Linglong Tire Co. Ltd
- 7. GITI TIRE(Anhui)COMPANY Ltd.
- 8. Sumitomo Rubber (ChangShu) Co. Ltd
- 9. Goodyear Tyre Management Company (Shanghai) Co. Ltd

2022年通过视频或实地访问并审核过我们的客户有:

- (1) 意大利倍力风神
- (2) 中策橡胶集团有限公司
- (3) 韩泰轮胎有限公司
- (4) 安徽中鼎密封件股份有限公司
- (5) 普利司通(中国)投资有限公司
- (6) 山东玲珑轮胎股份有限公司
- (7) 安徽佳通轮胎有限公司
- (8) 住友橡胶 (常熟) 有限公司
- (9) 固特异轮胎管理 (上海) 有限公司

#### FY2022 Target 2022年目标

1. Ensure that it is marketoriented and customerfocused, 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%。

#### FY2022 Performance 2022年完成情况



Target Achieved

- 1. Customer satisfaction rate of 96.96%. 全年客户综合满意度 96.96%,完成目标。
- 2. Passed all 9 customers' audits. 9家客户审核全部通 过。完成目 标。

#### FY2023 Target 2023年目标

1. Ensure that it is marketoriented and customerfocused, and enhance customer satisfaction and loyalty, with overall customer satisfaction ≥96% throughout the year.

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%。

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 a number of 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 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 "Anti-oxidant 6PPD hydrogenation in loop" was awarded as Technology Run-up 2nd award by China Petroleum and Chemical Industry Federation. The "Research and application of key technologies for continuous clean production of high performance accelerator MBT" project was listed in the "Key Research and Development Plans (Major Science and Technology Innovation Projects)" and entitled to receive a government grant of RMB 24.36 million under "2020 Shandong Province Major Science and Technology Innovation Projects Guide".

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



As of end 2022, the Group had 53 national patents (2021:53), including 35 invention patents (2021:35) and 18 utilities model patents (2021:18). 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 rubber chemicals industry and improves the efficacy of the Company's rubber additives.

至2022年底,集团拥有国家专利53 (2021:53) 项,其中,发明专利35 (2021:35) 项,实用新型专利18 (2021:18) 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。

Innovation 自主创新



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

In October 2022, the first phase of the 60,000 tonnes/ year continuous production of high quality MBT project with a capacity of 20,000 tonnes/year started. This production process is jointly developed by Shandong Sunsine's R&D team and Tsinghua University's Academician, Professor Chen Bing Zhen, and her team. The project was selected as a major construction project in Shandong Province in 2022. The completion of this project will promote the transformation and upgrading 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 the rubber chemicals, tyres as well as the auto industry.

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高分子材料方面的保持,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、产学共赢"。

2022年10月,6万吨/年连续化溶剂法高性能MBT项目一期2万吨/年工程开工建设,项目生产工艺由尚舜化工研发团队和清华大学陈丙珍院士团队共同研发,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。







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, culture causes, charity and poverty alleviation, etc. The Group also supports education, and in 2022, donated RMB 530,000 to Philanthropic Primary School in Shan county to build "Sunsine Lide Library"; supported 56 needy students with their education needs. In total, from 2011 to 2022, the Group has supported more than 600 needy students through RMB 1.8 million in education grants.

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.

During the year, we donated RMB 1.97 million (2021: RMB 2.17 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。2022年,向单县博爱学校捐款53万元建立"尚舜立德图书馆";资助贫困生56名,自2011年至2022年,已累计资助贫困学生600余名,共发放助学金180万多元,对弱势群体贫困学子的资助已形成常态。

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"。

本年度,集团共捐助人民币197万元 (2021: 217万元)。









#### 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。

#### **Group Awards in 2022**

社会责任。

2022年集团所获荣誉

No. 序号	Name of awards 荣誉名称	Awarding agency 颁发机构
沙豆	木言石砂	观交价时
1	Heze Water Saving Enterprise 菏泽市节水型单位	Heze Tax Bureau, Heze Development and Reform Commission, Heze Industry and Information Technology Bureau, Heze Bureau of Office Affairs Administration 菏泽市税务局 菏泽市发展和改革委员会 菏泽市工业和信息化局 菏泽市机关事务管理局
2	Special Contribution towards 2021 Economy Development 2021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	2022 Specialist Chemical Enterprise Top 100 (Ranked 31) 2022专用化学产品企业销售收入前100家排行榜第31名	China Chemical Enterprise Administration Association, Chemical Management Magazine 中国化工企业管理协会 《化工管理》杂志社有限公司
4	2022 Petrochemical Enterprise Top 500 [Comprehensive](Ranked 299] 2022石油和化工企业销售收入前500 家排行榜(综合类)第299名	2022 Petrochemical Enterprise Top 500 (Comprehensive) (Ranked 299) 2022石油和化工企业销售收入前500家排行榜(综合类)第299名
5	2022 China Top 100 Fine Chemical 2022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



