



# Sustainability Report 2018

CHINA SUNSINE CHEMICAL HOLDINGS LTD.



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## Chairman's Message 主席致辞

**Enterprises will thrive by  
being thrifty, charitable,  
and steadfast in constantly  
reviewing past performance  
with a clear mind**



On behalf of the Board, 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 on 31 December 2018 ("FY2018").

The Group achieved unprecedented success in 2018, thanks to the Group's consistent focus on environmental protection, safe production methods, as well as allocating huge investments in both manpower and facilities.

Environmental protection is the top priority of enterprises, as it is a basic guarantee for sustainable growth. Like all other chemical products, the rubber chemicals industry covers diverse fields such as nature, chemistry, environment, safety and humanities. While making great contributions to the society, the industry also assumes heavier social responsibilities.

As environmental protection regulations become stricter, and with people's rising desire and emphasis on environmental protection, we must set higher standards for ourselves in environmental protection, safe production, technological innovation, and green production.

We will continue to reduce energy consumption, reduce, treat and recycle waste, and eliminate hazardous waste generation. In furtherance of these objectives, we will enhance employees' awareness of environmental protection and safety, and implement strict rules and regimes to integrate sustainable development concepts into daily work routine.

While all these efforts have helped the Group in maintaining market leadership position amidst intense competition, we believe that we have a big role to play in creating more value for society. The Group is mindful of its social responsibility as well as stakeholders' interests. The Group actively fulfills its corporate social responsibilities through contributions to various charities, poverty alleviation, scholarships, and job creation. The Group also encourages employees to achieve their self-worth and ideals, delivers greater returns for its shareholders, and shares the fruits of success and experiences with peers in the industry and stakeholders. All these go towards contributing to the building of a harmonious society.

"Enterprises will thrive by being thrifty, charitable, and steadfast in constantly reviewing past performance with a clear mind". No matter how successful we are and what difficulties we are confronted with, we must keep a clear mind, remember the mission, and continue to remain true to our original mission and aspiration. Let us work together to create a better future!

Yours sincerely,

**XU CHENG QIU**

Executive Chairman

March 2019

## Chairman's Message

### 主席致辞

# “勤俭慈善事业兴 奋斗不息常自醒”

我谨代表董事会，很高兴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”）在截至2018年12月31日的2018财年的《可持续发展报告》。

集团在2018年取得了前所未有的辉煌业绩，得益于集团一直以来注重环境保护、安全生产并为此付出的巨大精力和投入。

抓好环保是企业发展的第一要务，是企业可持续发展的根本保证。像所有其他化工品一样，橡胶助剂行业涉及自然、化学、环境、安全、人文等各个领域，对社会的贡献巨大，同时也承担更多的社会责任。

随着环保法规更严格的要求和人们对环保的重视和期待，我们必须以更高标准要求自已，在环境保护、安全生产、技术创新、绿色生产等各方面进一步提升。

进一步做好节能降耗、减排治污、废物利用、消除危废等方面的工作；同时，增强员工的环保和安全意识，落实各项规章制度的严格实施，将可持续发展理念融入到日常工作中。

我们所做的这些在环保和安全方面的努力，帮助集团在激烈的竞争中脱颖而出，保持了领先的市场地位；同时，我们相信，我们也能为社会创造更大的价值。集团牢记社会责任和各方利益，积极投身各种公益、慈善事业，积极参与扶贫工作，捐资助学、增加就业；激励员工实现自我价值和理想，提高股东分红，与行业和客户共享成果和经验，为构建和谐社会作出了积极的贡献。

“勤俭慈善事业兴 奋斗不息常自醒”。无论面对成绩还是困难，我们都要保持清醒的头脑，牢记使命，不忘初心。让我们一起携手，共创美好的未来！

此致，

徐承秋  
执行主席

2019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 chemical producer, and was listed on the Main Board of the Singapore Exchange 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 a total asset of RMB 2.75 billion, 2200 employees, 700 professional technical staff over 40 years of development. There are four production bases - Shandong SunSine, Weifang SunSine, Sheng Tao and Guang Shun. The products include Rubber Accelerators, Insoluble Sulphur and Anti-Oxidant. Our products are widely used in and for the manufacture of rubber, tires,

shoes, belts, pharmaceuticals and agrochemicals. Our products are exported to over 40 countries and regions. We are number one globally in market position based on total sales volume. We have over 1,000 customers, including the global top 75 customers in the tire industry. Guided by our policy of “Adhering to technology, market-oriented focus and product quality for sustenance; Striving to open up new markets, actively developing new products, and improving the Group entirely”, we assume the leading role of developing the world’s rubber chemicals, rely on independent innovation to upgrade the industrial transformation, and strive to achieve energy-saving emission reduction and healthy 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40年的发展，目前拥有总资产27.5亿元，员工2200多人，专业技术人员近700人，辖山东尚舜、潍坊尚舜、盛陶化工、广舜热力四个生产基地。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1000多家的客户，包括服务超过65%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

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 references the Global Reporting Initiative (GRI) Standards. This report highlights the key economic, environmental, social and governance (EESG) related initiatives carried out during the 12-month period from 1 January to 31 December 2018, supported by data on Lagging and Leading performance indicators.

We welcome feedback from our stakeholders with regards to our sustainability efforts as this will enable us to improve our policies, systems and results. Please send your comments and suggestions to ‘srfeedback@sunsine.com’.

In 2018, we received feedback as well as suggestions for our Sustainability Report which we greatly appreciate. In this report, we have taken on-board some of these feedback and suggestions. In addition, we have included a Survey Feedback Form on the last page of this Sustainability Report. Please take a moment to complete the Survey Feedback Form and send a copy to the above email address. Thank you!



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进行编写。此报告披露了中国尚舜集团在2018年度的12个月内，即，从2018年1月1日到2018年12月31日，对经济、环境、社会 and 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。

我们欢迎利益相关方对于可持续发展的努力给予反馈，这样能帮助我们提高和改进我们的政策、系统和成绩。请把反馈意见和建议寄到 srfeedback@sunsine.com.

2018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，我们采用了部分的建议。并且，为了进一步的提高报告的水平，我们在报告的最后加入了一张简单调查反馈表，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，并扫描电邮至上述邮箱。十分感谢！

# Our Approach To Sustainability 可持续发展方法

## SUSTAINABILITY STEERING COMMITTEE 可持续发展工作委员会



To enhance our sustainability governance, the Company established a Sustainability Steering Committee led by the General Manager, in 2017. We conducted a materiality assessment during the year with the help of an external consultant. Going forward, materiality review will be 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工作委员会，公司副总经理及各部门主管担任委员会成员，并同咨询师们一起召开了可持续发展评估的研讨会，来确定对于我们公司的利益相关方和重要指标。重要指标将会在利益相关方的反馈基础上每年评估。

## Our Approach To Sustainability 可持续发展方法

### SUSTAINABILITY REPORTING PROCESS

可持续发展报告程序





## Our Approach To Sustainability 可持续发展方法

### STAKEHOLDER ENGAGEMENT 重要利益相关方互动

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.

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：

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。

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 queries 电邮 Customer visit 客户拜访 Onsite audit 客户现场审计 Customer survey 客户调查表 Information disclosure 相关信息披露	Compliance operation 合规运营 Provide green quality products 提供绿色优质产品 Provide quality services 提供品质服务 Rights protection 权益保障	Spare 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 Establish a two-way communication mechanism with customers 建立客户双向沟通机制 Customer Satisfaction Survey 客户满意度调查
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 disclosure 相关信息披露	Guarantee their basic rights and interests 保障基本权益 Offer suggestions for enterprise development 为企业发展提供建议 Develop employee capabilities and Promote 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 Share the development achievements with the Company 共享企业发展成果	Protection of employee lawful rights and interests 保障员工合法权益 Create a good working environment 创造良好工作环境 Organize employees' representative conferences 召开职工代表大会 Carry out employee training 实施员工培训 Promote the reward system for rational proposals 实行合理化建议奖励制度 Increase input 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

## Our Approach To Sustainability

### 可持续发展方法

#### STAKEHOLDER ENGAGEMENT

##### 重要利益相关方互动

Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key concerns and expectations 主要诉求	Our Responses and Actions 履责行动
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	Serve community development 参与社区建设 Work for public benefit 投身社会公益 Create job opportunities 提供就业机会 Help poor and disadvantaged groups 支持贫困地区和弱势群体	Drive employment and local economic development 带动就业和当地经济发展 Support local suppliers 扶持本地供应商 Support education 支持教育事业 Volunteer activities 志愿行动 Contribute 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	Abide by laws and regulations 守法合规 Serve national economic development 服务国家和当地经济发展 Increase the local employment rate 带动当地就业 Ensure production safety 确保安全生产	Pay taxes 依法纳税 Report work regularly 定期汇报工作 Realize prudent operation 实现稳健经营 Strengthen safety management 加强安全管理 Most of our employees are local 当地招聘员工
Suppliers and service providers 供应商	Face-to-face meetings 定期会晤交流 Annual review and feedback sessions 年度审核及回馈	Realize fair and transparent procurement 实施公平、透明采购 Promote joint development 促进共同发展 Timely fulfilment of the contracts 按时履行合同	Promote stable purchasing policy 推行稳定采购政策 Establish fair and transparent procurement principle and process 建立公平透明的采购流程 Help suppliers make progress 帮助供应商进步

## Our Approach To Sustainability 可持续发展方法

### STAKEHOLDER ENGAGEMENT 重要利益相关方互动

Stakeholders 利益相关方	Engagement and Communication Channels 沟通渠道	Key concerns and expectations 主要诉求	Our Responses and Actions 履责行动
Investors/Shareholders 投资者/股东	Group Annual Report 集团年报 Annual General Meeting 年度股东大会 Quarterly result briefings 季度业绩简介会 Informal discussion 非正式讨论 Announcement 公司公告	Enhance earnings capacity 增强盈利能力 Improve corporate governance structure 完善公司治理结构 Perform the obligation of information disclosure 履行信息披露义务	Comply with relevant listing rules and regulations 严格遵守上市公司准则 Realize healthy growth 实现健康增长 Establish shareholder communication mechanism 建立股东沟通机制 Issue annual report on a regular 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	Participate in the standardisation process of the industry 参与行业标准的制定 Contribute to the sustainable development of the industry 促进行业持续健康发展 Stimulate the technology transformation, upgrading and innovation 促进技术进步和产业转型升级	Actively participate 积极参与 Enhance innovation 加强技改 Promote Industry optimisation 促进产业优化
Media 媒体	Media releases 新闻稿 Quarterly result briefings 季度业绩简介会		

