

LESSO 联塑

CHINA LESSO GROUP HOLDINGS LIMITED
中國聯塑集團控股有限公司

Incorporated in the Cayman Islands with limited liability
於開曼群島註冊成立的有限公司

Stock Code 股份代號：2128

LESSO



2019

CORPORATE SOCIAL RESPONSIBILITY REPORT

企業社會責任報告

ABOUT THIS REPORT

This is the fifth corporate social responsibility (CSR) report by China Lesso Group Holdings Limited and its subsidiaries. The report systematically explains the Group's philosophy of corporate social responsibility, its practices and performance in fulfilling its corporate social responsibility towards shareholders, customers, business partners, the environment, employees and society for the year 2019, and the Group's outlook for its endeavors.

Period Covered by this Report

This report principally covers a period from 1 January to 31 December 2019, and part of both the previous financial year and the year 2020.

Scope of this Report

This report covers the performance of China Lesso Group Holdings Limited and its subsidiaries, but does not include that of its overseas subsidiaries.

Definitions

For the sake of optimal expression and readability, "China Lesso Group Holdings Limited and its subsidiaries" are alternatively referred to as "China Lesso", "Group", "Company" or "We" in this Report.

Basis of Preparation

Most of the information disclosed in this report was prepared in strict compliance with the *Environmental, Social and Governance (ESG) Reporting Guide* of The Stock Exchange of Hong Kong Limited and was published as required by *GRI Standards* of Global Sustainability Standard Board.

Information Description

All data disclosed in this report come from the official documents, statistical reports or relevant public information of the Company. The Company guarantees that this Report is free from any false records, misleading statements or material omissions.

Currency

Unless otherwise specified, the currency in which the financial data are reported is Renminbi ("RMB").

Access to the Report

This report is available in both Chinese and English. An electronic copy of this report can be downloaded on China Lesso's website (www.lesso.com).

關於本報告

本報告是中國聯塑集團控股有限公司及其附屬公司發佈的第五份社會責任報告，系統披露了集團 2019 年在履行對股東、客戶、合作夥伴、環境、員工和社會等方面的社會責任理念、實踐、績效，以及未來展望。

時間範圍

2019 年 1 月 1 日至 2019 年 12 月 31 日，部分內容往前後年度適度延伸。

報告範圍

本報告涵蓋了中國聯塑集團控股有限公司及其附屬公司，不包含海外附屬公司。

稱謂說明

為了便於表述和閱讀，在本報告中「中國聯塑集團控股有限公司及其附屬公司」也以「中國聯塑」、「聯塑」、「集團」、「公司」或「我們」表示。

參照標準

本報告所披露的大部分內容嚴格按照香港聯交所《環境、社會及管治報告 ESG 指引》要求編寫和全球可持續發展標準委員會《GRI 可持續發展報告標準》(GRI Standards) 標準披露。

資料說明

報告所披露的資料與案例來自公司正式文件、統計報告或有關公開資料。公司保證本報告內容不存在任何虛假記載、誤導性陳述或重大遺漏。

貨幣單位

報告中所包含的貨幣單位如無特殊說明均為人民幣。

報告獲取

本報告提供中英文版本供讀者參閱。您可登錄 www.lesso.com 網站在網上閱讀或下載報告電子版。

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CHAIRMAN'S MESSAGE

董事長致辭

Economic growth in China continued to slow down in 2019 in the face of mounting uncertainties worldwide. However, the drastic changes in the marketplace created an ideal opportunity for companies to prove their organic strengths and achieve new successes. In 2019, as a leading large-scale industrial group that manufactures building materials and interior decoration products in mainland China, China Lesso adhered to the brand culture – "building a relaxing life for residents", and fulfilled its responsibilities as a corporate citizen seizing opportunities in the new era, while deepening the connotation of "quality Lesso products". Meaningful connections between the Company and its clients, the environment, business partners and local communities have been established relying on high-quality products and services, more eco-friendly corporate operations, more forthright partnerships, more thoughtful staff care services, and more effective measures aimed at promoting the public's well-being. Thus, we shaped a harmonious symbiotic relationship and built a better future together with stakeholders.

Quality Products and Services that Connect Us with the World. Adhering to a core branding strategy focusing on "quality, platformisation and globalisation", we broadened our market reach along the industrial value chain, and continuously built on our core competitiveness. We further developed the technological innovation management system, accelerated commercialisation of innovation project findings, and drove corporate development through technology innovations. We tightened up quality assurance operations, developed high-quality, innovative and practical products, and continued to enhance the standard of one-stop services, with the aim of making life easier and more enjoyable for consumers worldwide. We actively developed the modern agriculture business, supported national strategies such as Beijing-Tianjin-Hebei integrated development, put forward integrated solutions on infrastructure construction in the Xiongan New Area, and contributed to major construction projects such as the Beijing Daxing International Airport and to the sustainable development of Chinese cities.

Environmental protection that connects us with nature. Climate change poses a serious challenge to the sustainable development of mankind. We are fully

2019年，受全球不穩定因素影響，中國經濟增長持續放緩。然而，行業急劇變革之時，正是見證品牌內功、誕生新商業奇跡的偉大時刻。作為中國內地領先的大型建材家居產業集團，我們始終秉持「為居者構築輕鬆生活」的品牌理念，不斷深化「品質聯塑世界」的內涵，主動把握時代機遇，積極履行企業公民責任，以更優質的產品與服務、更環保的企業運營、更真誠的夥伴合作、更貼心的員工關懷、更有效的公益行動，聯接企業與客戶、環境、夥伴及社區，塑造和諧共生之路，與利益相關方共創美好未來。

聯接世界，塑造品質。我們堅持「品質化、平台化、全球化」的品牌核心戰略，延伸產業價值輻射，提升核心競爭力；不斷完善科技創新管理體系，加快創新成果轉化，以創新科技引領企業發展進步；牢牢把控產品質量，全面落實安全生產，積極開發品質卓越、創新實用的產品，持續提升一站式服務水平，為全球居者創造更美好的輕鬆生活；著力發展現代農業，響應京津冀協同發展等國家戰略，為雄安新區基礎建設提供一體化解決方案，助力北京大興國際機場等重點工程建設，為城市的可持續發展貢獻聯塑力量。

聯接自然，塑造環保。氣候變化已成為人類實現可持續發展所面臨的重要挑戰。

aware of this challenge, and have continuously built on the Group's energy and greenhouse gas management capabilities. We rigorously implemented multi-dimensional and full-process environmental management policies to reduce pollutant emissions and resource consumption, continuously promoted the Green Office campaign, and contributed to the sustainable development of enterprises and the environment. We actively advocated green concepts, and organised public welfare events on environmental protection leveraging our competitive advantages in the environmental protection industry, joining hands with other members of society to build a green ecosystem.

Harmonious relationships that connect us with the society. Upholding the "people first" principle, we have safeguarded the basic rights and interests of employees, paid due attention to their career development, and promoted their physical and mental well-being to create a strong sense of happiness. We fostered mutually beneficial and win-win partnerships, continued to improve supplier management, and achieved mutual development with suppliers and distributors by introducing a points-based distributor management systems, offering lectures for clients and organising conferences for distributors. We cemented partnerships with higher education institutions, and actively promoted industry development to lay the groundwork for win-win development for all parties involved. We facilitated efforts to improve infrastructure in poor areas relying on our own strengths, sought to eradicate poverty through education, and organised charity and volunteer services, in line with our commitment to building a more harmonious and better society.

Looking ahead to the future, guided with the service philosophy of "improving the quality of life in cities", we will forge ahead and continuously build on our CSR fulfillment capabilities through concerted efforts and based on thorough analysis of the needs of different stakeholders, seizing opportunities brought by national policies and infrastructure construction projects. We will pay due attention to the opinions and suggestions of people from all walks of life, and make further contributions to the sustainable development of the Chinese society!

我們充分識別氣候變化帶來的挑戰，不斷提升企業能源管理及溫室氣體管理的能力和水平；嚴格執行全方位、全流程的環境管理，減少污染物排放，降低資源消耗，持續推行綠色辦公，助力企業與環境的可持續發展；充分發揮環保產業優勢，積極倡導綠色理念，開展環保公益活動，攜手社會各界共築綠色生態圈。

聯接社會，塑造和諧。我們秉持以人為本的理念，保障員工基本權益，關心員工職業發展，守護員工身心健康，不斷提升員工幸福感；積極構建互惠、共贏的夥伴關係，不斷探索和改善供應商管理，通過建立經銷商積分管理制度、開辦聯塑客戶學堂、舉辦經銷商大會等方式，攜手供應商、經銷商共同成長；加強與高等院校合作，積極推動行業發展，促成多方共贏局面；利用企業自身優勢推動改善貧困地區基礎設施，實施教育扶貧，開展公益慈善和志願服務活動，努力構築更和諧美好的社會。

展望未來，我們將繼續秉承「為城市提高品質生活」的服務理念，積極把握國家政策及基礎建設帶來的機遇，上下同心，銳意進取，認真傾聽來自社會各界的聲音，深入分析不同利益相關方的訴求，不斷提升企業的履責能力和水平，為社會可持續發展做出更多貢獻！

ABOUT US

Company Overview

China Lesso Group Holdings Limited (stock code: 2128.HK) is a large-scale industrial group that manufactures building materials and interior decoration products in China. The Company was listed on the main board of the Stock Exchange of Hong Kong Limited (SEHK) in June 2010. Headquartered in Shunde, Guangdong province, the Group has more than 80 subsidiaries (in which it owns a controlling shareholding) and 27 main production bases in 16 provinces across China and in Indonesia, etc.

The Group's products are classified into four business categories, namely piping systems (a full range of plastic pipes and pipe fittings applied to such fields as water supply, drainage, power supply and telecommunications, gas transmission, household furnishing, floor heating, fire service and agriculture), building materials and interior decoration products (including sanitary fittings and ware, integrated kitchens, wardrobes and doors and windows, and water purifiers), environmental protection (covering a diverse range of businesses such as wastewater, waste gas, solid waste and hazardous waste treatment and disposal, soil remediation, environmental testing, technical consulting services, specialized operation of environmental protection facilities, marine environmental protection, environmental protection investment and basic scientific research), and specialized market platforms.

Corporate Culture

Principal Philosophy

主題理念

Linking the present, shaping the future

聯繫現在，塑造未來

Business Strategy

經營方針

Taking quality as the lifeline, leading with technology and aiming for customer satisfaction

以質量為生命，以科技為龍頭，以顧客滿意為宗旨

Business Spirit

企業精神

Entrepreneurship, innovation, scientific management and perfectionism

開拓進取，求實創新，科學管理，精益求精

Corporate Objectives

企業目標

Revitalizing the Chinese industry and build a world-leading business

振興中華民族工業，創建國際一流企業

Brand Confidence

品牌信仰

Building a relaxing life for residents

為居者構築輕鬆生活

關於我們

公司概況

中國聯塑集團控股有限公司（股份代號：2128.HK）是中國大型建材家居產業集團，於2010年6月在香港聯合交易所有限公司（聯交所）主板上市。集團總部位於廣東順德，擁有逾80家控股子公司和27個主要生產基地，分佈於全國16個省份及印尼等國家。

集團產業分為四大業務板塊，覆蓋管道產業（可提供給水、排水排污、電力通信、燃氣、家裝、地暖、消防及農業等領域的全系列管道及管件產品）、建材家居（包括水暖衛浴、整體廚房、整體衣櫃、整體門窗、淨水機等）、環保產業（涉及廢水治理、廢氣治理、固體廢物處理、危險廢棄物處理處置、土壤修復、環境檢測、技術諮詢服務、環保設施專業運營、海洋環保、環保投資及基礎科學研究等多個領域）和專業市場平台業務。

企業文化

Brand Architecture

"Lesso" represents such aspects as "Link, Easy, Safe, Share and Open" of China Lesso's corporate culture. The corporate logo in red symbolizes the vibrancy and sustainability of life, and reflects the vitality, passion and prosperity of China Lesso. It also represents our employees' tireless endeavor to build a booming business.