Member of Rubber Industry Association of PRC

Member of Rubber Accelerators Industry Association of PRC

Member of Chinese Chemical Society

Member of Shandong Province Rubber Industry Association

Deputy Chairman of Green Manufactory Committee of Chemical Industry and Engineering Society of PRC

Member of China Green Development Union

Member of Shandong High Quality Chemical Industry Alliance

Executive Vice President of Heze, China International Chamber of Commerce

Executive Member of Heze Foundation for Justice and Courage

中国橡胶工业协会主席团成员单位

中国化工学会会员单位

中国橡胶工业协会助剂专业委员会副理事长单位

山东省橡胶行业协会副理事长单位

中国化工学会橡塑产品绿色制造专业委员会副主任 委员单位

中国绿色发展联盟理事单位

山东省高端化工发展促进会理事单位

中国国际商会菏泽商会常务副会长单位

菏泽市见义勇为基金会常务理事单位

## 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 2022, please refer to our Annual Report 2022, on pages 31-54.

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2022年企业治理成绩和实践,请参阅2022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 the wastewater discharge and toxic gas emission in 2022.

如上所述,我们在2022年的废水和废气排放量在政府规定的限额内。

#### FY2022 Target 2022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。

#### FY2022 Performance 2022年完成情况

All wastewater and toxic gas were discharged in accordance to regulatory limits.

废水废气全部达标排

#### 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。

## Enterprise Risk Management (ERM)





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 45-46.

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2022年年报 第45-46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 anticompetitive behaviours.

In FY2022, 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2022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。

#### FY2022 Target 2022年目标

Continue to strengthen our control environment to eliminate anticompetitive 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。

#### FY2022 Performance 2022年完成情况



Target Achieved.

✓ 达到目标。

#### 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。

## **GRI Standards Content Index**

## 全球报告倡议组织准则指引

GRI Standards 2021	Disclosure	Location
	2-1 Organizational details	6
	2-2 Entities included in the organization's sustainability reporting	8
	2-3 Reporting period, frequency and contact point	8-9
	2-4 Restatements of information	None
	2-5 External assurance	9
	2-6 Activities, value chain and other business relationships	6
	2-7 Employees	30-32
	2-8 Workers who are not employees	32
	2-9 Governance structure and composition	10
	2-10 Nomination and selection of the highest governance body	AR 37-40
	2-11 Chair of the highest governance body	10
	2-12 Role of the highest governance body in overseeing the management of impacts	10
	2-13 Delegation of responsibility for managing impacts	10
	2-14 Role of the highest governance body in sustainability reporting	10
GRI 2: General Disclosures 2021	2-15 Conflicts of interest	AR 32
	2-16 Communication of critical concerns	12-14
	2-17 Collective knowledge of the highest governance body	10
	2-18 Evaluation of the performance of the highest governance body	AR 40-41
	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	10-15
	2-23 Policy commitments	30
	2-24 Embedding policy commitments	30
	2-25 Processes to remediate negative impacts	20
	2-26 Mechanisms for seeking advice and raising concerns	20
	2-27 Compliance with laws and regulations	21-29
	2-28 Membership associations	48
	2-29 Approach to stakeholder engagement	12-14
	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
	3-1 Process to determine material topics	15
GRI 3: Material Topics 2021	3-2 List of material topics	15
100100 2021	3-3 Management of material topics	16-49
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	16
GRI 205: Anticorruption 2016	205-3 Confirmed incidents of corruption and actions taken	20
GRI 302: Energy 2016	302-1 Energy consumption within the organization	23-25
GRI 302: Ellel gy 2010	302-5 Reductions in energy requirements of products and services	23-25
GRI 303 Water and Effluents 2018	fluents 2018 305-5 Water consumption 305-7 Nitrogen oxides (NOY) sulfur oxides (SOY) and other significant air emissions	
GRI 305: Emissions 2016		
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	30-32
GRI 403:	403-1 Occupational health and safety management system	34-37
Occupational health and safety	403-2 Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities	34-37
2018	403-5 Worker training on occupational health and safety	34-37
GRI 404: Training	404-1 Average hours of training per year per employee	33
and Education 2016	404-2 Programs for upgrading employee skills and transition assistance programs	33
GRI 405: Diversity and equal opportunity 2016	405-1 Diversity of governance bodies and employees	30-32
GRI 413: Local communities 2016	$413\mbox{-}1$ Operations with local community engagement, impact assessments, and development programs	46-48