# Our Approach To Sustainability

## 可持续发展方法

### MATERIAL ASPECTS ASSESSMENT

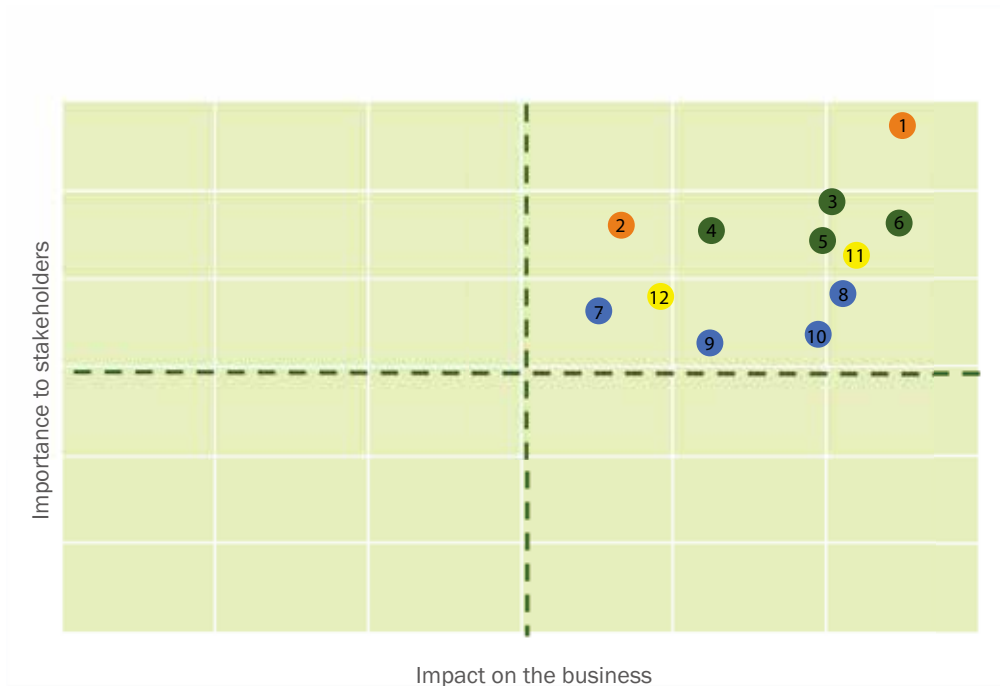
#### 重要指标评估

To determine if an aspect is material, we assessed its potential impact on the economy, environment and society, and the influence on the stakeholders. Senior management took part along with our consultant. Aspects were identified and prioritised through internal workshops, peer reviews and social impact assessments at site level. Applying the guidance from GRI, we have identified the following material aspects:

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。

高级管理层与咨询师一起参与，通过内务商讨，同行审阅以及各个分部对社会的影响力，指标及其重要优先性也被确定了。

根据全球报告倡议组织指南，我们确定了以下重要指标：



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

## Economic 经济

### ECONOMIC PERFORMANCE 经济绩效

At China SunSine, we believe in creating long-term economic value for all our shareholders and key stakeholders by adopting responsible business practices and growing our business in a sustainable manner. For detailed financial results, please refer to the following sections in our Annual Report 2018:

- Financial Highlights, pages 2 - 3
- Financial Review, pages 10 - 13
- Financial Statements, pages 48 - 98.

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

关于具体的财务表现，请参照 2018 年报：

财务摘要，年报第 2 - 3 页

财务分析，年报第 10 - 13 页

财务报表，年报第 48 - 98 页

### PRODUCTION 生产量

We have achieved rapid capacity expansion since our IPO. Total annual production capacity increased by almost five times from 26,000 tonnes p.a. in FY2007 to 152,000 tonnes p.a. in FY2018, and will be reaching 192,000 tonnes at the end of FY2019. During the year, the expansion of new Phase 1 10,000-tonnes TBBS production line has been completed in Shanxian, and the Group will commence the expansion of Phase 2 of another 20,000-tonnes TBBS production line in 2019. This new TBBS line is the first ever continuous, fully-automated and greener production line in the China rubber chemical industry, and it also achieved "zero discharge" of wastewater. Other than the capacity expansion, we continue to diversify our product range. We have reserved land space in our 5 existing production sites and are exploring opportunities to further increase our capacity. In March 2019, the Group's main subsidiary, Shandong SunSine had entered into an Investment Agreement with Shanxian Local Government, pursuant to which the Local Government has agreed to grant Shandong SunSine a piece of land located in Shandong Shanxian Chemical Zone, for Shandong SunSine to carry out an investment project in phases to further expand its capacities in Rubber Chemical products, for a total investment amount of up to RMB 2.5 billion, of which RMB 1.5 billion will be invested in property, plant and equipment. With the acquisition of this land, the Group is building up another comprehensive production base to expand its production capabilities, and will further strengthen its market leadership position in the rubber chemicals industry in the world.

自 IPO 以来，我们取得了快速的产能扩张。总生产能力增长了近五倍，从 2007 年的每年 26,000 吨增长到 2018 年的每年 152,000 吨，并在 2019 年底将达到每年 192,000 吨。集团位于单县化工园区的新厂区 10,000 吨 / 年 TBBS 车间已建成投产，且将在 2019 年进一步扩大产能，最终形成 30,000 吨 / 年的生产规模，该装置在行业内率先实现了促进剂产品的连续化、自动化、绿色化生产，实现了废水的零排放。除了产能扩张，本集团继续产品范围多样化。本集团现有 5 个生产基地，并与当地政府探讨进一步增加产能的机会。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

We have established a mid-term target to achieve the following production quantities by the 13th Five-Year Plan (i.e. by end of year 2020) for Economic and Social Development of the People's Republic of China. We aim to achieve this target by end of FY2019.

- Rubber accelerators: 117,000 Tonnes
- Insoluble sulphur: 30,000 Tonnes
- Anti-oxidant: 45,000 Tonnes.

Our objective is to enhance our brand name and quality, and optimise our cost-structure. We will maximise the scale and efficiency of our production to maintain our current market advantage in an environmentally-friendly way. We will continue to focus on the production of rubber accelerator products and enhance our position as a global leader in this field. In addition, we aim to increase our market share of insoluble sulphur and anti-oxidant products.

In line with the strong growth in the automotive and tire industries, and coupled with our strengths in quality, large production scale, product range, cost, environmental and market leadership etc., our FY2018 total production and sales volume soared to 153,563 tonnes and 151,486 tonnes (2017: 141,704 tonnes and 140,476 tonnes) respectively. We are proud to achieve these new highs.

我们建立了中期目标 - 在“十三五”末（2020年底），实现促进剂产能 11 万 7 千吨，不溶性硫磺产能 3 万吨，防老剂产能 4 万 5 千吨，整体产能实现 19 万 2 千吨。此目标将提前至 2019 年底达成。

我们也建立了长期目标：抓住橡胶助剂的主业，巩固提升促进剂在全球的领先地位，扩大不溶性硫磺的市场规模和占有率，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，做强做大橡胶助剂主要产品。

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，集团在 2018 年度的产销量得到进一步的提高，全年产销量各为 153,563 吨及 151,486 吨（2017: 141,704 吨及 140,476 吨），再创历史新高。

## Economic 经济

### MARKET PRESENCE 市场表现

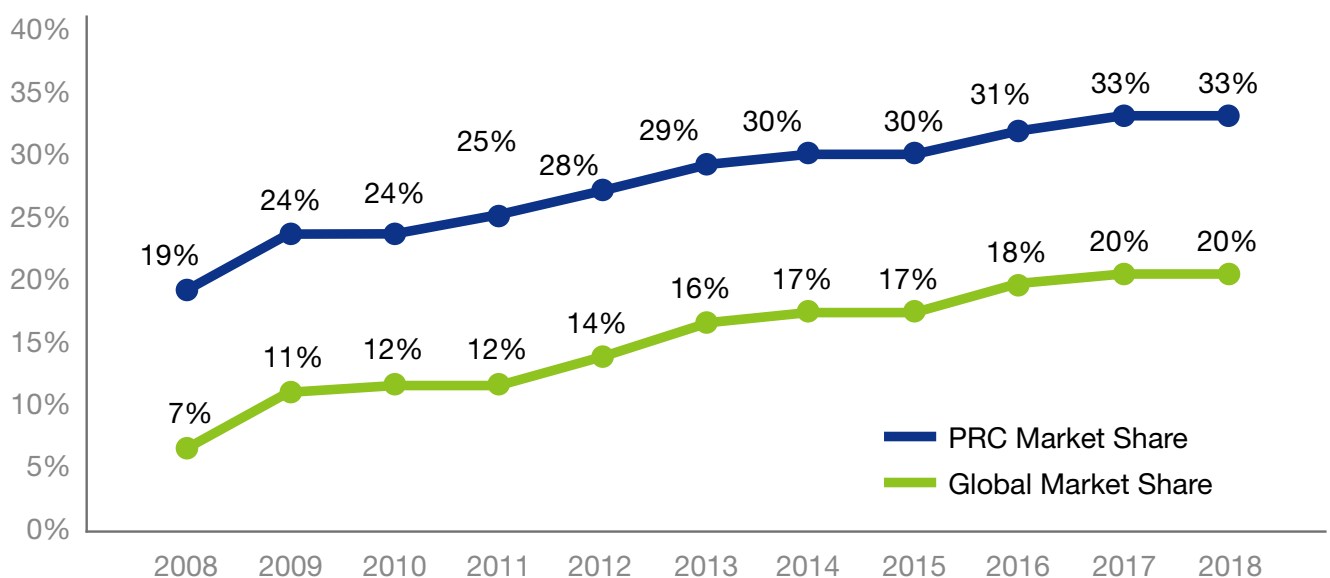
Our customers are mainly tire companies that provide products and services to the automobile industry. We have over 1,000 customers around the world and continue to serve more than 2/3 of the Global Top 75 tire makers, such as Bridgestone, Michelin, Goodyear, Pirelli, Sumitomo, Hankook, YOKOHAMA, CST Tires, Kumho Tires, as well as PRC tire giants such as Chao Yang and GITI Tire.