品牌架構

中國聯塑的品牌 LESSO 寓意著傳承、輕鬆、安全、分享、開放的企業文化理念。紅色的標識象徵生生不息的生命，體現聯塑的活力激情、朝氣蓬勃、欣欣向榮，寓意著聯塑人孜孜不倦地追求、開創蒸蒸日上的宏圖事業。



Our Brands 旗下品牌

LESSO 联塑

Plastic pipes, sanitary ware products, fire fighting apparatuses, sealant, waterproof material, environmental protection service, mariculture cages, wire, lighting, valves

塑料管道、衛浴、消防器材、密封膠、防水材料、環保服務、海洋養殖網箱、電線、照明、閘門

LESSO 领尚

Integrated kitchens, integrated wardrobes, water purifiers, systems of doors and windows, wooden doors, decorative plates, integrated heating systems

整體廚房、整體衣櫃、淨水機、整體門窗、木門、裝飾板、集成供暖系統

Agriculture Technology 農業科技

Facility industry and engineering, leisure agriculture, water-saving irrigation system, production consumables, deep-sea marine cages, agricultural technology consulting, fruits and vegetables, flowers and gardening, agritourism

設施工業工程、家庭休閒農業、節水灌溉系統、生產消耗品、深水海洋網箱、農業技術諮詢、果蔬、花卉園藝、農業觀光

Specialized market service platform 專業市場服務平台

Professional market development, professional market operation, business ecosystem creation, resource sharing, trade service platform development

專業市場開發、專業市場運營、締造商業生態圈、實現資源共享、搭建貿易服務平台

LESSO 联塑

Steel-plastic composite pipes, galvanized pipes, 鋼塑複合管、鍍鋅管

LESSO | EPOO

Mass production of interior decoration equipment 住宅內裝設備工業化

EAGO 益高

Sanitary ware, bath & shower accessories 衛浴潔具

LESSO 万嘉

Sanitary materials 衛生材料

CORPORATE GOVERNANCE

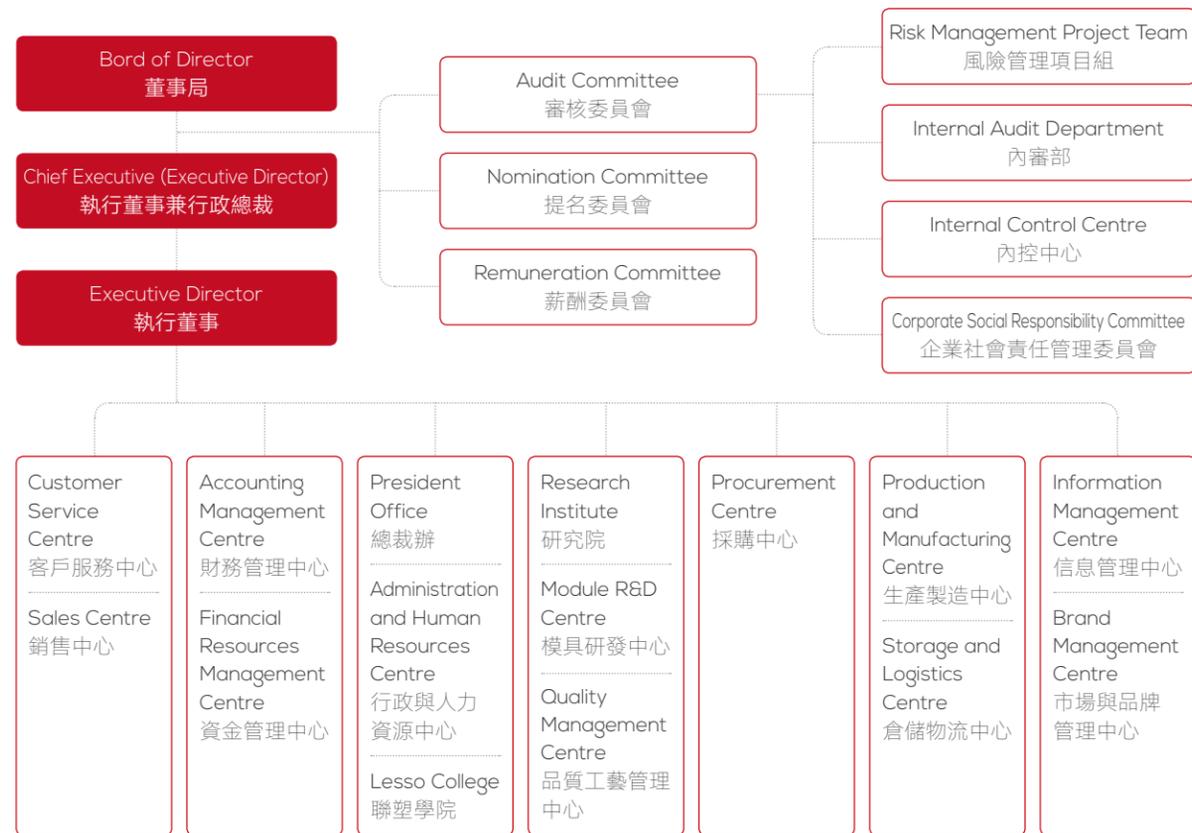
The Group has established a standardized corporate governance structure, and formulated rules and systems in compliance with the requirements for the Company's development such as the *Articles of Association* and *Director Nomination Policy*, thus perfecting internal control systems and standardizing corporate governance in accordance with requirements of the *Securities and Futures Ordinance*, *Cayman Islands Companies Law*, *Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong*, *Company Law of the People's Republic of China* and other laws and regulations.

The Group implements the Chief Executive Accountability System under the Board of Directors (the "Board"). The Board has three subordinate committees - Nomination Committee, Audit Committee and Remuneration Committee, the latter two of which are chaired by an independent non-executive director. For details about the Board of Directors and the committees under the Board of Directors, please refer to the *2019 Annual Report of China Lesso Group Holdings Limited*.

企業管治

集團按照《證券及期貨條例》、《開曼群島公司法》、香港聯交所《證券上市規則》、《中華人民共和國公司法》等法律法規要求，建立了規範的企業管治架構，制定《公司章程》《董事提名政策》等符合公司發展要求的規則和制度，健全內部控制體系，規範企業治理。

集團實行董事會領導下的總裁負責制。董事會下設提名委員會、審核委員會及薪酬委員會，其中審核委員會和薪酬委員會主席由獨立非執行董事擔任。董事會、董事委員會等詳細內容見《中國聯塑集團控股有限公司 2019 年度報告》。



Organizational Structure of China Lesso 中國聯塑組織架構

Stepping up Communication with Investors

The Group has established an investor information database to analyze the register of shareholders, and maintained close relationships with investment analysts, portfolio managers and other investors. The Board maintains an on-going dialog with shareholders and investors via regular earnings conferences, general meetings, investor receptions, non-pre-scheduled investor conferences and roadshows organised by various institutions, responsiveness on phone calls and emails, reception of research and investigation personnel and other methods to reinforce connection and communication with capital markets and the management of information disclosure and to enhance transparency. China Lesso held ten Board meetings in 2019.

加強投資者溝通

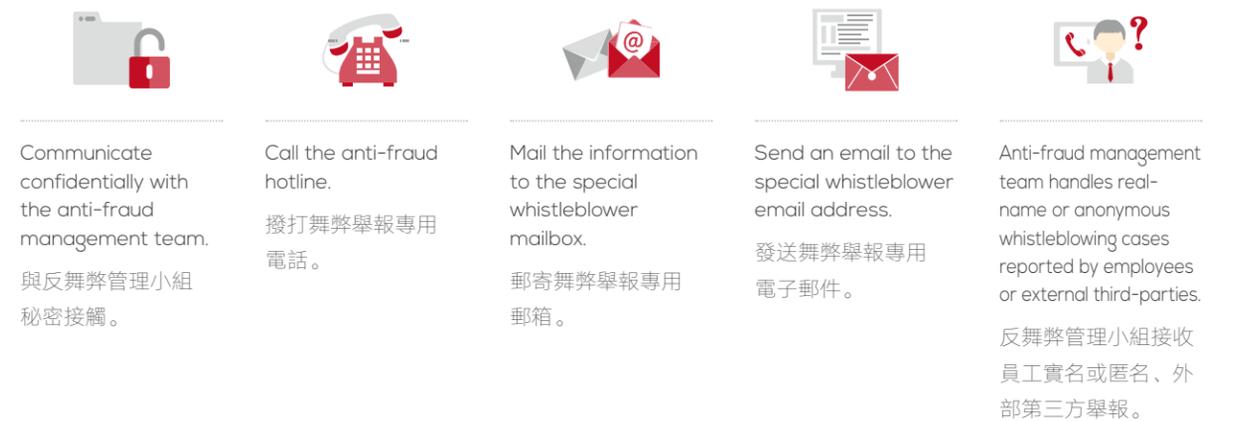
集團建立投資者信息庫，分析股東名冊，維護研究所分析師、基金經理等投資者的關係；通過定期舉行業績發佈會、股東大會、投資者接待會，不定期參加各機構組織的投資者交流會和路演會議，日常電話接待、郵件回復、接待調研等眾多方式與途徑，加強與資本市場的聯繫和溝通，增強信息披露管理，提高公司透明度。2019年，集團召開董事會會議10次。

Anti-corruption and Anti-fraud Campaigns

The Group has formulated an *Anti-fraud Management System* and build an anti-fraud management team to prevent incidents that incur losses on the interests of the Company and our shareholders. It also created many reporting channels for handling complaints and whistleblowing of fraudulent actions. Additionally, the Group has been careful to protect the identities and information of whistleblowers, and attaches great importance to the confidentiality of the information collected by whistleblowers for reporting. The Group received three corruption/fraud-related reports in 2019.

反腐敗與反舞弊

集團制定《反舞弊管理制度》，成立反舞弊管理小組，嚴防損害公司及股東利益的行為發生，並設立多種舉報渠道，受理損害集團利益的舞弊行為投訴與舉報。同時，集團注重對舉報人的保護，對舉報人的身份和信息嚴格保密，並對舉報人因舉報而收集信息的機密性予以尊重。2019年集團共收到反舞弊舉報3次。



Risk Management

The Group formed a risk management project team, and established a set of risk management systems and policies, including *Contract Regulations, Assets Management System and Capital Management System*, in a bid to efficiently manage the Group's risks, which serve as a reasonable guarantee for the Group's compliance with laws and regulations, assets security, financial reporting as well as the truthfulness and completeness of relevant information. For details about internal control and risk management, please refer to *2019 Annual Report of China Lesso Group Holdings Limited*.