# Sustainability Feedback Form 可持续发展报告调查反馈表

#### Part 1 - Material EESG ranking 重要因素排行

Please rank the following factors from 1 to 5, 5 being the most significant and 1 as the least significant. 请依据1-5为下列因素排行,5为最重要,1为最不重要。

#### A. Economic 经济

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
EC1 - Economic Performance 经济绩效	
EC2 - Anti - Corruption 防贪腐	
Others 其他	

#### B. Environmental 环境

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
EV1 - Energy 能源	
EV2 - Water 水资源	
EV3 - Emission 排放	
EV4 - Environmental Compliance 环境合规	
Others 其他	

#### C. Social 社会

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
S1 - Employment, Diversity and Equal Opportunity 雇佣,多元化和平等机会	
S2 - Training and Education 培训与教育	
S3 - Occupational Health and Safety 健康与安全	
S4 - Local Communities 当地社区	
Others 其他	

#### D. Governance 治理

Material Factor 重要因素	Influence to stakeholders 对利益相关者的影响
G1 - Enterprise Risk Management 企业风险管理	
G2 - Fair Operating Practice 公平营运实践	
Others 其他	

# Sustainability Feedback Form 可持续发展报告调查反馈表

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To assist us in improving our sustainability reporting, please provide us with your feedback.
为了进一步帮助我们提高可持续性发展报告的编制,恳请提供以下反馈。
l am a: 我是:
<ul> <li>Shareholder 股东</li> <li>Investor 投资者</li> <li>Employee 员工</li> <li>Consultant, supplier or business partner 顾问,供应商或商业伙伴</li> <li>Customer 客户</li> <li>Government/regulatory agency 政府部门</li> <li>Media 媒体</li> <li>Others 其他(请注明)</li> </ul>
<ul> <li>1. How did you obtain a copy of our Sustainability Report?</li> <li>您是从哪里获得此可持续性发展报告的?</li> <li>website 网站</li> <li>employee 员工</li> <li>Others 其他(please specify请注明)</li> </ul>
<ul> <li>Overall you found the: 总体上,您觉得此报告:</li> <li>Approach and style of reporting: Excellent / Very good / Good / Fair / Poor 编制的方法和形式: 非常好/很好/好/一般/差</li> <li>Amount of Information: Excellent / Very good / Good / Fair / Poor 报告的内容: 非常好/很好/好/一般/差</li> <li>Layout and design of the report: Excellent / Very good / Good / Fair / Poor 报告的版面及设计: 非常好/很好/好/一般/差</li> <li>Graphs and tables: Excellent / Very good / Good / Fair / Poor 报告的表格及图表: 非常好/很好/好/一般/差</li> </ul>
3. Which part did you find most useful and why? 您最喜欢哪个部分?为何?
4. How could we improve on the report? 我们该如何改进此报告?
6. Any other comments or suggestions? 您还有什么其他的建议?
If you would like us to contact you if we need clarification: 如您愿意我们联系您以获取您进一步的建议,请留下以下联系方式: Name 姓名:
Address 地址:
Phone 电话:

Email 电邮:\_

Thank you for your feedback! 非常感谢您的反馈!



## CHINA SUNSINE CHEMICAL HOLDINGS LTD. (Incorporated in the Republic of Singapore on 28 June 2006)

(Incorporated in the Republic of Singapore on 28 June 2006) (Company Registration Number: 200609470N)

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#### **OUR DISTINGUISHED CLIENTS**

- Bridgestone
- Michelin
- Goodyear Tire
- Cooper
- Sumitomo
- Hankook
- Yokohama
- CST Tire

- Toyo Tire
- Tire Pirelli
- GITI Tire
- Hangzhou Zhongce
- Double Coin
- Guizhou Tire
- Sailun Tires
- Linglong Tire