The market for our main product, Rubber Accelerators, continues to grow. There is no publicly available data on the domestic or global market size of this product. Hence, we have performed our own assessment of our share of the markets 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 2/3 的全球顶级 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。

我们的主要产品 - 促进剂的市场份额持续增长。由于无国际和国内促进剂市场规模与公开信息, 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。

### MARKET SHARE 市场份额



## Economic

### 经济

#### ANTI-CORRUPTION 反腐败

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China SunSine does not tolerate corruption in any form. Any report of corruption will be escalated to the attention of the Chairman. There is no 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 an email that is only accessible by the Audit Committee Chairman. Similar to FY2017, there were no reported incidents of corruption during FY2018.

中国尚舜不容忍任何形式的腐败。任何腐败报告都将上报主席。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。与2017财年类似，2018财年没有腐败事件报告。



Target:

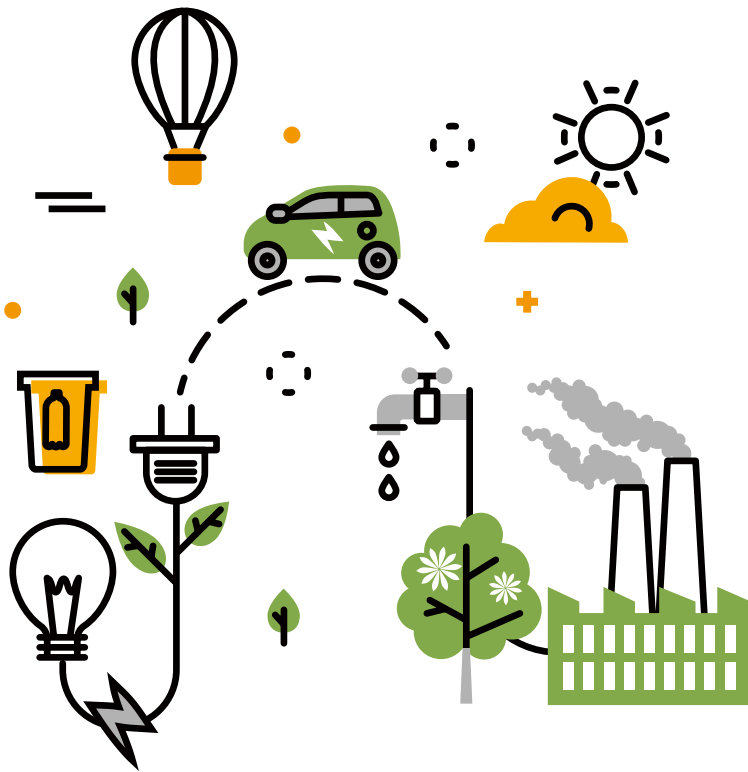
**TO MAINTAIN ZERO  
INCIDENTS OF CORRUPTION.**

目标:

**保持零腐败率。**



## Environment 环境



As a chemical company, environmental protection is a very important issue to us. We focus on creating value through our offering of products and services that minimally impact the environment, whilst also engaging in 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 carefully monitor wastewater, toxic gases, odour and all waste treatment processes. We use an approach we call “from the source, control the middle, govern the end” to achieve sustainable development and overcome any challenges we encounter along the way.

We have implemented ten key environmental policies which are in accordance with environmental laws and regulations issued by the Authorities. These will raise the Group’s environmental management and technological capabilities. These initiatives are: 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, contingency plans, a fully operational laboratory, a system of accurate operational records, and a high performance environmental management team.

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

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



## Environment 环境

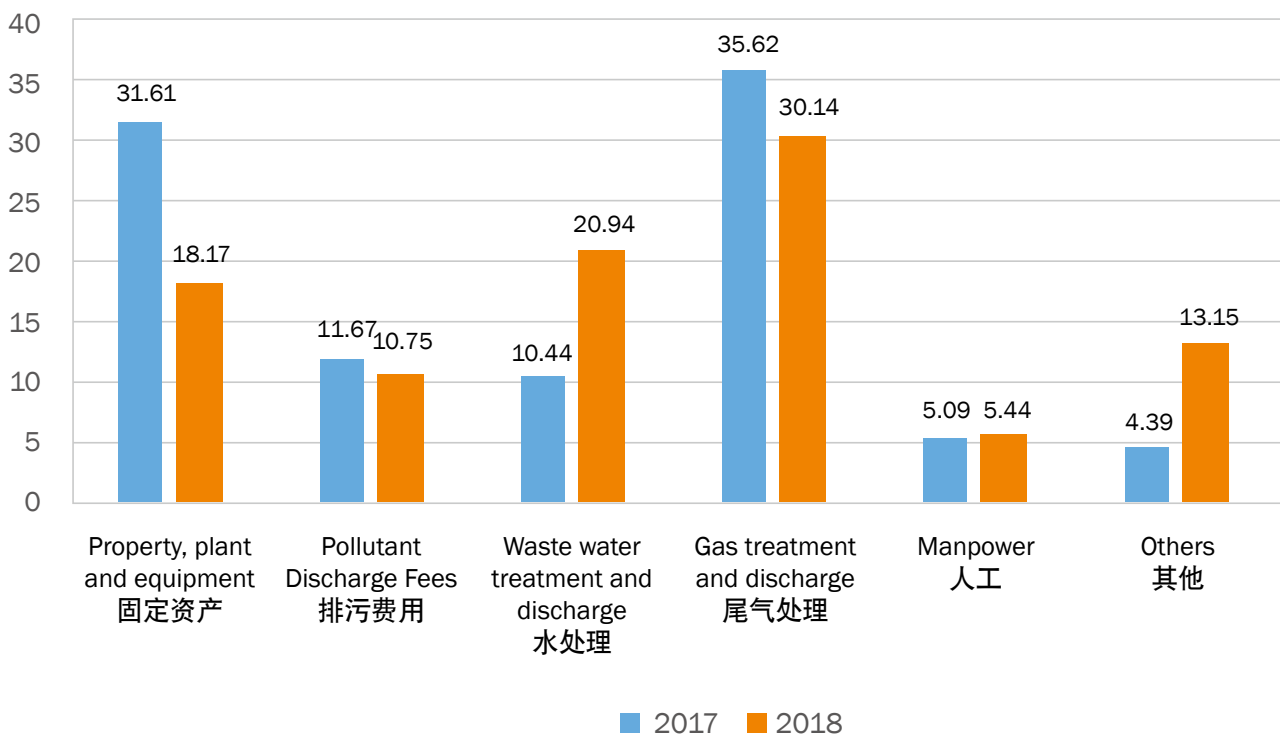
Our environmental management team comprise more than 40 employees, all of whom are well-equipped with relevant environmental protection knowledge and experience. This includes five post-graduate staff specialised in environmental protection and 12 undergraduates who are dedicated to the Company's environmental research and provide support for our environmental protection technology. We have also formed an Environmental Protection Committee which consists of the General Manager and the Environment Manager to oversee the implementation of environmental protection technology.

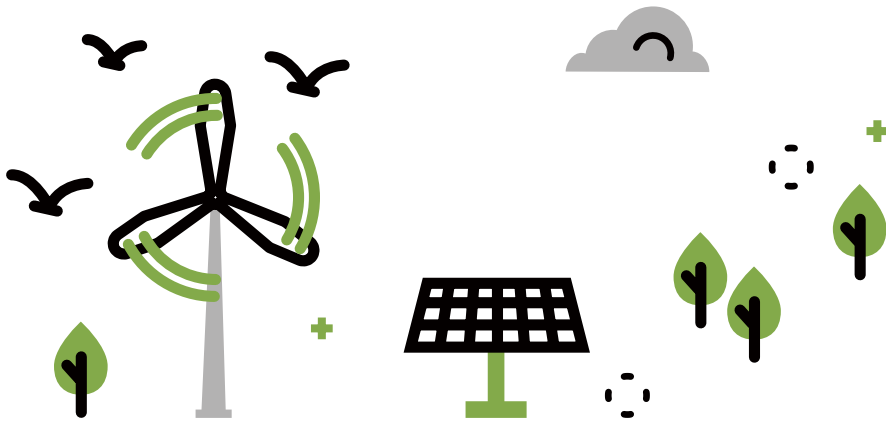
We continuously seek to improve our environmental protection capabilities. The table below shows our commitment to continuously invest in environmental protection related measures. The expenditure incurred in environmental protection in 2018 is comparable to that incurred in 2017.

公司目前拥有一支实力雄厚的环保专业队伍，环保专业人员40余人，其中环境专业研究生5人，本科生12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，2018年在环境保护方面的投资与2017年基本持平。

In RMB' million





## Environment 环境

### ENERGY 能源

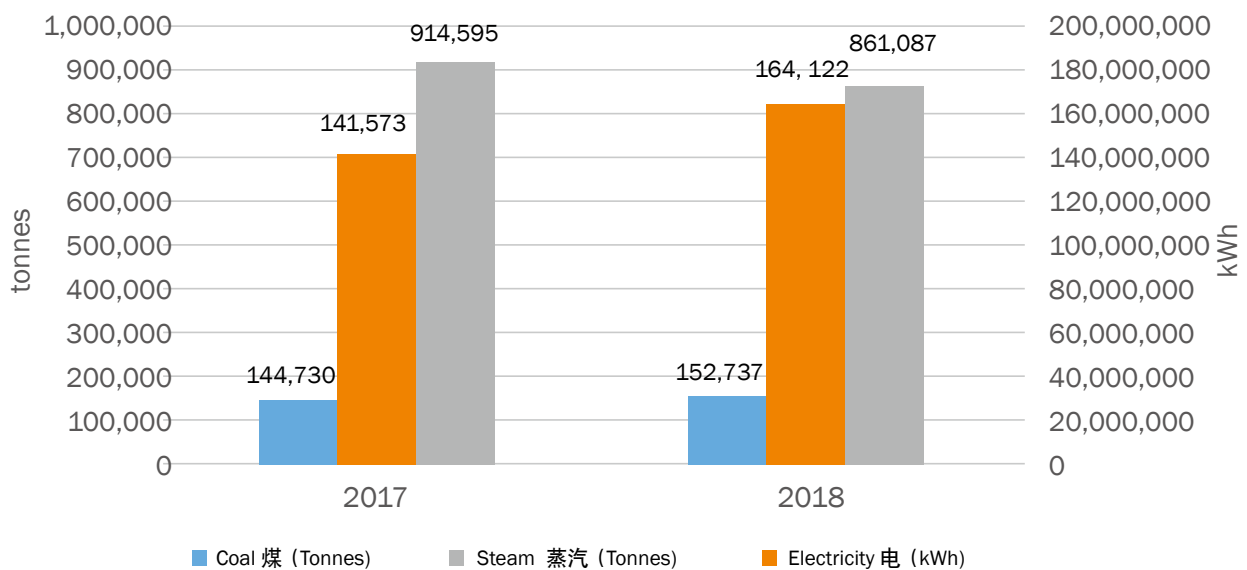
Our production facilities use coal, electricity and steam. Coal is used to produce steam required for the desiccation process.