Internal Audit

The Group conducted supervisory audits on its staff and the employees of its subsidiaries focused on operational and managerial aspects, and engaged a third-party company to revamp internal control processes to improve the level of regulatory compliance of its business operations, pursuant to the *International Standards for Professional Practice of Internal Auditing of IIA, Audit Law of the People's Republic of China, Rules for Internal Auditing of the People's Republic of China* and other law and regulations, and based on the *Company's Articles of Internal Auditing*.

Intellectual Property Protection

The Group places great emphasis on intellectual property protection. In 2019, it protected its rights against infringement on the "Lesso" trademark and brand name by means of serving lawyer's letters, complaints to industrial and commercial administrations and appealing to courts, and rulings on long-standing unsolved cases have been enforced, effectively defending the Group's brand image and its customers' rights and interests. Furthermore, a patent incentive mechanism was introduced to summon up development staff's enthusiasm for applying for intellectual property and patents.

風險管理

集團建立風險管理項目組，制定《合同管理辦法》《資產管理制度》《資金管理制度》等系列風險管理制度和政策，對集團的風險狀況進行有效管理，為集團經營管理的合法合規、資產安全、財務報告及相關信息的真實、完整提供了合理保障。內部控制與風險管理詳細內容見《中國聯塑集團控股有限公司 2019 年度報告》。

內部審計

集團根據《IIA 國際內部審計實務標準》《中華人民共和國審計法》《中國內部審計準則》等相關法律法規要求，結合自身實際制定《內部審計章程》，對集團及下屬企業的人員及經營管理行為進行監察審計，並聘請第三方公司梳理內控流程，提升公司合規運營水平。

知識產權保護

集團注重知識產權保護，持續通過發送律師函、向工商部門投訴、向法院起訴的方式對侵犯「聯塑」商標和字號的企業進行維權，對歷史遺留的案件進行針對式執行，有效維護集團的品牌形象和客戶的合法權益，並通過制定專利獎勵機制以提升開發人員申請產品知識產權專利積極性。

SOCIAL RESPONSIBILITY MANAGEMENT

責任管理

Taking the establishment of a perfect social responsibility management system as the basis for managing and promoting the performance of its corporate social responsibility, the Group continuously optimised the social responsibility management mechanism as well as the multi-level, multi-dimensional and routinised stakeholder communication mechanism, strove to earn the trust and support of stakeholders based on an in-depth understanding and management of their expectations and needs, and sought to achieve mutual development with them.

集團把建立健全的社會責任管理體系作為社會責任管理推進工作的基礎，不斷優化社會責任管理機制，完善多層次、多方位、常態化的利益相關方溝通機制，深入了解和回應利益相關方期望與訴求，爭取利益相關方的信任和支持，實現與利益相關方共同發展。

Philosophy of Social Responsibility

The Group is committed to fulfilling its corporate social responsibility and has integrated the relevant practices into its daily business management and operations. While developing its business, the Group fulfills its economic, environmental and social responsibilities.

社會責任理念

集團積極履行企業社會責任，將社會責任管理納入日常管理和業務中，致力在自身發展中努力踐行經濟、環境和社會責任。

Organizational Structure of Social Responsibility

The Group has been improving its corporate organization for fulfilling its corporate social responsibility, implementing a "four-tiered approach" to corporate social responsibility work units and driving the orderly performance of its corporate social responsibility from all angles.

社會責任組織架構

集團健全社會責任組織架構，形成「四級聯動」社會責任推進格局，全方位推動社會責任工作有序開展。



Communication with Stakeholders 利益相關方溝通

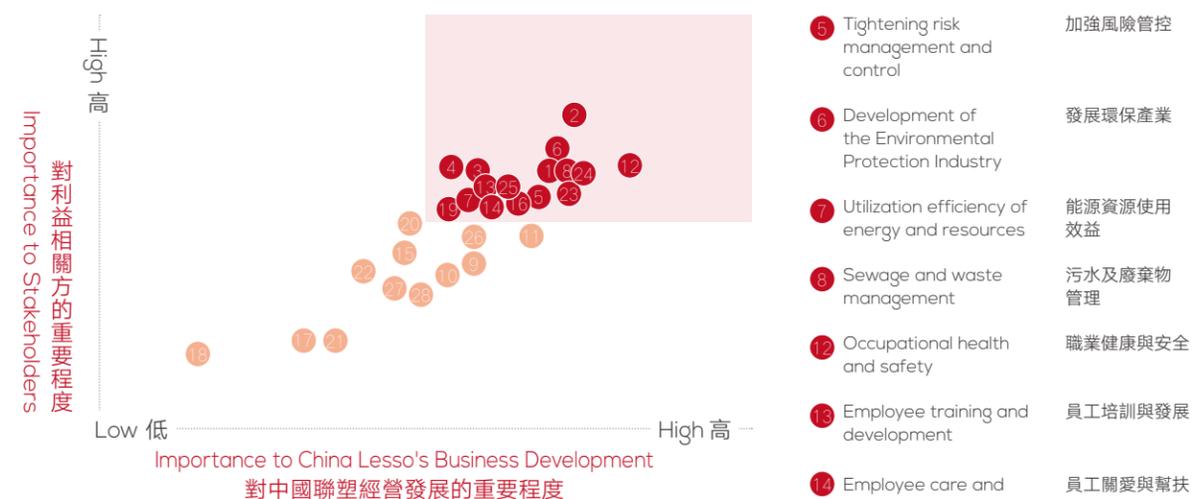
Stakeholders 利益相關方	Expectations and Demands 期望與要求	Communication and Feedback Methods 溝通與回應方式
Employees 員工	<ul style="list-style-type: none"> Protection of legitimate rights and interests Promotion of employees' growth and development Caring about employees' personal well-being 保障合法權益 促進員工成長與發展 關愛員工生活 	<ul style="list-style-type: none"> Diversified and equal employment, improvement of the remuneration and benefits system Streamlined career development paths Caring for employees health 多元平等僱傭、完善薪酬福利 暢通職業發展通道 注重員工身心健康
Partners 合作夥伴	<ul style="list-style-type: none"> Establishment of a fair and transparent industrial chain Win-win cooperation 構建公平、透明產業鏈 合作共贏 	<ul style="list-style-type: none"> Enhancement of supply chain management Implementation of technical exchange and cooperation 加強供應鏈管理 開展技術交流與合作
Shareholders 股東	<ul style="list-style-type: none"> Returns and growth Risk control Corporate governance standards 回報與增長 控制風險 公司治理規範 	<ul style="list-style-type: none"> Regular disclosure of business information General meetings, investor conferences and Board meetings Steady and solid operation in compliance with laws and regulations 定時披露經營信息 股東大會、投資者會議、董事會 依法合規穩健經營
Communities 社區	<ul style="list-style-type: none"> Poverty alleviation Promotion of community development Volunteer services 扶貧濟困 促進社區發展 志願服務 	<ul style="list-style-type: none"> Poverty alleviation donations Charitable activities Volunteer services provided by employees 開展扶貧捐贈活動 開展慈善公益活動 熱心員工志願活動
Customers 顧客	<ul style="list-style-type: none"> Product quality guarantee Provision of quality services Honest operation 保證產品質量 提供優質服務 誠信經營 	<ul style="list-style-type: none"> Strict quality management Improvement of products and services Protection of customer information security 嚴格質量管理 完善產品服務 保護客戶信息安全
Environment 環境	<ul style="list-style-type: none"> Energy saving and emission reduction Environmental protection 節能減排 保護生態環境 	<ul style="list-style-type: none"> Green industry development Green operation practices Environmental governance reinforcement 發展綠色產業 踐行綠色運營 加強環境治理
Government 政府	<ul style="list-style-type: none"> Operation in compliance with laws and regulations Support for economic, green and sustainable development 依法合規經營 支持經濟綠色、可持續發展 	<ul style="list-style-type: none"> Tax compliance Active response to national policies 依法納稅 積極響應國家政策

Analysis of Substantive Issues

實質性議題分析

In order to further improve the substance of this Report, the Group has surveyed internal and external stakeholders and selected substantive issues from the two perspectives of "the importance of such issues relating to China Lesso's business development" and "the importance of such issues relating to the stakeholders" and disclosed the key points thereof in this report in an effort to respond to the expectations and demands of every stakeholder.

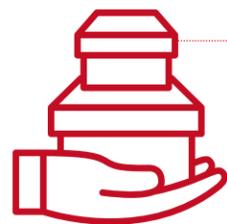
為進一步提升報告實質性，集團廣泛開展內外部利益相關方調研，從「對中國聯塑經營發展的重要程度」和「對利益相關方的重要程度」兩個維度進行衡量，篩選出較強實質性的議題並在報告中予以重點披露，針對性地回應各利益相關方的期望與訴求。



Substantive Issues Selected	實質性議題篩選結果
1 Sustainable development strategy and management	可持續發展戰略與管理
2 Regulatory compliance and business integrity	誠信合規經營
3 Transparent communication and operation	透明溝通運營
4 Anti-corruption campaign	反腐倡廉
5 Tightening risk management and control	加強風險管控
6 Development of the Environmental Protection Industry	發展環保產業
7 Utilization efficiency of energy and resources	能源資源使用效益
8 Sewage and waste management	污水及廢棄物管理
12 Occupational health and safety	職業健康與安全
13 Employee training and development	員工培訓與發展
14 Employee care and support	員工關愛與幫扶
16 Assisting suppliers in enhancing their products	幫助供應商提升產品質量
23 Product quality and innovation	產品質量與創新
24 Provision of quality services	提供優質服務
25 Customer privacy safeguarding	客戶隱私保護

LESSO HAS BEEN ACTIVELY INVOLVED IN THE FIGHT AGAINST COVID-19

Epidemic control is the top priority, and we are duty bound to make our own contribution. Ever since the virus outbreak, the Group has set up an anti-epidemic leadership group led by the Board chairman immediately in line with the government's call to action, leveraging its unique resources. On the one hand, we assigned workers to assist with the construction of many "Xiaotangshan" hospitals in Wuhan and other areas, and we donated medical materials in serious short supply to support frontline workers in hospitals. On the other hand, we resumed business and production activities in an orderly fashion to ensure reliable supplies of related products and meet the emergency construction needs, fulfilling our corporate social responsibility with concrete actions.



We have donated a total of approximately RMB **4.02** million worth of medical masks, goggles, protective clothing and pipes and fittings (as of the end of April 2020)

Cash and in-kind donations, and patriotism

All people have come together in the fight against the coronavirus, the success of which depends on human effort. All the Group's subsidiaries monitored regional epidemic containment efforts closely, and promptly supported the efforts and contributed to the epidemic control campaign by donating fully integrated supplies to related organizations in areas affected by the outbreak.