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。

The two tables below show our total energy consumption as well as energy consumption rate per unit. Our total energy consumption for 2018 compared to that for 2017 have increased in line with higher production volume. The increase in unit power consumption is mainly due to installation of new environmental protection devices. The unit energy consumption of steam decreased year-on-year due to an increase in production volume and implementation of steam saving measures. These demonstrated our continuous improvements in energy management.

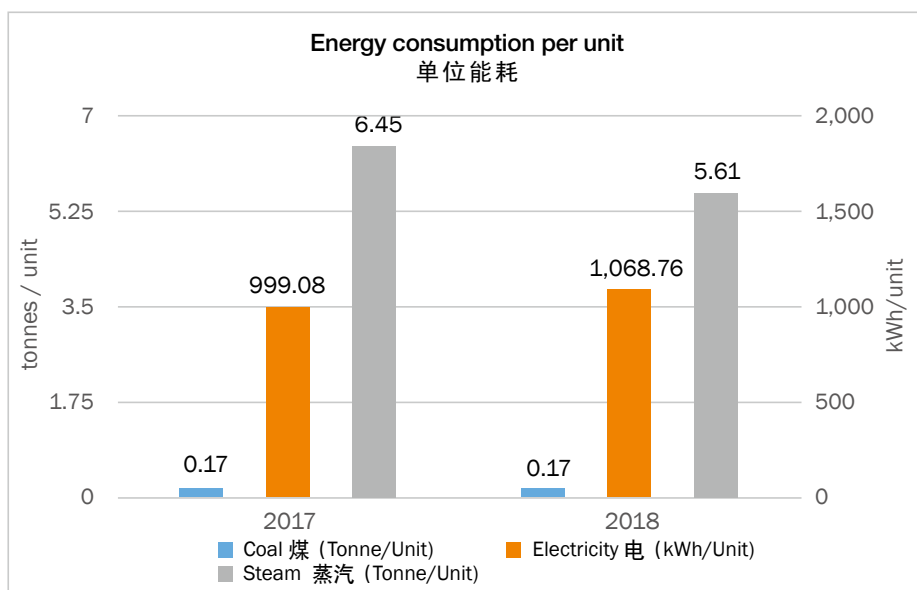
下面两个图表列明了我集团 2017 和 2018 年度的总体能耗及单位能耗。2018 年总体能耗由于产量的提高而有所提高。煤的单位能耗相对 2017 年保持不变。单位电耗增加主要是因为新上环保装置耗电较多。蒸汽单位能耗同比下降，是由于产量的提高和采取了有效的节约蒸汽措施。这些都显示出我集团在能源管理上的不断进步。

Total Energy Consumption  
总体能耗



## Environment 环境

### ENERGY 能源



To reduce emissions, wastages and environmental pollution at Shandong Shanxian Chemical Industrial Zone, Shanxian local government authority required all companies to stop using their own boilers. And the local authority has also appointed our Group to set up a centralised heating company to provide steam and electricity to all other companies in the industrial zone. 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 I of this construction, consisting of 2 boilers (1 in use and 1 on standby) and 1 generator, has commenced its operations at the end of 2013. The bulk of the steam and electricity generated by Guangshun Heating is consumed mainly by the Group, and the balance by other companies in the industrial park. Phase II of the construction to add on 1 boiler and 1 generator was completed in 2018 and has commenced operations in 2018.

In 2018, approximately 59,670,000 kWh (2017: 52,520,000 kWh) of electricity and approximately 832,789 tonnes (2017: 679,736 tonnes) of steam were generated by Guangshun Heating and consumed by the Group. (Note: The tables above include internally generated and consumed steam and electricity.)

为了减低公司所在地 – 山东单县化工业园区的排放，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。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。2018年，二期项目的“1炉1机”的建设项目也已投入使用。

2018年，广舜热力生产的用于集团内部消耗的电力为5,967万度（2017年5,252万度），蒸汽为832,789吨（2017: 679,736吨）。这些内部产生并消耗的汽、电尚未在上表中剔除。

## Environment 环境

### ENERGY 能源

To manage energy effectively, we have adopted the following measures: 为作好能源管理工作, 我们采取了以下措施:

1. Communicate national and local energy conservation laws and regulations and the Group's energy management policies with management and staff to enhance their awareness.
  2. Comply strictly with the "Responsibility System for Performance Management of Workshop Objectives" formulated by the Group to establish and improve various energy-saving management systems.
  3. Require routine regular inspections and monitoring by the energy management staff to monitor 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, transform obsolete production equipment and improve waste heat utilization. Out of the 38 energy-saving proposals submitted during the year, 37 were effectively implemented which resulted in apparent improvements.
- 1、认真贯彻传达国家、地方的节能法律法规以及公司的能源管理规章制度, 全面提高各级管理人员的节能意识。
  - 2、严格执行公司制定的《车间目标管理绩效考核经济责任制》的相关规定, 建立健全各项节能管理制度, 并加强学习与实践。
  - 3、能源管理人员加强日常巡回检查和考核工作, 对查出的问题, 制定措施, 限期整改, 消除能源跑、冒、滴、漏等浪费问题。
  - 4、督促各车间节能管理员定期或不定期开展节能检查和用能分析, 并将检查记录和用能分析报表按时上报到节能办备案, 限期整改, 确保整改率达 100%。
  - 5、做好重要能源因素的识别和评价工作, 制订对重要能源因素的控制办法, 并对其控制过程进行监督、检查、指导、管理。
  - 6、各车间积极围绕节能目标建立能源管理体系, 采取有效节能措施, 做好节能基础工作, 节能办公室对各车间、工段节能目标统一管理并考核。
  - 7、定期对主要耗能设备运行状况进行监测并建立相关记录, 识别评价出具有节能潜力的用能设备并提出改进措施。
  - 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。全年各部门及节能办共提报节能方案 38 项, 已改造完毕 37 项, 效果良好。

Target: **WE AIM TO REDUCE ENERGY CONSUMPTION BY 4% OF THE PLANNED QUOTAS.**

目标: **确保能源消耗不超定额并在此基础上下降 4%。**

## Environment 环境

### WATER 水资源

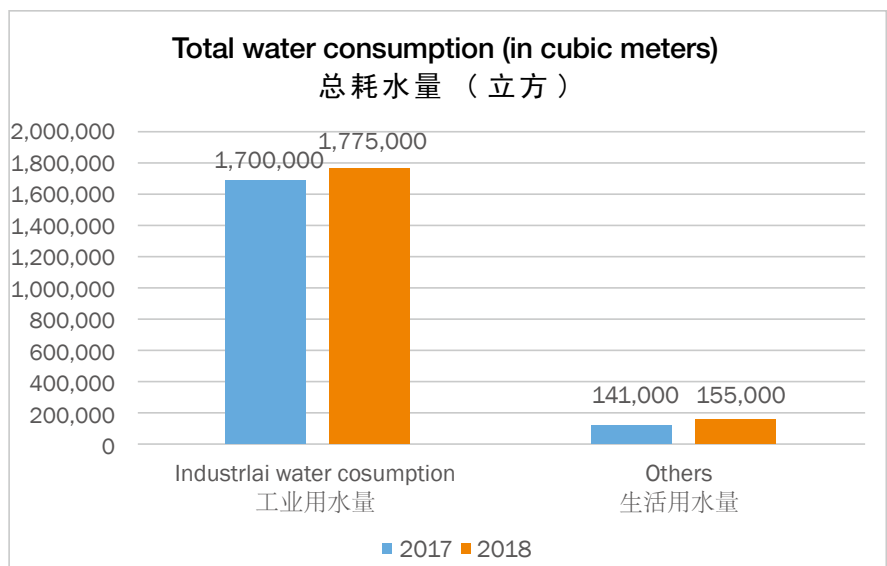


We consume a significant amount of water during production, predominantly industrial water. Industrial water is required for generating steam in order to dilute any chemicals released during production and to reduce temperatures.

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。

Though our water consumption is higher in FY2018 compared to FY2017, which is in line with increased production and thermal load, the water consumption per unit has reduced due to adoption of water-saving initiatives and increased use of recycled water. We remain committed to use water as efficiently as possible.

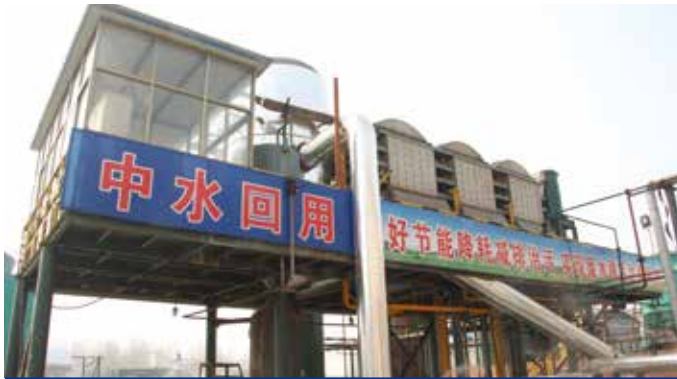
2018 年的用水量同比较高，原因为 2018 产量较高和热力负荷增大，比 2017 年增加了 11,859 吨产量。然而，因为我们采取了节水措施，加大了中水回用量，单位耗水量同比 2018 年有所下降。同时，我们也承诺尽可能的有效用水。



Target: **WE AIM TO MAINTAIN THE SAME LEVEL OF WATER CONSUMPTION PER UNIT.**

目标: **单位总耗水量不增加。**

## Environment 环境



### WASTEWATER RECYCLING AND DISCHARGE 废水回收及排放

All wastewater generated from the production process are 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 waste water 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 on pre-treatment, recycling as well as the bio-treatment of wastewater, and improves all employees' quality. We spare no effort in harnessing our human, technological and financial resources to ensure our wastewater discharge fulfills 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 and continuous 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.

We enhanced our water efficiency and encourage water conservation during the year. In FY2018, the Group discharged wastewater totalling 842,000 cubic metres (2017: 846,000 cubic metres), and waste water recycling amounted to 1,204,000 cubic metres (2017: 1,197,000 cubic metres).

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

由于采取节水措施，集团在 2018 年共排放废水 842,000 立方 (2017: 846,000 立方)，并回收废水 1,204,000 立方 (2017: 1,197,000 立方)。

**TARGET: WE AIM TO REDUCE DISCHARGED WASTEWATER PER UNIT AND INCREASE AMOUNT OF WASTEWATER TO BE RECYCLED.**

**目标：减少单位废水排放量，增加废水回收量。**

## Environment

### 环境

#### EMISSION

#### 排放

Hydrogen sulphide created during our 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 our thiazoles accelerator, MBT.

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 CS<sub>2</sub> recovery facility. Our conversion recovery rate is consistently above 99.5%.

The Group made further investments to enhance odour emissions control, as follows:

1. Implemented the “Feasibility Plan for Promoting Odour Control” published by the Chinese Academy of Environmental Sciences, where hydrogen sulphide generated should be categorised and analysed. RTO (Regenerative Thermal Oxidizer) incineration is used to treat highly concentrated hydrogen sulphide. RTO incineration plans will be screened and suitable plan is selected for implementation;
2. Installed a fully automated wastewater evaporator at MBT workshop to enhance wastewater management and recycling;
3. Hydrogen sulphide from MBT workshop evaporation area was collected and treated using RTO incineration. The discharged toxic gas from 4020 small and high-grade oxidation area was collected using airtight method and treated using the spray absorption process. The DZ multi-effect Fenton change tank and the mother liquid open tank were sealed and RTO incineration treatment was adopted. The feeding ports in NS1, NS2 and CBS workshops were treated using ventilation, dust removal and absorption measures;
4. Installed a cryogenic recycling equipment in Shandong Shengtao Chemical Co.,Ltd to recycle carbon disulfide used in our Insoluble Sulphur workshop. More than 2 tons of carbon disulfide were recycled every day, achieving both economic and environmental sustainability;
5. Establish a VOC (“Volatile organic compounds”) action plan, focusing on leakage detection and repairs as well as to recycle these VOC.

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 gained EMS GB/T24001-2016/ISO14001:2015.

The toxic gas emission is monitored in real-time by the local Environmental Department and government authority. In 2018, we complied with the Authority’s limits (SO<sub>2</sub> ≤ 35 mg/m<sup>3</sup>, NO<sub>x</sub> ≤ 100 mg/m<sup>3</sup>, dust concentration ≤ 20 mg/m<sup>3</sup>) set for the toxic gas emission. In line with lower MBT production volume in 2018, the total volume of sulphur recycled is 11,409 tons (2017: 11,237 tons). The recycling rate remains above 99.5% (2017:99.5%). Such recycling process has reduced production cost by RMB 13.79 million (2017: RMB 13.58 million).





## Environment 环境

### EMISSION 排放



在生产过程中产生的有毒废气硫化氢,对人体健康和环境有害。我们的废气回收装置能够从硫化氢气体中回收出硫磺,此回收的硫磺在生产过程中可以循环使用,比如在我们生产噻唑类促进剂 MBT 和硫化剂不溶性硫磺时使用。

在废气异味治理方面作为同行业第一家,率先投资 3000 余万元上马了超级克劳斯炉和 CS<sub>2</sub> 回收装置,对公司废气进行彻底治理,转化回收率达到 99.5% 以上。

为进一步治理废气和异味,2018 年公司又实施了下列工程:

1. 积极结合中国环科院推进异味治理可行性方案,将厂区异味点源分类分析,拟对浓度相对较高的异味源采取 RTO 焚烧,并筛选 RTO 焚烧方案;
2. 在 MBT 车间废水新上了一套全自动多效蒸发器,使得车间废水得到有效处理,实现部分回用;
3. 对 MBT 车间多效蒸发区域异味进行收集并引入 RTO 焚烧处理,将 4020 小高级氧化区域废气密闭收集,采用喷淋吸收工艺处理,对 DZ 多效芬顿变化罐和母液敞口罐进行了密

封并入 RTO 焚烧处理,对 NS1、NS2 及 CBS 车间的投料口采取引风除尘吸收措施治理等等;

4. 针对橡胶用不溶性硫磺车间二硫化碳气体,在山东盛陶化工安装了深冷回收设备,每天可回收二硫化碳 2 吨以上,实现经济效益和环境效益的双丰收;
5. 开展 VOC 集中治理工作,源头开展“泄漏检测与修复”工作,针对 VOC 进一步收集,采用喷淋吸收等工艺回收利用。

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。

在 2018 年,毒气排放量在政府允许范围内(SO<sub>2</sub> 含量 < 35mg/m<sup>3</sup>,氮氧化物含量 < 100mg/m<sup>3</sup>,粉尘含量 < 20mg/m<sup>3</sup>)。由于 MBT 总产量的提高,2018 年硫磺的循环使用量是 11,409 吨(2017 年: 11,237 吨),循环率高达 99.5% (2017 年 :99.5%)。回收硫磺经济效益达到人民币 1,379 万元(2017 年 1,358 万元)。

**TARGET: OUR GOAL IS TO KEEP THE TOXIC GAS EMISSION WITHIN STIPULATED REGULATORY LIMITS.**

**目标: 毒气排放量在政府允许范围内。**

### ENVIRONMENTAL COMPLIANCE 环境合规

As set out above, we have complied with the Authority's limits for the wastewater discharge and toxic gas emission in 2018.

如上所述,我们在 2018 年的废水和废气排放量在政府规定的限额内。

**TARGET: WE AIM TO COMPLY WITH ALL WASTEWATER DISCHARGE AND TOXIC GAS EMISSION REGULATORY LIMITS.**

**目标: 废水废气达标排放。**

# 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.

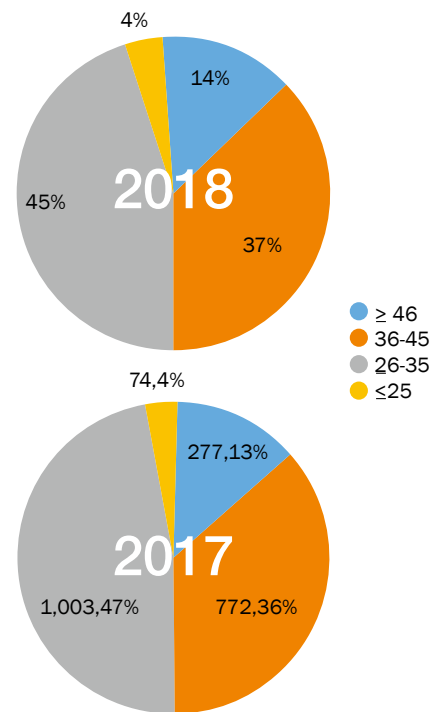
We give preference to the hiring of local talent in China. We are committed to provide competitive remuneration and benefits to our employees, which are consistently above the market rate in the provinces we operate in. We are also committed to safeguard our employees' health and safety against any potential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

中国尚舜承诺无种族、性别、宗教和少数民族歧视雇佣宗旨。在报告期限内无歧视案例。

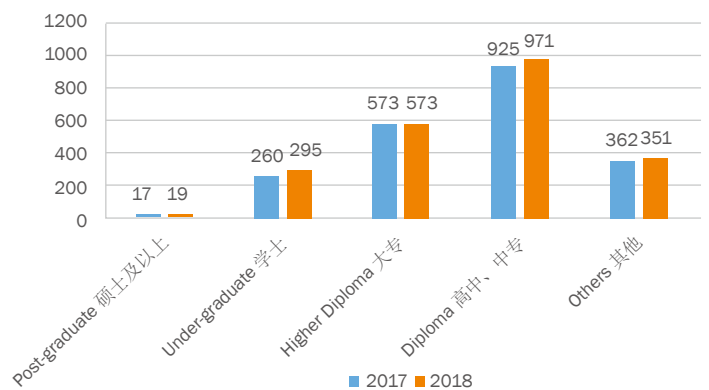
我们杜绝办公室或是工厂的未成年雇佣。

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。

Employees' profile by age  
员工按年龄分类



Qualification  
学历



## Social 社会

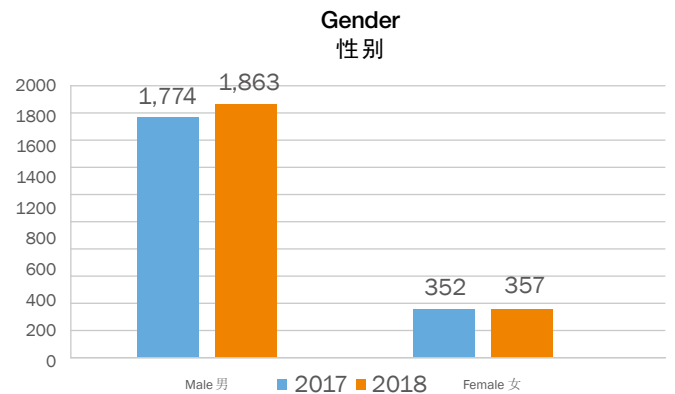
### EMPLOYMENT, DIVERSITY AND EQUAL OPPORTUNITY 雇佣，多元化和平等机会

Even though we operate in a male-dominated industry, 16% (2017: 17%) of our staff are female. We actively encourage women to join the business, and provide additional benefits such as medical check-ups specifically tailored to our female staff in addition to the annual check-up and gifts to our female staff during the Chinese Women's festival.

Our foundation for developing a sustainable business is to build an inclusive culture. Every year, the Group organises various activities such as sports days, speech competitions, a New Year's Gala Dinner and other activities 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 expect our employees to constantly challenge and improve themselves, we also require them to treat others equally, honestly and with respect.