全力抗擊疫情 聯塑在行動

疫情就是命令，防控就是責任。疫情發生後，集團積極響應國家號召，發揮企業優勢，第一時間成立以董事局主席為組長的疫情防控領導小組，一方面馳援武漢及多地「小湯山」醫院建設，捐贈醫療緊缺防護物資，積極支援抗疫一線；一方面有序復工復產，保障生產供應穩定，滿足疫情應急建設的需求，用實際行動踐行企業社會責任。

累計捐贈醫用口罩、護目鏡、防護服及管材管件等物資折合金額約

402 萬元（截至 2020 年 4 月下旬）

捐款捐物 書寫家國情懷

疫情牽動人心，安危事在人為。集團旗下各子公司密切關注各區抗疫需求，主動迅速支援各地抗擊疫情建設需求，積極整合物資捐贈至對應疫區相關單位，為抗擊疫情貢獻力量。

Support hospital construction

Occupying a frontier position in the fight against the epidemic, hospitals play an extremely important role in helping patients and saving lives from Covid-19. Immediately after the outbreak, the Group donated to Xiaotangshan hospitals in Wuhan and other regions HDPE double-wall corrugated pipes, PE, PVC-U, PP-R and other water supply/drainage pipes and fittings and power and communication pipes and fittings such as PVC trunking and pipes, and provided technical support for construction and installation of mechanical equipment, working against time to support hospital construction.

馳援醫院建設

醫院作為抗疫的前沿陣地，對救助患者、抗擊疫情具有極其重要的作用。集團第一時間大規模向武漢及多地的「小湯山」醫院捐贈 HDPE 雙壁波紋管、PE、PVC-U、PP-R 等給排水管材管件以及 PVC 線槽線管等電力通信管材管件，同時提供施工安裝機械設備給與技術支持，爭分奪秒支援醫院建設。



Supplies to be delivered to the Leishenshan Hospital in Wuhan 馳援湖北武漢雷神山醫院建設



Supplies sent to the Xiaotangshan Hospital in Xian, Shannxi 馳援陝西西安「小湯山」醫院建設



Under-supplied materials donated to the government of Yunan District, Yunfu
向云浮雲安區政府捐贈防疫一線緊缺物資

Donations of medical supplies

All major hospitals were confronted with worsening shortages of medical supplies as the epidemic spread further. Relying on its extensive corporate procurement networks, the Group made appeals to various parties to secure medical protective supplies, and donated substantial quantities of under-supplied epidemic control materials to local hospitals near its headquarters and the government of the Yunan District, Yunfu, offering solid support on supplies for epidemic control efforts.

A model corporate citizen in facilitating business re-opening

Epidemic prevention and containment require swift actions as well as holistic planning. The Group resolutely enforced epidemic prevention and control policies, tightened up relevant management and control measures pursuant to arrangements made by the local government, and supplied anti-epidemic materials, pushing forward orderly re-opening of businesses while ensuring the personal safety of our employees.

捐贈醫療物資

隨著疫情的蔓延，各大醫院物資匱乏形勢嚴峻。集團立即發揮企業資源採購佈局優勢，廣發英雄帖籌集醫療防護物資，向集團總部所在地醫院、雲浮雲安區政府等捐贈大量防疫一線緊缺物資，為抗擊疫情提供堅強的物資保障。

復工復產 挺起責任擔當

疫情防控是一場阻擊戰，也是一場總體戰。集團遵守地方政府的部署要求，堅決落細落實疫情防控措施，嚴格管控制度，備足防疫物資，確保員工的自身安全的同時有序推進復工復產。

Safe return of employees

保障安全返崗

The Group arranged for employees to return to work in batches at staggered times to avoid cross-infection on their way back after the extended Chinese New Year holiday. Vehicles were hired to send employees back to workplace, and personnel files were managed for staff members returned from other provinces employing the "one handbook per person" model to ensure safe and orderly resumption of business and production activities.

為避免員工返程途中出現交叉感染，集團採取錯峰、分批的方式有序推進返崗復工，主動安排包車接載員工返崗，為外地員工做好「一人一冊」檔案管理，保障外來務工人員安全有序返崗。



Employees returning to work on hired vehicles
包車接載員工返崗



An epidemic prevention check point at the plant entrance
廠門口設置疫情監測崗

Orderly production

保障有序生產

During the Covid-19 outbreak, the Group has offered effective guidance on epidemic control and work resumption to raise the employees' awareness of the importance of epidemic prevention and containment measures. We conducted regular cleaning and disinfection inside factories on a daily basis, and adopted rigorous management measures among on-the-job employees such as body temperature monitoring and staggered lunch breaks, effectively enforced job-accountability among main entities responsible for epidemic prevention and control, stepped up relevant publicity efforts, and actively restarted business and production operations in an orderly fashion while ensuring work safety and effective epidemic control.

防疫復工期間，為了提高員工的防疫意識，集團全面做好防控措施與復工指引，每天定時對工廠內部進行清潔消毒，加強對在崗員工的管理，比如體溫監測、錯峰用餐等，落實防控主體責任，加大防控宣傳，在確保安全防疫的前提下，積極有序推進復工復產。



Production activities restarted in an orderly fashion, with effective control implemented across the different stages of the production process from raw materials all the way through to finished products
有序恢復生產，把好從原料到成品的每一道關卡



Adhering to a core branding strategy focusing on "quality, platformization and globalisation", the Group has always benchmarked its technology development efforts against the international standards in its pursuit of innovation-driven growth, promoted production process management and control in a deep-going way, and provided clients with increasingly diverse products and services offering the optimal price-performance ratio, in line with its commitment to reviving home-grown industries and establishing itself as a world-class conglomerate.

集團堅持「品質化、平台化、全球化」的品牌核心戰略，始終以同步全球的科研力量不斷創新發展，深入推進生產流程管控，為客戶提供更多高性價比的產品和服務，努力實現成為振興中華民族工業、創建國際一流企業的企業目標。

- Customer satisfaction: 99%
- 230 patents were filed
- 51,359 person-times of safety awareness training activities were organised

- 客戶滿意度 99%
- 申請專利 230 件
- 組織開展各類安全意識教育培訓 51,359 人次

QUALITY PRODUCTS
AND SERVICES THAT
CONNECT US WITH
THE WORLD

聯接世界
塑造品質

Product innovations

Innovation is what motivates businesses to deliver sustainable development. The Group ratcheted up technology research and innovation efforts to consistently improve product quality, and diversified product lines to meet the actual needs of different consumers, with the aim of making life more enjoyable for people across the world. In 2019, the Group invested a total of RMB 856 million in research and development and technological innovation initiatives.

Forging Innovation Ability

Upholding the branding philosophy of "entrepreneurship, innovation, scientific management and perfectionism", the Group has continuously revamped the technology innovation management system, boosted the development of scientific research and innovation platforms, achieved highly efficient allocations of internal and external innovation resources, and built on the team of innovative professionals, injecting fresh momentum for business development.

Enhancing R&D management 提升科研管理

We further developed the R&D management system with the launch of the third phase of the product lifecycle management initiative, introduced the project management model, and improved management efficiency through the integration with the OA system and the addition of reporting functionality.

完善科研管理制度，上線產品生命週期管理項目第三期，推行項目管理模式，通過與OA系統完成協同連接、新增報表功能等方式提升管理效率。

Building an R&D platform 建設科研平台

With the establishment of the "Workstation for Academicians and Experts in Guangdong", we carried out a full range of basic and applied studies on materials, equipment, and processes to improve the overall technological standard of the plastic pipe industry, focusing primarily on the key technologies of plastic processing and molding and generic issues in the industry, unlocking the full potential of the academicians team.

建立「廣東省院士專家工作站」，充分發揮院士團隊的科研優勢，以塑料加工成型關鍵技術和行業共性問題為研究重點，開展材料、裝備、工藝等全方位的基礎及應用研究，推動塑料管道行業的技術水平提升。

R&D team-building 培養科研人才

Through collaboration with Academician Qu Jinping of South China University of Technology and his innovative team, we built the "China Lesso Plastic Pipe Workstation for Academicians", and jointly conducted research projects such as the "Two-way Stretching PVC Tube Continuous Forming Technology". During the joint construction of the workstations, China Lesso, Academician Qu and his team co-founded Guangdong Liansu Technology Industrial Co., Ltd. (as the "Professional Degree Postgraduate Joint Training Base" of South China University of Technology) to step up the training human resources for technology innovations.

與華南理工大學瞿金平院士及其創新團隊共建「中國聯塑塑料管道院士工作站」，共同開展「PVC雙向拉伸管連續成型技術開發」等科研項目研究，共建工作站期間與瞿金平院士及其創新團隊聯合建立「廣東聯塑科技實業有限公司-華南理工大學專業學位研究生聯合培養基地」，著力加大企業創新人才培養力度。

潛心耕耘創新產品

創新是企業持續發展的動力之源。集團加大科研創新力度，不斷提升產品品質，以更加豐富的產品線滿足消費者的不同需求，為全球居者創造更美好的輕鬆生活。2019年，集團科研開發和技術創新總投入8.56億元。

鍛造創新能力

集團堅持「開拓進取，求實創新，科學管理，精益求精」的品牌精神，不斷完善科技創新管理體系，推動科研創新平台建設，高效配置內外部創新資源，壯大企業創新人才隊伍，為企業發展注入源源不斷的活力。

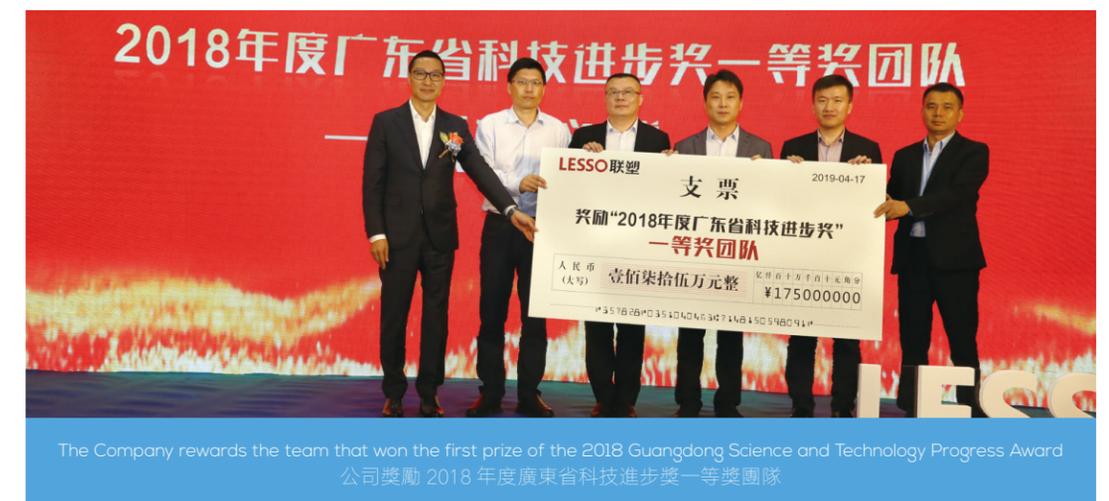
CASE 案例

China Lesso held the Technological Innovation Conference that marks the inauguration of the academicians workstation, the provincial key laboratory, and the Provincial Industrial Technology Innovation Association

中國聯塑舉行科技創新大會暨院士工作站、省重點實驗室、省產業技術創新聯盟揭牌儀式

China Lesso held the 2019 Technological Innovation Conference at the Group's headquarters in April 2019, marking the inauguration of the academicians workstation, the provincial key laboratory, and the Provincial Industrial Technology Innovation Association. In the future, leveraging these innovation and R&D platforms, China Lesso will play an active role in the development of core technologies, projects aimed at tackling generic issues in the industry and training of high-end professionals, as well as technological cooperation and exchanges, consistently building on its innovation capabilities, and promoting the development of the plastic pipe industry as a whole.