尽管化工行业是男性主导的行业，中国尚舜集团的女性职员达到总员工人数 16% (2017:17%)。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。

加强文化建设是集团可持续发展的坚强基石。集团每年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。



## Social 社会

### EMPLOYMENT, DIVERSITY AND EQUAL OPPORTUNITY 雇佣，多元化和平等机会



On July 14, 2018, we held a conference for the publication of “China SunSine Annals” and promotion of the Company’s high-quality development. “China SunSine Annals” recorded our 40-year history and highlighted the valuable experiences learnt over these years. The conference showcased our progress and key milestones, as well as the remarkable achievements over the past 40 years. A grand blueprint is also mapped out in the publication. A special ceremony was held for the donation of the publications to the County Archives Bureau, History Annals Office, and Library.

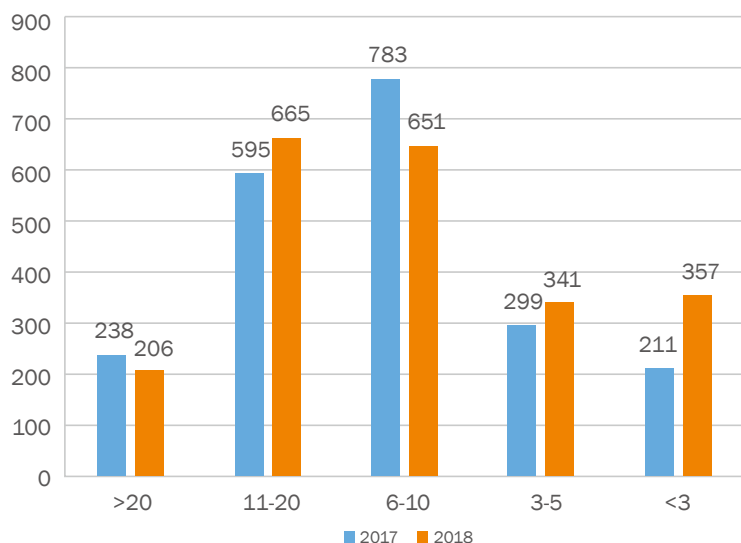
Staff turnover is low with less than 5% of the total headcount per annum. We do not hire part-time staff. 40% (2017: 39%) of our staff has been working with our Group for more than 10 years.

There were no incidents of discrimination during the reporting period.

2018年7月14日，《尚舜化工志》发行暨高质量发展推进会在尚舜化工隆重举行。《尚舜化工志》记载了尚舜化工40年的风雨历程，总结了尚舜化工成功的发展经验。会上回顾了山东尚舜化工有限公司40余年来的奋斗历程和取得的显著成绩，描绘了尚舜化工未来的美好蓝图；介绍了《尚舜化工志》成书经过及其主要内容，随后举行了赠书仪式，县档案局、史志办、图书馆以及尚舜化工各部门及子公司代表接受了赠书。

员工流动率每年少于总员工人数的5%。我们也没有雇佣兼职人员。40%（2017年：39%）的员工的在职年数已超过10年。

Length of service (no. of years)  
在职年数

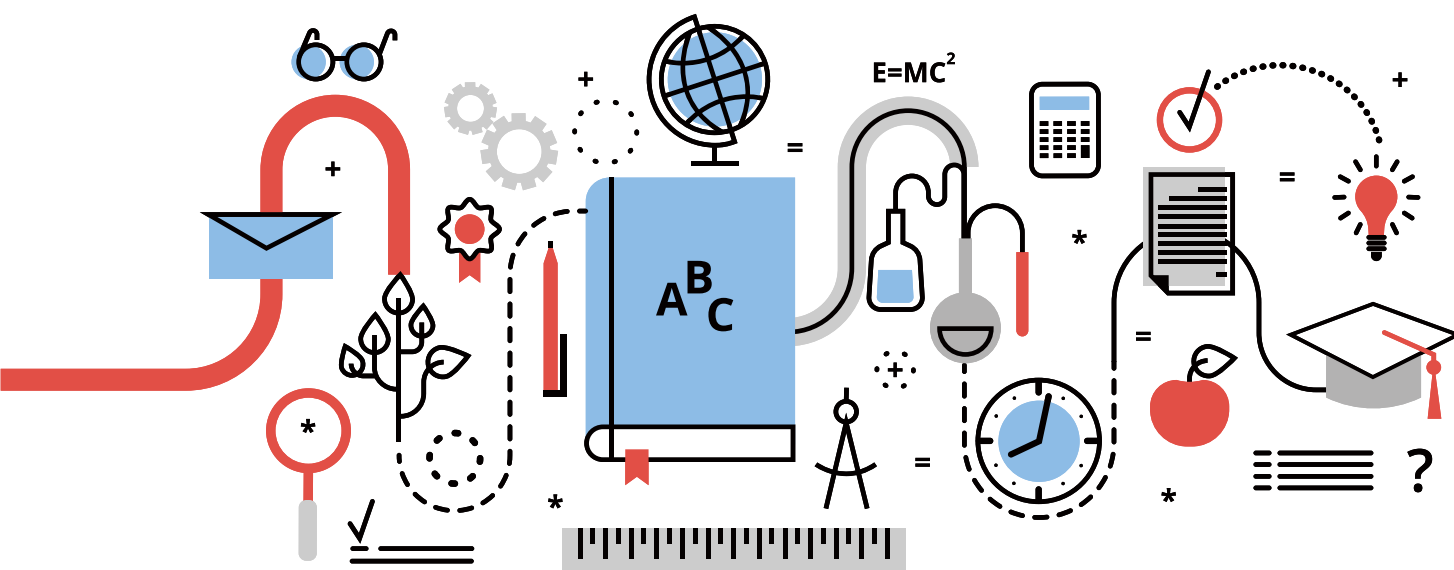


**TARGET:** CHINA SUNSINE’S RECRUITMENT OF STAFF IS BASED SOLELY ON MERIT, WITHOUT DISCRIMINATION OF RACE, AGE, GENDER, RELIGION OR ETHNICITY.

目标：中国尚舜承诺无种族、性别、宗教和少数民族歧视的雇佣宗旨。

## Social 社会

### TRAINING AND EDUCATION 培训与教育



We invest in comprehensive training to develop our employees to their maximum potential. The total training hours amounted to 2,743 hours in 2018 (2017:1,876 hours).

The following is a list of our training programme for 2018:

- New staff orientation (workers and management)
- Professionalism
- Management qualification
- Innovation
- Mindset Change
- Safety management
- Quality management
- Environmental case study
- Production management
- Equipment management
- Finance management
- Internal transfer training

我们注重员工培训，以使得员工的潜能得到提高。2018 年培训时间总共为 2,743 小时（2017 年：1,876 小时）。

以下是 2018 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
- 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

**TARGET: WE AIM TO CONDUCT AT LEAST 2,500 HOURS TRAINING IN 2019.**

**目标：2019 年计划培训时间不少于 2,500 小时。**

## Social 社会

### OCCUPATIONAL HEALTH AND SAFETY 健康和安



The safety of all our employees are of utmost importance. We acknowledge the production process involves dangerous, toxic or flammable raw materials. Therefore, we have implemented comprehensive safety and environmentally-friendly measures regulated by the relevant government authorities, and are subject 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.

## Social 社会

### OCCUPATIONAL HEALTH AND SAFETY 健康和安

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 test and obtain the requisite certifications established by the authorities. We have also set up a training center and improved our training facilities. During the annual safety month, all employees are required to study the materials issued by the State Administration of Work Safety. At least once a quarter, our Safety Production Committee conducts research, summarises, communicates, and deploys work safety activities. The production safety workshop conducts safety briefings before and after work on a daily basis in 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 identify focus areas for the following week.

We have established a comprehensive emergency response plan and registered this with the City Safety Supervision 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.

The 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 dual responsibilities over management and safety. We have also appointed a Safety Director, a Production and Safety Committee, and a Production and Safety 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 objectively review our production safety management system annually. Their coverage includes safety policies, site management, production technology, equipment and any other related aspects.

In 2018, we have reviewed and updated the "Safety Assessment Rules", and issued "Safety Cap Use Manual", "Contractor Safety Management Policy" and "Risk Classification and Management Policy for Production Safety". These further enhanced the production risk control and management system in the Company.

We have enhanced the risk management system and safety procedures covering special operations using fire, operations at confined space, high-altitude operations, inspection and maintenance process, and hazardous chemicals handling process, etc. During the year, we ensured the safety operation of these operations in all workshops.



## Social 社会

### OCCUPATIONAL HEALTH AND SAFETY 健康和安



We also made an effort on implementation of diagnosis activities for the design issues of production facilities in plant area, to ensure that the safety spacing and equipment layout of the production facilities conform to the safety requirements.

During the year, revision of the emergency plans and expert review of the plans were completed, and relevant documents were submitted to County Safety Supervision Bureau. In addition, we actively fulfilled the request of the County Safety Supervision Bureau by completing the drills for the comprehensive emergency plan for hazardous chemicals.

In 2018, we further enhanced our risk management system in terms of Risk Classification & Control Management and Risk Prevention and Detection of potential safety hazards. Relevant trainings were conducted for "Risk Classification and Management Policy for production risks". On 28 March 2018, we passed the review and assessment conducted by Heze Safety Supervision Bureau.

Since 2008, we obtained the occupational health and safety management system GB/T28001/OHSAS18001 certification, and have continuously strengthened our production safety system to be more advanced, practical and effective.

For 8 consecutive years from 2010 to 2017, 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 2018 (2017: NIL).

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。采用安全可靠的高新技术、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进行适当的预防措施。

在教育培训方面，公司严格落实《生产经营单位安全培训规定》，对所有重点岗位人员、特种作业人员、安全管理人员等进行了由政府组织的安全培训、考核，取得了相应的资格证书。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；对全体职工开展每年安全再培训；在每年安全月期间组织全体职工观看国家安监总局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，贯彻传达上级安全生产工作要求，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；各车间每天召开班前、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，并已在市安监局备案。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



## Social 社会

### TARGET: NO MAJOR SAFETY-RELATED INCIDENT.

目标：不发生重大安全事故。

### OCCUPATIONAL HEALTH AND SAFETY

健康和安

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。

2018年对公司的《安全考核细则》进一步修订完善，编制下发了《安全帽使用管理规定》、《承包商安全管理制度》、《安全生产风险分级管控制度》，使安全管理制度进一步健全。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。

2018年完成公司应急预案的修订和专家评审工作，并重新在市安监局备案。积极配合县安监局要求，完成单县危化品综合应急预案演练工作。

2018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两个体系的建设，制定了《安全生产风险分级管控制度》，并进行了培训学习，进一步加强了对安全风险的管控和对安全隐患的排查治理。2018年3月28日通过了菏泽市安监局评估验收。

自2008年起，公司通过了职业健康安全管理体系GB/T28001/OHSAS18001认证，并且持续改进，确保体系的科学性、适宜性、有效性。

从2010年至2017年连续8年，公司都获得了“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。

2018年发生的重大安全事故0件。（2017年0件）。



## Social 社会

### CHEMICAL MANAGEMENT 化学品管理

We have strengthened our on-site chemical management, especially in high risk areas such as the transfer of materials, to minimise any unnecessary exposure to hazardous chemicals. Our approval process for chemical products, in particular, the screening of highly hazardous chemicals have become more stringent. Where possible, we try to replace such hazardous materials with less hazardous materials in our production line. Approval must be obtained for any exceptions from the relevant Group Technical Authority.

We have enhanced the safe storage of hazardous chemicals through the installation of the following systems and facilities:

- high and low liquid level alarm system
- emergency cut-off for the automatic chain
- combustible and poisonous gas leakage alarm system
- provide air respirator
- provide 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.

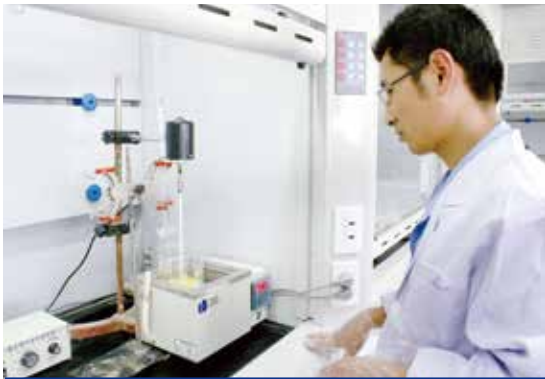
我们加强了现场化工产品管理，减小对健康影响的可能性。化工产品审核批准的流程更加严格，对高危险的化学产品需要安全筛选，并且进行替代评估。任何不足需要得到相关的审核批准。

对高危险的化学产品管理会在将来进一步加强，特别是在高风险区块，如在原材料转换时。

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



## Social 社会



### PRODUCT QUALITY AND SECURITY 产品质量与安全

We have always maintained a 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 ensure our products meet high standards expected by our customers and ultimately result in high 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
- Excellent service standards to meet the needs of both domestic and foreign customers
- Achieve a 100% customer satisfaction rate.

We achieved our goals for 2018. Quality objectives in 2019 are as follows:

1. To be market-oriented, customer-centric, and achieve improved customer satisfaction and loyalty. Our aim is to exceed a customer satisfaction rate of 96%.
2. Ensure consistent and improving quality, and to reduce returns due to defects. Customer complaint rates to be under 0.12%; Quality issue target to be no more than 0.5 tonnes for every 10,000 tonnes of products sold, returned goods due to defects to be lower than 0.023%. Delivery of products in good condition  $\geq 99.99\%$ .

3. No major quality issue.
4. To achieve a 100% passing rate for customers’ audits.

Our quality assurance division is headed by our quality assurance manager, under the supervision of our Executive Director, Xu Xian Lei 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 division to assure that our production process is in accordance with our quality control guidelines.

Since July 2000, we have been accredited with GB/T19001-1994/ISO9001:1994 certification by SQC for our quality management system. In 2018, our certification has now been raised to GB/T19001 – 2016/ISO9001:2015.



## Social 社会

### PRODUCT QUALITY AND SECURITY 产品质量与安全



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

我们十分注重产品质量控制。我们在各个生产过程都建立了严格的质量管理体系。

质量管理体系也确保我们的产品达到客户要求的相关标准，同时增强了顾客满意。我们的生产设施也为员工提供了安全的生产环境。我们内部质量控制措施，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%。

2018 年，我们设立的质量目标业已完成。2019 年的质量目标如下：

- 1、确保以市场为导向，以顾客为关注焦点，增强顾客满意度和忠诚度，全年客户综合满意度  $\geq 96$ 。
- 2、确保内在质量稳定并有提高，积极消减客户不良反馈，全年内在质量客户投诉率  $\leq 0.12\%$ ；确保外在质量问题客户反馈：万吨产品平均不超过 0.5 起。其中，不良品退货率  $\leq 0.023\%$ 。
- 3、确保产品交付完好率  $\geq 99.99\%$ 。
- 4、杜绝质量责任大事故。
- 5、确保客户审核通过率 100%。

我们的质量保证团队由质量部经理领导，受总经理徐先雷监督，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，我们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。

## Social 社会

### CUSTOMERS 客户



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
- Conduct a customer survey every six months - The sales team will provide feedback to the production line regarding any less than satisfactory areas for corrective action to be taken

对提高客户满意度采取的主动性方式:

- 提升全员的质量意识, 千方百计满足客户要求, 实现客户价值。
- 按照客户要求建立客户标准, 树立客户标准就是最高标准的观念, 实施个性化服务。
- 每半年进行一次顾客满意度调查, 对于客户不满意的项目, 由销售部门传递到相关部门实施改进, 不断增强顾客满意。

## Social 社会

### TARGET: FULL COMPLIANCE WITH CUSTOMERS' REQUIREMENTS.

目标: 完全符合客户要求

### CUSTOMER AUDITS

客户审核

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

我们的客户会对我们生产基地进行考察以确认我们产品的质量，健康安全和其他运行标准要求。对于每笔交易，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 customer in FY2018. We passed all audits.

- Double Coin Tyre Group Limited
- Hang Zhou Zhongce Rubber Group Co.,Ltd.
- Daito International Trading (Tianjin) Co.,Ltd.
- Bridgestone Vietnam
- YOKOHAMA RUBBER (SUZHOU) CO., LTD
- CST Tire (China) Co.Ltd
- Ningxia Shenzhou Tire Co., Ltd.
- Sumitomo Rubber (Changshu) Co.Ltd
- Qilu Pharmaceutical
- Xiamen CST Haiyan Tire Co.,Ltd
- Kumho Tire (Tianjin) Co.,Ltd.
- Hankook Tyre (JiaXing) Co.,Ltd
- Tongli Tire Co.Ltd
- The Goodyear Tire & Rubber Co.,Ltd (Dalian)
- Bando Belt (Tianjin) Co.,Ltd.
- Timsun Rubber & Tyre (Weihai) Co.,Ltd
- Pirelli Tires Co.,Ltd (RunZhou)

2018 年访问并审核过我们的客户有:

1. 双钱轮胎集团有限公司
2. 中策橡胶集团有限公司
3. 大都国际贸易（天津）有限公司
4. 普利司通越南工厂
5. 杭州（苏州）优科豪马轮胎有限公司
6. 正新橡胶（中国）有限公司
7. 宁夏神州轮胎有限公司
8. 住友橡胶（常熟）有限公司
9. 齐鲁天和惠世制药有限公司
10. 厦门正新橡胶工业有限公司
11. 锦湖轮胎（天津）有限公司
12. 韩泰轮胎有限公司
13. 通力轮胎有限公司
14. 大连固特异轮胎有限公司
15. 阪东机带（天津）有限公司
16. 腾森橡胶轮胎（威海）有限公司
17. 倍耐力轮胎有限公司

## Social 社会

INNOVATION  
自主创新

**In October 2018, “Zhongce Rubber Group – Chaoyang Tyre Fair” was successfully held in China Sun sine. This event marked another step of in-depth co-operation between Zhongce Rubber Group and China Sun sine.**

2018年10月，中策橡胶—朝阳轮胎优惠购尚舜专享会在尚舜化工成功举行。本次活动进一步拉近了中策橡胶和尚舜化工之间的距离。



## Social 社会

### INNOVATION 自主创新

We closely monitor national policies as well as industry development trends to maintain our position at the forefront of industry innovation. We believe in continued innovation, integrated innovation and re-invention 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 “M ammonium salt of oxygen preparation of new technologies DM”, “rubber accelerator waste gas treatment and Claus Sulfur recovery comprehensive technology” as well as more than 30 R&D projects. “Anti-oxidant 6PPD hydrogenation in loop” was awarded as Technology Run-up 2nd award by China Petroleum and Chemical Industry Federation. We have been granted more than 37 national patents, of which 20 are invention patents and 17 utility model patents. At the same time, we continue to expand our collaboration with Tsinghua University, Tianjin University, Fudan University, Qingdao University of Science and Technology, Dalian University of Technology, Qilu Petrochemical Research Institute and other academic establishments to carry out research cooperation projects.

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”先后获得国家支撑计划和山东省科技成果转化重大项目；“M 铵盐的氧气法制备 DM 的新技术”、“橡胶促进剂废气治理和克劳斯硫磺回收综合技术”等 30 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。集团拥有国家专利 37 项，其中，发明专利 20 项，实用新型专利 17 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、齐鲁石化研究院等开展了研究合作项目。





## Social 社会

### INNOVATION 自主创新



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

In May 2018, Qingdao University of Science and Technology and China SunSine founded the "Rubber Additives Engineering Technology Research Center". The establishment of Engineering and 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 will also gain a 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.