2019年4月，中國聯塑2019年科技創新大會暨院士工作站、省重點實驗室、省產業技術創新聯盟揭牌儀式在集團總部舉行。未來，聯塑集團可以借助這一系列的創新科研平台，在關鍵技術和行業共性問題項目開發、高層次人才培養、科技合作交流等方面積極作為，不斷提高創新能力，推動塑料管道行業進一步發展。



Conversion of Innovation Results

The Group stepped up the conversion of findings of innovation initiatives, promoted new product development on a comprehensive scale, continuously tightened up patent-based protection of independent innovations, and delivered positive results in terms of socioeconomic growth and environmental protection alike through technology innovation.

創新成果轉化

集團加快創新成果轉化，全面推進新產品項目開發，不斷提高自主創新成果專利保護水平，以科技創新實現經濟、環境和社會效益的共同提升。

	Key measures 重點舉措	Applications 應用領域	Implications 價值意義
Facility agriculture 設施農業	Development of square PVC-U cultivation tubes specially designed for facility agriculture. 開發設施農業專用的PVC-U方形栽培管。	Soilless cultivation of vegetables and flowers in greenhouses and for home gardening purposes. 溫室大棚、家庭園藝的蔬菜、花卉無土栽培。	Provision of eco-friendly facilities for soilless cultivation. 為無土栽培提供了綠色環保的設施保障。
Floating bridges 海上浮橋	Floating bridge overall design, construction, anchoring measures and typhoon prevention solutions. 提供海上浮橋的整體設計、施工、錨固措施和防颱風解決方案。	Maritime tourism. 海上旅遊產業。	Stimulating the development of the maritime tourism market. 助力海上旅遊產業的發展。
Mariculture cages 海洋養殖網箱	Replacing traditional offshore cage culture with highly intensive deep-sea cage culture. 以高度集約化的深海網箱養殖替代傳統的近海網箱養殖。	Mariculture. 海水養殖行業。	Improving the safety level and efficiency of mariculture activities. 為海洋養殖提升安全性、提高效率。
Fresh air system 新風系統	Improved product mix of fresh air systems based on explorations and studies of special ducts of fresh air systems. 探索研究新風系統專用管道，完善新風系統管道類產品。	Fresh air systems in residential buildings. 住宅建築新風系統。	Introducing to consumers a lifestyle that combines functionality, convenience, health and safety. 將功能性、便捷性、健康安全理念融入消費者生活中。

31 patents were granted, out of the 230 patents filed for

78 invention patents were filed for

31 utility model patents were granted, out of the 150 patents filed for

2 appearance patents were filed for

申請專利 230 件，授權專利 31 件

發明申請 78 件

申請實用新型 150 件，授權 31 件

申請外觀設計 2 件



The Group received the honorary titles of the **"4th-Batch Manufacturer Champion Demonstration Enterprise" from the Ministry of Industry and Information Technology (MIIT)** and **"2019 National Intellectual Property Advantage Enterprise"**

集團獲得「**工業和信息化部第四批製造業單項冠軍示範企業**」、「**2019 年度國家知識產權優勢企業**」稱譽

"Research and Development and Industrialization of High-performance Thick-wall High-density Polyethylene (HDPE) Pipe and Fittings", an innovation project led by China Lesso as the lead developer, won the **first prize of Guangdong Science and Technology Progress Award**

以中國聯塑為牽頭單位創新研發的「高性能厚壁高密度聚乙烯 (HDPE) 管材管件的研發及產業化」項目榮獲**廣東省科技進步一等獎**



Appraisal meeting on the "Key Technology for Manufacturing Continuous Glass Fiber Reinforced Polyethylene Composite Pipes and Industrialization Thereof" project
舉行「**連續玻纖帶增強聚乙烯複合管製造關鍵技術及產業化**」項目成果鑒定會

The appraisal meeting on the "Key Technology for Manufacturing Continuous Glass Fiber Reinforced Polyethylene Composite Pipes and Industrialization Thereof" project, led by China Lesso as the lead developer, was held at the Group's headquarters in November 2019. At the meeting, Vice President Dr. Song Keming delivered a summary report on the work involved in the project, research technology, etc. Characterised by fast production speed and high efficiency, the technology was unanimously approved by members of the appraisal panel for reaching the internationally advanced standard.



The Group's leaders pose with the guests for a group photo
與會嘉賓合影

2019年11月，由中國聯塑牽頭完成的「**連續玻纖帶增強聚乙烯複合管製造關鍵技術及產業化**」項目科學技術成果鑒定會議在集團總部舉行。會議上，副總裁宋科明博士匯報項目工作總結和研究技術等報告。該項目技術具有生產速度快，效率高等特點，達到國際領先水平，獲得鑒定委員會的一致認可。

Rigorous Production Process Control and Management

Always committed itself to guarantying customer satisfaction, the Group has implemented strict quality assurance measures, and enforced work safety requirements throughout business and production processes all the way from raw material selection, formulation and production through to product storage, honouring its responsibility toward every single production step, product and customer.

Quality Assurance

Adhering to the quality management philosophy of "Troika" (process, quality and character), the Group has continuously optimised the product quality management system through the introduction of quality-oriented information technology, and consistently reduced the scrap rate, customer complaint rate and return rate through quality tracking. No major quality incident occurred in 2019.

用心管控生產流程

集團始終以客戶滿意為宗旨，從原料的選用、配方、生產流程的控制到產品的入倉等環節，牢牢把好產品質量的每一關，全面落實安全生產工作，確保對每一道工序負責、對每一件產品負責、對每一位客戶負責。

保障產品質量

集團堅持工藝 - 質量 - 品質「三駕馬車」的質量管理理念，不斷優化產品質量管理體系，積極引入品質信息化技術，通過實施質量追溯，不斷降低產品廢品率、顧客投訴率和退貨率，2019年沒有發生重大質量事故。

Quality Management and Control 產品質量管控

- We continued to improve the product quality management system, clarified product quality assessment criteria, and effectively enforced quality-based accountability layer-by-layer.
不斷完善產品質量管理制度，明確產品質量考核標準，層層壓實生產質量責任。
- We launched the "Quality Safety Month" campaign, and held the Group's production quality analysis conference to further improve our understanding of quality control.
開展質量安全月及集團生產質量分析會，不斷提升對質量管控的思想認識。
- As regards existing quality issues, we researched into potential solutions, designated employees to oversee rectification activities, and required the relevant departments and workshops to enter into a quality accountability statement to specify post-specific quality management responsibilities for individual staff members.
針對已有質量問題，積極研究解決辦法，指定整改責任人，要求部門和車間層層簽訂質量責任書，明確各崗位人員的質量管理責任。

Product Quality Inspection 產品質量檢測

- We consistently improved various production and testing systems, and performed comprehensive multi-dimensional inspections from the incoming of raw materials, product design and sample creation to production and product delivery. It relies on the three inspection system of "self-inspection, mutual inspection and sampling inspection" to control production and ensure stable product quality.
持續完善各種生產及檢測制度，從原材料入廠，產品設計、打樣、生產到產品出廠進行全面立體檢測，依靠「自檢，互檢，抽檢」三檢制度對生產進行控制，確保產品質量穩定。

Quality Appraisal 產品質量考核

- We rate and assess internal pipeline companies based on product performance assessment indicators every year. Rectification notices are issued to departments failing to deliver the required performance, requesting them to make rectifications.
制定產品性能考核指標，每年對集團內的管道類公司進行評分考核，對考核結果未達標的相關部門發出整改通知，並督促整改。

Training of Quality Management Staff 質量管理人員培養

- We provided internal trainings on big data management and practical skills to improve staff members' professional competence. 開展大數據管理、實操型技能提升等內部培訓，不斷提升工作技能。
- We organised "quality revolution" training as well as training activities in leading enterprises jointly with the Light Industry Quality Association to promote communications and exchanges. 組織品質革命培訓、與輕工質量等協會共同走進名企學習等外出培訓活動，促進交流互動。
- External lecturers were hired to diversify teaching and learning resources. 聘請外部講師，提供更豐富的學習資源。

Product Anti-counterfeiting Applications 產品防偽應用

- Barcode and QR code anti-counterfeit labels are printed on products or packaging materials. 在產品或包裝上噴制條形碼和二維碼防偽標籤。
- Pipeline product anti-counterfeit measures have been implemented on a comprehensive scale, and an anti-counterfeiting group was set up to crack down on counterfeit goods, with the introduction of an anti-counterfeiting inquiry system. 全面推行管道防偽管理，成立市場打假小組開展打擊仿冒行為，搭建防偽查詢系統。
- We established product authenticity verification and feedback portals on the Group's WeChat public account, Weibo account and official website, and published anti-counterfeit articles from time to time to encourage consumers to participate in anti-counterfeiting queries. 在集團微信公眾號、微博、官網等建立產品真偽查詢和反饋入口，不定期發佈防偽查詢科普，引導消費者主動參與防偽查詢。

Percentage of products recalled due to safety or health risk to the total number of products sold: **0%**

已售產品總數中因安全與健康理由而須回收的百分比為 **0%**

Investigated and handled **82** anti-counterfeiting cases, including **27** cases in South China and **55** in other regions in the country

查處打假案件 **82** 件，其中華南地區 **27** 件，非華南地區 **55** 件

Cracked **18** counterfeiting dens, including **6** in South China, and **12** in other regions

查處制假窩點 **18** 個，其中華南地區 **6** 個，非華南地區 **12** 個

CASE
案例

"Lesso Pipelines Anti-counterfeiting Program - Scan a Code, and Get a Red Envelope"
推出「聯塑管道防偽掃碼領紅包」活動

In August 2019, on the basis of the existing anti-counterfeit verification system, Lesso kicked off the "Lesso Pipelines Anti-counterfeiting Program - Scan a Code, and Get a Red Envelope" campaign, enabling consumers verify the authenticity of Lesso pipelines by scanning a QR code, and safeguard their basic rights and interests, thus preventing Lesso's brand image and trademark interests from being damaged.

2019年8月，聯塑在原有的防偽查詢系統的基礎上，推出「聯塑管道防偽掃碼領紅包」活動，幫助消費者運用防偽碼辨別聯塑管道的真偽，保護消費者基本權益，保障聯塑品牌聲譽和商標利益不被侵害。



Product Recall Process

The Group has established a rigorous product recall process. For any products identified as unqualified, the Group immediately initiated the product recall process to protect consumers' health and safety with practical actions.

The product recall process



產品召回流程

集團建立了嚴格的產品召回流程，對於不合格產品，集團第一時間啟動產品召回程序，以實際行動保護消費者的健康和 safety。

產品召回流程

The warehousing department records the number of returned products and notifies the quality inspector to conduct inspection and confirmation. The warehouse processes the recalled products within one business day.

退回產品由倉儲部記錄數量並通知質檢員檢驗確認，倉庫在一個工作日內處理召回產品。

Work safety

The Group regards work safety as the foundation of the corporation. It has strictly abided by the requirements of the *Work Safety Law* and other relevant laws and regulations, and improved internal safety management systems. In addition, it has consolidated the foundation of work safety, and promoted the safe production culture in order to create a solid safety guarantee for developing the Group into a world-class enterprise.

確保安全生產

集團將安全生產作為企業立足之本，嚴格遵守《安全生產法》等法律法規要求，建立完善的安全管理體系，鞏固安全生產基礎，積極弘揚安全生產文化，為集團創建一流國際企業打造堅實的安全保障。

713 safety responsibility agreements were signed

簽署安全責任書 713 份

8,239 safety hazards investigations were conducted

排查各類安全隱患 8,239 項

51,359 person-times of safety awareness training activities were organised

組織開展各類安全意識教育培訓 51,359 人次

122 fire emergency drills were organised

開展消防應急演練 122 次

Improve safety management 完善安全管理

- We set up the Safety Supervision Department, which is independent of the entire production system, and required the department to operate in strict compliance with work safety requirements.
 成立安監部，獨立於整個生產系統，嚴格要求集團所有部門按照安全生產要求操作。
- We ramped up investment in equipment improvement and automation initiatives, and compiled operating standards for automated production equipment; and eliminated hidden safety hazards in production processes so as to prevent work safety accidents at source.
 加強對設備的改良、自動化的投入，為生產設備制定自動化設備操作規範，消除生產過程的安全隱患，在源頭上杜絕安全事故的發生。
- We assembled a special-purpose equipment safety management team to tighten up management of related equipment, and held regular meetings of the team to actively rectify issues detected.
 加強特種設備管理，成立特種設備安全管理小組，定期組織召開會議，對出現的問題點積極組織整改。

Work Safety Training 開展安全培訓

- We developed separate safety training plans for employees in different positions to familiarise them with information about related hazards, possible injuries and the corresponding protective specific to their positions.
 針對不同崗位員工制定相應的安全培訓計劃，確保員工熟悉其所在崗位的危險源、可能受到的傷害及相應的防護措施。
- We built venues for empirical training on work safety to further diversify the forms and content of safety education, and help employees improve safe production capacity.
 建設安全培訓的體驗場館，豐富安全教育的形式與內容，幫助員工提升安全生產能力。

Work Safety Implementation 實施安全生產

- Target-accountability statements were signed, and the work safety accountability policy has been enforced level-by-level.
 完成安全目標責任書簽訂，層層落實安全生產責任制。
- We continued to promote the *Work Safety Inspection System*, investigated and eliminated all kinds of safety hazards involved in production operations, and worked to reduce work-related accidents arising from unsatisfactory safety performance of equipment.
 持續推行《安全生產檢查制度》，排查並消除各類安全生產隱患，減少因設備的安全性能發生的工傷事故。
- A foolproof method was adopted to improve equipment-level protection, and damages caused to employees by misoperations were avoided by installing fully enclosed protective devices and infrared photoelectric fences.
 採用防呆法提升設備防護，通過全封閉防護裝置以及紅外線光電柵欄，避免操作違規給員工帶來的傷害。
- We strengthened the construction of the building complex management system to ensure the normal operation of firefighting equipment.
 加強樓群管理體制建設，保障消防設備的正常運行。

Dissemination of the Safety Culture 傳播安全理念

- Regular pre-shift post-shift meetings were held to notify staff members of work safety accidents, and effectively warn them against safety risk.
 通過班前班後例會對員工進行安全事故通報，加強安全警示作用。
- We implemented 6SK management (sort, set in order, shine, standardize, sustain, safety and keep healthy) in workshops to create a clean and safe working environment through concerted effort.
 車間貫徹6SK管理（6SK即「整理」、「整頓」、「清潔」、「清掃」、「紀律」、「安全」和「健康」），共同營造整潔、安全的工作環境。

CASE 案例

Fire safety emergency drill 「突擊式」消防安全逃生演練活動

In June 2019, the Group held a fire evacuation and escape drill in the Chongkou dormitory building, where the fully automatic fire monitoring system was applied for the first time. In addition to review the operation of the existing firefighting facilities and equipment, the exercise raised staff members' fire safety awareness, and improved their self-rescue skills.

2019年6月，集團在涌口宿舍樓組織開展消防疏散逃生演練，首次將全自動消防監控系統應用於消防演練，不僅對現有消防設施設備的運行情況進行檢驗，還進一步提高員工的消防安全意識，提升員工應急自救能力。



Fire Surveillance Centre
 消防監控中心

Building Quality Life with "Craftsmanship"

Upholding the branding strategy of "building a relaxing life for residents with quality Lesso products", the Group is committed to developing high-quality, innovative and practical furnishing products in line with consumers' actual needs. We will contribute to regional construction and development, making urban living more enjoyable.

Serving the Lives of Residents

Guided by product value, the Group has never stopped diversifying its pipes, building materials, interior decoration products and other offerings, in line with its commitment to making life easier and more enjoyable for consumers worldwide with high-quality, safe, durable, eco-friendly and easy-to-assemble products.

Water supply pipes, drainage pipes, communication pipes, gas pipes, home decoration pipes, heating pipes, fire pipes and agricultural pipes.

涵蓋給水管系列、排水管系列、通信管系列、燃氣管系列、家裝管系列、採暖管系列、消防管系列、農用管系列等。

Building Materials and Home Furnishing Products 建材家居產業產品



Pipeline Products
管道產品



Plumbing and sanitary ware, integrated kitchen and doors and windows, decorative plates, water purifiers, waterproof and sealant, fire fighting apparatus, valves, wires and cables, lighting and sanitary materials.

涵蓋水暖衛浴、整體廚房、整體門窗、裝飾板材、淨水設備、防水與密封膠、消防器材、閥門、電線電纜、照明、衛生材料等。

匠心構築品質生活

集團堅持「為居者構築輕鬆生活」的品牌理念，專注開發品質卓越、創新實用的產品，滿足人們對品質家居需求，助力區域建設與發展，創造更美好的城市生活。

服務居者生活

集團以產品價值為導向，不斷豐富管道、建材家居等領域的產品類型，以品質優越、安全耐用、衛生環保、施工方便等產品優勢，為全球居者創造更美好的輕鬆生活。

A global specialized market platforms integrating furnishing, building materials and consumer products.

集家居、建材、消費品於一體的全球專業市場平台。

One-stop services: Covering logistics, warehousing, distribution, installation, consulting human resources, etc. services.

一站式服務: 物流倉儲、配送安裝、商業諮詢、人力資源等一站式服務。



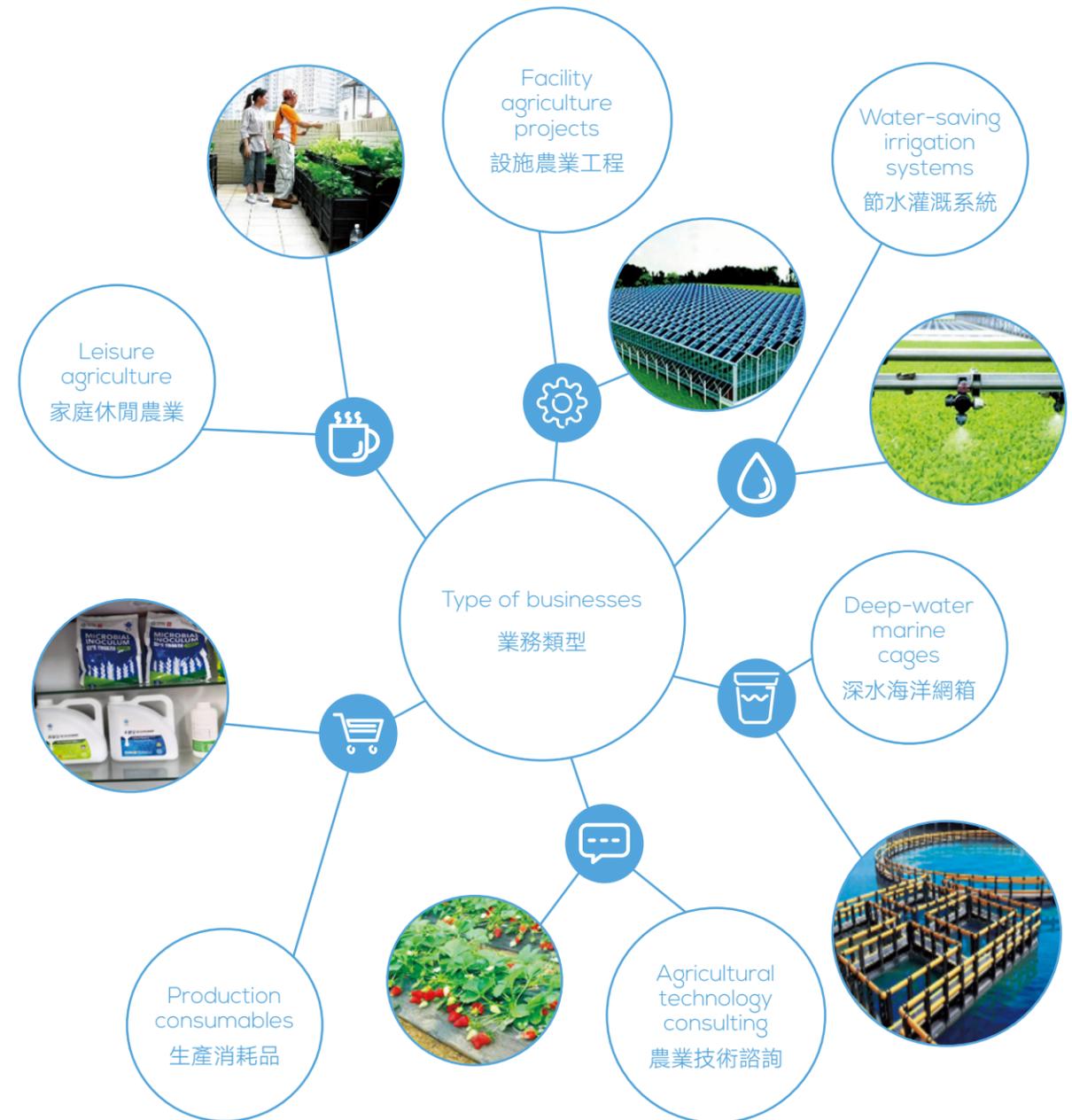
Specialized Market Platforms
專業市場平台

Modern Agriculture Development

The Group established Guangdong Lesso Tianying Facilities Agricultural Technology Co., Ltd., which specialises in R&D, production, promotion and application of modern agricultural facilities, greenhouses and irrigation equipment, and supporting facilities, pipes and building materials. In addition, it has engaged in "industry-university-research" cooperation with South China Agricultural University and Guangdong Provincial Centre of Facility Agriculture Engineering Technology Research to provide clients with integrated modern facility agriculture industry solutions, contributing to the modernisation of the agricultural industry.