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，实现橡胶助剂行业的升级，推动尚舜化工橡胶助剂的发展取得辉煌的成果。

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



## Social 社会

### LOCAL COMMUNITIES 当地社区



Under our Chairman's leadership, the Group continues to contribute to public welfare and social responsibility. These include repairing roads and bridges, and donations to cultural and charitable events. We also provided financial assistance to more than 300 disadvantaged students. During the year, we donated RMB 4.45 million (2017: RMB 5.08 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、慈善等社会公益事业捐资，并坚持捐资助学，供资助贫困生 300 多名，对弱势群体贫困学子的资助已形成常态。本年度，集团共捐助人民币 445 万元（2017 年：508 万元）。

### 2018 年集团所获荣誉

No. 序号	Name of awards 荣誉名称	Awarding agency 颁发机构
1	Trusted Quality Certificate for rubber product (Accelerator CBS) 橡胶产品质量授信证书（促进剂CBS）	China Rubber Industry Association 中国橡胶工业协会
2	Trusted Quality Certificate for rubber product (Accelerator TBBS) 橡胶产品质量授信证书（促进剂TBBS）	China Rubber Industry Association 中国橡胶工业协会
3	Trusted Quality Certificate for rubber product (Antioxidant 6PPD) 橡胶产品质量授信证书（防老剂6PPD）	China Rubber Industry Association 中国橡胶工业协会
4	Trusted Quality Certificate for rubber product (Antioxidant TMQ) 橡胶产品质量授信证书（防老剂TMQ）	China Rubber Industry Association 中国橡胶工业协会
5	Trusted Quality Certificate for rubber product (Thermal stability IS) 橡胶产品质量授信证书（高热稳定性IS）	China Rubber Industry Association 中国橡胶工业协会
6	2018 China Rubber Industry Top 100 Enterprise 2018年度中国橡胶工业百强企业	China Rubber Industry Association 中国橡胶工业协会
7	Organisation award for employee photography contest in "Binhua Cup" organised the province's petrochemical pharmaceutical associations 全省石化医药系统“滨化杯”“当好主人翁 建功新时代”职工摄影大赛 获“组织奖”	Shandong Petrochemical Trade Union Committee 山东省石油化学工会委员会
8	Best supplier 最佳供应商	Zhongce Rubber Group Co., Ltd. 中策橡胶集团有限公司
9	2018 China Petroleum and Chemical Industry Top 500 Enterprise 2018中国石油和化工企业500强	China Petroleum and Chemical Industry Federation 中国石油和化学工业联合会 China Chemical Industry Management Association 中国化工企业管理协会
10	2018 China Top 100 Special Chemicals Manufacturing Enterprise 2018中国专用化学品制造业百强企业	China Petroleum and Chemical Industry Federation 中国石油和化学工业联合会 China Chemical Industry Management Association 中国化工企业管理协会
11	Shandong rubber and plastics industry in 2018 Top 10 enterprise 2018年度山东橡塑行业十强企业	China Chemical Information Association 中国化工情报信息协会 Shandong Chemical Industry Information Center 山东省化工信息中心

# Social 社会

## LOCAL COMMUNITIES 当地社区



No. 序号	Name of awards 荣誉名称	Awarding agency 颁发机构
12	Shandong Petroleum and Chemical Industry in 2018 Top 100 Enterprise 2018年度山东省石油和化学工业100强企业	China Chemical Information Association 中国化工情报信息协会 Shandong Chemical Industry Information Center 山东省化工信息中心
13	China Top 100 Fine Chemicals Enterprise 中国精细化工百强	China Chemical Information Association 中国化工情报信息协会 National Fine Chemical Materials and Intermediates Industry Collaboration Group 全国精细化工原料及中间体行业协作组
14	Excellent supplier of 2018 2018年度优秀供应商	Zhejiang Double Arrow Rubber Co., Ltd. 浙江双箭橡胶股份有限公司
15	2017 Advanced Safety Production Work Enterprise of the Year 2017年度安全生产工作先进企业	Party Working Committee of Weifang Binhai Economic and Technological Development Zone 潍坊滨海经济经济技术开发区党工委 Weifang Binhai Economic and Technological Development Zone Management Committee 潍坊滨海经济经济技术开发区管委会
16	First and runner up position in the 2018 Weifang Binhai Economic and Technological Development Zone "Binhai Petrochemical Cup" safety production law and regulation knowledge contest 2018年潍坊滨海经济经济技术开发区“滨海石化杯”安全生产法律法规知识竞赛活动获得一、二等奖	Weifang Binhai Economic and Technological Development Zone Safety Production Committee 潍坊滨海经济经济技术开发区安全生产委员会
17	Excellent Organization Award in the "Shangyu Cup" Staff Badminton Competition in Binhai District 滨海区“尚舜杯”职工羽毛球比赛优秀组织奖	Binhai District Federation of Trade Unions Binhai District Social Affairs Bureau Binhai District Green Chemical Park Development Service Center 滨海区总工会 滨海区社会事业局 滨海区绿色化工园开发服务中心
18	Innovative enterprise in Dingtao District, Heze City 菏泽市定陶区创新型企业	Dingtao District Committee of Heze City, CPC 中共菏泽市定陶区委 People's Government of Dingtao District, Heze City 菏泽市定陶区人民政府
19	Advance unit that promote deliberative democracy and strengthening of social responsibility 推行协商民主强化社会责任先进单位	Heze City Federation of Trade Unions 菏泽市总工会
20	2017 Advanced unit for safe production for the year 2017年度安全生产工作先进单位	People's Government of Dingtao District, Heze City 菏泽市定陶区人民政府
21	2018 Shandong Province SMEs Invisible Champion Storage Enterprise 2018山东省中小企业隐形冠军入库培育企业	Shandong Provincial Department of Industry and Information Technology 山东省工业和信息化厅

## Social

### 社会

#### MEMBERSHIP IN INDUSTRY ASSOCIATIONS

#### 协会会员

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Bureau Member of Rubber Industry Association of PRC

中国橡胶工业协会主席团成员单位

Vice Chairman of Rubber Industry Association Rubber Chemical Commission of PRC

中国橡胶工业协会助剂专业委员会副理事长单位

Member of Chinese Chemical Society

中国化工学会会员单位

Member of Shandong Province Rubber Industry Association

山东省橡胶行业协会副理事长单位

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

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

Executive Vice President of Heze, China International Chamber of Commerce

中国国际商会菏泽商会常务副会长单位

## 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 2018, please refer to our Annual Report 2018, on pages 25 to 47.**

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2018年企业治理成绩和实践，请参阅2018年年报（第25至47页）。

### ENTERPRISE RISK MANAGEMENT (ERM) 企业风险管理

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 37 to 38.

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2018年年报（第37至38页）。

## Governance

### 治理

#### FAIR OPERATING PRACTICE

#### 公平营运实践



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

In FY2018, we conducted code of conduct training for and obtained conflict of interest declaration 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2018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。

## GRI Standards Content Index

### 全球报告倡议组织准则指引

GRI Standard	Disclosure	Reference / Description
GRI 101: Foundation 2016		
GENERAL DISCLOSURE		
GRI 102: General Disclosures	102-1	Name of organisation China Sunshine Chemical Holdings Ltd
	102-2	Activities, brands, products and services Page 3
	102-3	Location of headquarters Singapore
	102-4	Location of operations Page 3
	102-5	Ownership and legal form Annual Report Page 1
	102-6	Markets served Page 3
	102-7	Scale of the organisation Page 3, 11-13, 24-26
	102-8	Information on employees and other workers Page 24-26
	102-9	Supply chain Page 3
	102-10	Significant changes to the organisation and its supply chain None
	102-11	Precautionary Principle or approach Do not specifically addressed
	102-12	External initiatives Page 40
	102-13	Membership of associations Page 42
	102-14	Statement from senior decision maker Page 1-2
	102-16	Values, principles, standards and norms of behaviour Page 43-44
	102-18	Governance structure Annual Report Page 25-47
	102-40	List of stakeholder groups Page 7-9
	102-41	Collective bargaining agreements None
	102-42	Identifying and selecting stakeholders Page 7
	102-43	Approach to stakeholder engagement Page 7-9
	102-44	Key topics and concerns raised Page 7-9
	102-45	Entities included in the consolidated financial statements Annual Report Page 48-98
	102-46	Defining report content and topic boundaries Page 1-2
	102-47	List of material topics Page 10
	102-48	Restatement of information None
	102-49	Changes in reporting None

## GRI Standards Content Index

### 全球报告倡议组织准则指引

GRI Standard	Disclosure	Reference / Description
	102-50 Reporting period	1 January to 31 December 2018
	102-51 Date of most recent previous report	March 2018
	102-52 Reporting cycle	Annually
	102-53 Contact point for questions about the report	Page 4
	102-54 Claims if reporting in accordance with the GRI Standards	Page 4
	102-55 GRI content index	Page 45-46
	102-56 External Assurance	May seek in the future
MATERIAL TOPICS		
GRI 201: Economic performance	201-1 Direct economic value generated and distributed	Page 11
GRI 205: Anti-corruption	205-1 Operations assessed for risks related to corruption	Page 14
GRI 302: Energy	302-1 Energy consumption within the organization	Page 17-19
GRI 303: Water	303-3 Water recycled and reused	Page 20-21
GRI 305: Emissions	305-1 Direct (Scope I) GHG emissions	Page 22-23
GRI 307: Environmental compliance	307-1 Non-compliance with environmental laws and regulations	Page 23
GRI 403: 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	Page 28-31
GRI 404: Training and Education	404-1 Average hours of training per year per employee	Page 27
GRI 405: Diversity and equal opportunity	405-1 Diversity of governance bodies and employees	Page 24-26
GRI 413: Local Communities	413-1 Operations with local community engagement, impact assessments, and development programs	Page 40



## Feedback Form 调查反馈表

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：

I am a:

我是：

- Shareholder 股东
- Investor 投资者
- Employee 员工
- Consultant, supplier or business partner 顾问， 供应商或商业伙伴
- Customer 客户
- Government/regulatory agency 政府部门
- Media 媒体
- Others 其他（请注明） \_\_\_\_\_

1. How did you obtain a copy of our Sustainability Report?

您是从哪里获得此可持续性发展报告的？

- website 网站
- employee 员工
- Others 其他 \_\_\_\_\_ (please specify请注明)

2. Overall you found the:

总体上，您觉得此报告：

- 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
- Amount of Information: Excellent / Very good / Good / Fair / Poor
- 报告的内容：非常好/很好/好/一般/差
- 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
- 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

3. Which part did you find most useful and why? 您最喜欢哪个部分？为何？

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## Feedback Form

### 调查反馈表

4. How could we improve on the report? 我们该如何改进此报告?

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5. What topics or issues do you want to be added to the report? 您还想在此报告中加入哪种信息?

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6. Any other comments and suggestions? 您还有什么其他的建议?

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If you would like us to contact you on any clarification that we may require:

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!





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