發展現代農業

集團成立廣東聯塑田盈設施農業科技有限公司，致力於現代農業設施、溫室與灌溉設備、配套設施管材料供應等研發、生產、推廣應用工作。此外，集團與華南農業大學、廣東省設施農業工程技術研究中心開展產學研合作，為客戶提供專業的現代設施農業產業整體解決方案，為實現農業現代化貢獻力量。



Facility Agriculture Projects

Construction of various types of greenhouses, and the creation of the "Five Smart Systems" - greenhouse framework, environmental regulation, seedling cultivation, automated control, and harvesting support. Field surveys are performed based on clients' actual needs to develop integrated standard solutions for intelligent modern facility agriculture businesses.

- Independent R&D and production, and standardization of facilities, pipes, building materials and supporting facilities to make after-sales maintenance services easier to perform.
- Automated supervision system that keeps track of real-time changes in environmental indicators, and controls production operations safely and efficiently.

Water-saving Irrigation Systems

High-quality automated water-saving irrigation systems, including sprinkler irrigation, drip irrigation, courtyard irrigation, coupling assembly, filter, controller and rainfall sensor series.

- High precision irrigation is achieved using intelligent control systems to ensure reliable water supply, improve quality and increase production.
- Save land resources and labor costs, reduce water consumption, and improve water efficiency.

Leisure Agriculture

Small soilless cultivation devices (e.g. triangular soilless cultivation racks, PVC vertical soilless cultivation racks, PVC plug-in pipe cultivation racks and balcony wall-mounted cultivation racks) suitable for balconies, courtyards, schools, restaurants and airports. They have a relatively small footprint and are easy to manage.

- A diverse range of products is available to suit different spatial requirements, offering improved user experience and practicality as well.
- Professional cultivation instructions, with after-sales services provided for seedlings, fertilisation and disease prevention and control.

設施農業工程

各類型溫室大棚建造，構建溫室框架、環境調控、育苗栽培、智能控制、採收配套五大智能系統。根據客戶需求進行實地勘測設計，提供標準化智能化現代設施農業產業整體解決方案。

- 自主研發生產，設施管材建材配套設施標準化，方便售後維修。
- 智能監管系統，隨時掌握環境指標動態，安全高效控制生產。

節水灌溉系統

提供優質智能節水灌溉系統，包括噴灌、滴灌、庭院灌溉、連接組件、過濾設備、控制器、雨量傳感器等不同系列產品。

- 使用智能控制系統精量灌溉，保證水分穩定供應，提質增產。
- 節約土地資源，降低勞動成本，減少水量消耗，提高節水效率。

休閒農業領域

用於陽台、庭院、學校、餐廳、酒樓、機場的小型無土栽培裝置，如三角式無土栽培架，PVC管立式無土栽培架，PVC管插接式管道栽培架，陽台壁掛栽培架等，占地面積小，易於管理。

- 產品樣式豐富，滿足不同場地需求，兼顧體驗感與實用性。
- 專業栽培指導，提供種苗、肥料、病害預防控制等售後服務。

Boosting Regional Development

The Group actively supported Beijing-Tianjin-Hebei integrated development and other national strategies leveraging its product and brand advantages, developed integrated solutions for infrastructure construction in the Xiongan New Area, and contributed to the development of major projects such as the Beijing Daxing International Airport, boosting regional development with premium quality products.

CASE 案例 Lesso took part in Xiongan Expo with its pipeline products 管道產品亮相雄安博覽會

With the main theme "Qiongan, an Eco-friendly and Smart City", China (Xiongan) Infrastructure Investment and Urban Construction Expo was held in Xiongan county in March 2019. China Lesso brought its pipeline products to the exposition to showcase its latest urban underground piping systems, sponge city, smart pipe network and pipeline products, contributing to infrastructure developing in the Xiongan New Area with fully integrated infrastructure solutions.

助力區域發展

集團積極響應京津冀協同發展等國家戰略，充分發揮自身產品和品牌優勢，為雄安新區基礎建設提供一體化解決方案，助力北京大興國際機場等重點工程建設，以聯塑品質促進區域發展。

2019年3月，以「生態城市、智慧雄安」為主題的中國（雄安）基礎設施投資與城市建設博覽會在雄安新區雄縣包裝城廣場隆重開幕。中國聯塑攜旗下管道產品亮相雄安博覽會，重點展示城市綜合管廊、海綿城市、智慧管網及管道新品，為雄安新區基礎建設提供一體化解決方案。



Lesso brought its pipeline products to the Xiongan Expo
中國聯塑攜旗下管道產品亮相雄安博覽會



Scan the code to watch "Made in Foshan - China Lesso Commits Itself to Accelerating the Upgrading of Marine Fisheries through Effective Ecological and Environmental Protection"
掃一掃觀看《佛山製造 | 中國聯塑投身生態環保為海洋漁業升級提速》

CASE
案例

Lesso products are extensively used at Beijing Daxing International Airport
為北京大興國際機場順利投運貢獻力量

Relying on its strengths building materials applications, the Group supplied high-quality water supply, drainage and firewater systems at the Daxing International Airport, which played an important role in ensuring the successful launch of the airport.

Reliable water supply at the Daxing airport via Lesso pipes

Lesso PP-R water supply pipes are manufactured with recyclable and environmentally friendly raw materials offering exceptional performance in terms of heat resistance, pressure resistance, energy saving and durability. The products do not produce any heavy-metal or other health-threatening substances, ensuring high-quality water supplies for customers at the airport. In addition, featuring unique electrofusion connection and hot fusion butt technology, Lesso PE water supply pipes are widely noted for reliable connection and low installation costs, and contributed significantly to the successful construction of the airport water supply system at the airport.

Lesso drainage pipes are effectively applied in the Daxing airport

Lesso HDPE Winding Structure Wall Reinforced Pipe (type B) is lightweight, pressure-resistant, corrosion-resistant and easy to use, and offers high-quality interfaces, and a high degree of ring-stiffness, contributing to the secure and smooth drainage system at the airport. Furthermore, Lesso PVC pipes and fittings are essentially lead-free, eliminating the risk of secondary pollution in the airport's drainage system.

Lesso firewater pipes guarantee fire safety at the Daxing airport

Lesso steel wire frame plastic (PE) composite water supply pipe is corrosion-resistant, non-scaling, smooth, heat-resistant and wear-resistant with low resistivity and exceptional quality. It is used for underground firewater supply at the airport and effectively supplies water for fire protection, thus playing an important role in the airport's the fire protection system.

集團充分發揮在建築材料應用領域的實力，為北京大興國際機場提供良好的給水系統、排水系統、消防給水系統產品，助力北京大興機場順利投運。

聯塑給水管為大興機場安全供水

聯塑 PP-R 給水管採用可循環再用的環保原料，具有耐熱、耐壓、節能、壽命長的優點，不會釋放出重金屬等損壞健康的物質，滿足機場為客戶供給優質水資源的需求。此外，聯塑 PE 給水管因獨特的電熔連接和熱熔對接技術，連接可靠，施工成本低，助力機場供水系統順利建設。

聯塑排水管道助大興機場排污更順暢

聯塑 HDPE 纏繞結構壁 B 型管具有重量輕、承壓強、接口好、耐腐蝕、環剛度高、施工方便等優點，讓機場的排水系統更安全順暢。而且，聯塑 PVC 管材、管件基本實現無鉛化，更能保證大興機場的排水系統不會產生二次污染。

聯塑消防給水管為大興機場消防安全提供堅強後盾

聯塑鋼絲網骨架塑料 (PE) 複合給水管具有防腐、不結垢、光滑低阻、耐溫性能好、耐磨、質量好的優點，應用於機場埋地消防給水，有效為消防輸送水資源，擔當著北京大興國際機場消防系統中重要的角色。



Lesso pipes are widely applied in the Daxing International Airport
聯塑管道應用於北京大興國際機場建設

The Ultimate User Experience

Upholding the business strategy of "customer satisfaction first", the Group has continuously improved the workflow of one-stop services, innovated existing service models, and enhanced service quality, ultimately bringing improved user experience to its clients.

One-stop Services

The Group provides clients with one-stop services covering various services before, during and after sales of products. It has consistently improved the standards of such services by assembling professional sales teams, optimizing service processes and diversifying services provided, effectively addressing clients' concerns with high-quality services.

The entire service process

全過程服務流程



We understand customer needs, collect customer feedback, and develop reasonable and effective product supply and technical service plans, making effective preparations in terms of production, inspection, sales and transportation activities.

了解客戶的需求，收集客戶意見，從生產、檢驗、銷售和運輸上做好服務準備，制定出合理有效的供貨、技術服務方案。

Employees are assigned to work in frontline positions, and products detected with quality issues caused by mishandling or other human errors are immediately replaced or returned to ensure high product quality.

駐點市場一線，對存在裝卸不當等人為質量問題的產品及時退換貨，確保產品質量。

We develop teaching plans and easy-to-understand handouts and provide free engineering technical manuals. 編制教學方案和通俗易懂的講義，並免費提供工程技術手冊。

We provide satisfactory answers to questions or provide reasonable solutions to customer questions within the shortest time possible.

在最短的時間內對客戶提出的疑問作出滿意的解答或提供合理的使用方案。

We rush to the scene to solve problems for users.

趕赴現場為用戶排憂解難。

貼心營造舒適體驗

集團始終堅持「以客戶滿意為宗旨」的經營方針，持續完善一站式服務流程，創新服務模式，提升服務品質，致力於為客戶帶來更好的服務體驗。

提供一站式服務

集團為客戶提供售前、售中及售後的一站式服務，並通過組建專業服務團隊、優化服務流程，豐富服務內容等方式不斷提升服務水平，用心為客戶排憂解難。

We adhere to the service concept of "quick response, quality service, transmitting technology and timely delivery", establishing technical support, product quality follow-ups and effective information feedback and improvement mechanisms.

奉行「快速響應、優質服務、傳送技術並及時到位」的服務理念，建立技術支持、產品質量回訪、良好的信息反饋及改進機制。

CASE
案例

"Lesso Classroom for Clients" offers more value-added services for clients
「聯塑客戶學堂」為客戶提供更多的增值服務

In 2019, leveraging the technological and resource strengths of the online learning platform, the Group brought more training and value-added services to its clients, and introduced new courses on WeChat marketing, business etiquette, dressing tips, workplace communication and communication skills in the "Lesso Classroom for Clients" to empower the clients and bring about long-term, win-win cooperation between them and the Group.

2019年，集團充分利用在線學習平台的技術和資源優勢，為客戶提供更多培訓增值服務，在「聯塑客戶學堂」中增設微信營銷、商務禮儀、著裝技巧、職場交流、溝通技巧等課程，為客戶全面賦能，實現集團與客戶的長期合作發展與共贏。



Login page of "Lesso Classroom for Clients"
「聯塑客戶學堂」界面

Expanding Sales Channels

With the concept of cooperation, win-win, intelligence and internationalization, the Group has built a global O2O specialized market platform, shifting from a single offline sales network to a combined online-offline network. Efforts have been made to continuously ratchet up the development and management of offline sales networks, leaving customers with diverse experiences and services.

拓展銷售渠道

集團以合作、共贏、智能、國際化的理念，打造全球 O2O 專業市場平台，從單一的線下網絡銷售轉變為線上線下相結合，同時不斷加強線下各級銷售網絡開發和管理，為客戶提供多元體驗和服務。

Showrooms in Shopping Malls
商城展廳

These showrooms sell furnishing products and building material to market insiders and general consumers alike, bringing together innovation and creativity to ensure an excellent shopping experience. They are also well integrated into the local communities.

專門售賣家居建材產品的，為業內人士和消費者提供便利，更會匯集創新與創意，保證優越購物體驗，融入當地社區生活。

Service Outlets and Warehouse Showrooms
服務點和展銷倉

Brick-and-mortar service outlets located across the world that provide pre-sale, after-sales and sales-related services. 廣佈全球的實體服務據點，提供售前、售中和售後服務。

Service outlets: Convenient transaction points where face-to-face supports such as order fulfillment, communications with suppliers and cross-border shipment tracking, are provided.

服務點：便捷的交易站點，提供面對面支援，例如完成交易、與供應商溝通、以及跨境物流查詢。

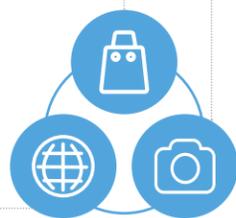
Warehouse showrooms: As an extension to the service outlets, these showrooms have a special product display section, allowing customers to get a more complete offline shopping experience.

展銷倉：服務點的擴展版本，附有產品展示區域，客戶可以在這裡獲得更加豐富的實體採購體驗。

Website
網站

Simple and user-friendly international trade is conducted via the online sales platform.

線上銷售平台實現簡單、快捷的全球貿易。



Protection of Customer Rights and Interests

The Group attaches due attention to the protection of customers' interests and information security, and identifies, understands and satisfies their needs to continuously improve service quality and customer satisfaction.

保障客戶權益

集團注重保護客戶的合法權益和信息安全，及時識別、了解和滿足客戶需要，不斷提升服務質量和客戶滿意度。

Responsible Marketing
負責任營銷

The Group has formulated the *Management Measures on Advertising Resources* to unify the application specifications of advertising, label use and marketing activities, and insisted on conforming product labeling and advertisement with the requirements of laws, regulations, rules and other regulatory documents, in order to ensure the authenticity and reliability of product promotion to achieve responsible marketing.

制定《廣告資源管理辦法》，統一廣告宣傳、標籤使用、營銷活動的應用規範，堅持產品標籤和廣告宣傳符合法律、法規、規章及其他規範性文件要求，確保產品宣傳的真實性、可靠性，實現負責任的營銷。

Customer Feedback
客戶意見反饋

The Group listens to customers' voices via telephone, WeChat, email, fax and corporate communication (cc), and timely conveys customer feedback to relevant departments, and continuously follows up feedback until the customer is satisfied.

通過電話、微信、郵箱、傳真及企業溝通平台 CC 等渠道傾聽客戶聲音，及時將客戶反饋意見傳達到相關部門，並作持續的跟進反饋，直至客戶滿意。

Protecting Customer Privacy
客戶私隱保護

The Group attaches great importance to customer privacy and information security, strengthens customer information management and guards against customer privacy leakage risks with strict and standardized processes and operational procedures to ensure customer privacy.

重視客戶的私隱和信息安全，加強客戶的信息管理，以嚴格規範的流程和操作程序防範客戶私隱洩露風險，切實保障客戶私隱。

Customer satisfaction: 99%

Complaints arising from leakage of customer privacy: 0

Valid complaints on products or services received: 15

Customer complaint response rate: 100%

客戶滿意度達 99%

因洩露客戶隱私接獲投訴數目 0 個

接獲關於產品或服務的有效投訴 15 宗

客戶投訴回復率 100%



As globalisation continues to deepen, climate change poses a serious challenge to the sustainable development of mankind. By gradually improving environmental management, practising green operations, improving the utilization efficiency of energy resources, and strictly managing waste discharge, the Group has actively responded to climate change, and effectively passed on the philosophy of green development to the public, contributing to the construction of a "Beautiful China".

隨著全球化發展的不斷深入，氣候變化已成為人類實現可持續發展所面臨的重要挑戰。集團積極應對氣候變化，完善環境管理，踐行綠色運營，提升能源資源使用效率，嚴控廢棄物排放，發展環保產業，將環保理念傳遞給公眾，共建美麗中國。

- 23.96 million Wh of PV power generated in 2019
- 3.75 million tons of water resources recycled in 2019
- 107,731.24 tons of waste recycled in 2019
- 光伏發電量 2,396 萬千瓦時
- 循環利用水量 375 萬噸
- 回收廢棄物 107,731.24 噸

Note: The recycled waste includes plastics, engine oil, oil barrels, tinplate cans, etc.
註：回收廢棄物包含塑料、機油、油桶、鐵罐等。

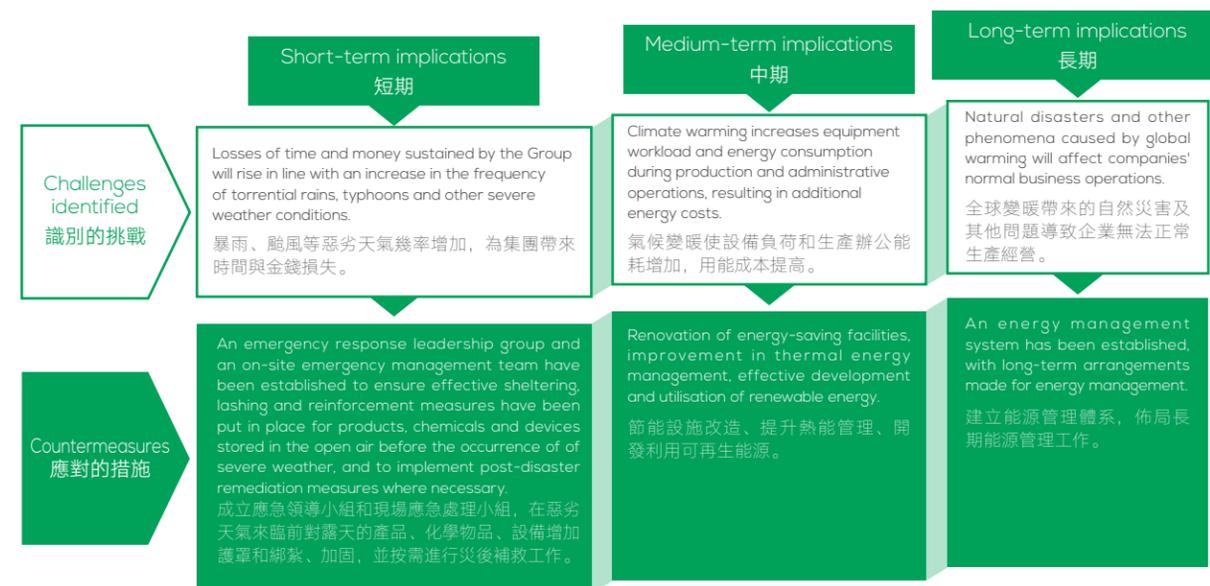
ENVIRONMENTAL PROTECTION THAT CONNECTS US WITH NATURE

聯接自然 塑造環保

Responding to Climate Change through Concerted Efforts

In line with the government's appeal to develop "ecological civilization", the Group worked out effective countermeasures to climate change based on a clear understanding of the challenges involved, and continuously built on its energy and greenhouse gas management capabilities to tackle issues caused by climate change in accordance with the *Energy Conservation Law of the People's Republic of China*, facilitating the formation of a community of shared future for mankind.

RMB **14.10** million was invested in production facility transformation projects aimed at reducing energy consumption



Energy Management System

The Group compiled and rigorously enforced the *Energy Management Handbook* as well as procedural documents concerning the energy system, built the energy management system, conducted energy management work in a systematic fashion, continuously pushed forward certification of the energy management system, and further systematised, institutionalised and informatised energy management operations. As of the end of 2019, the Group delivered on the overall energy management target of consuming 39 kilograms of standard coal or less per ton of products, and passed the ISO 50001: 2018 energy management system certification.

Energy Consumption Management

The Group proactively eliminated backward production capacity, replaced high-energy-consumption production equipment in some plants with energy-saving equipment, and reduced heat loss and power consumption by applying cotton insulation in heating parts of the machines; replaced some equipment and motors with servocontrol systems; and installed LED lighting systems in some plants to reduce lighting-related energy consumption.

齊心應對氣候變化

集團積極響應國家生態文明建設的號召，充分識別氣候變化帶來的各種挑戰並制定有效的應對措施，根據《中華人民共和國節約能源法》等相關法律法規要求，不斷提升企業能源管理及溫室氣體管理的能力和水平，助力緩解氣候變化帶來的問題，推動構建人類命運共同體。

節能改造投入 **1,410** 萬元

能源管理體系

集團制定並嚴格執行《能源管理手冊》及能源體系程序文件，搭建能源管理系統，科學開展能源管理工作，持續推動能源管理體系認證工作，提升能源管理體系化、制度化和信息化水平。截至 2019 年底，集團已達成小於或等於 39 千克標準煤 / 噸產品的綜合能耗目標，並獲得 ISO 50001: 2018 能源管理體系認證。

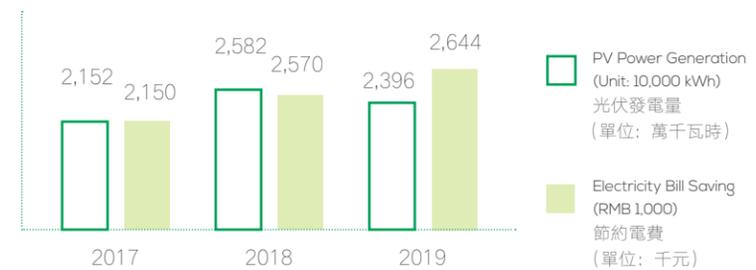
能耗管理

集團主動淘汰落後產能，將部分車間的高耗能生產設備更換為節能設備，對機台的加熱部分包裹隔熱棉等方式，減少設備熱量損耗，降低用電能耗；部分能耗高的設備、電機改為伺服控制系統；部分車間改用 LED 照明系統以降低照明能源消耗。

Thermal Management

The Group launched the air compressor waste-heat recovery project: By transforming the air compressor room, thermal energy recovered is used for hot water and heating supplies in cafeterias and dormitories, resulting in more effective recovery of thermal energy.

PV Power Generation and Electricity Bill Savings at the Group (2017-2019) 2017-2019 年集團光伏發電量及節約電費



Note: This year, the basis for calculating PV tariff savings is corrected to the PV tariff bill, so the result is more accurate than in previous years.

註：本年度將光伏發電節約電費的計算依據更正為光伏電費的結算單，故所得結果較往年更準確。

Energy Consumption 2017-2019

	Electricity/10,000 kWh 電能 / 萬千瓦時	Diesel/Ton 柴油 / 噸	Gasoline/Ton 汽油 / 噸	Natural Gas/10,000m ³ 天然氣 / 萬立方米	Lubricating Oil/Ton 潤滑油 / 噸
2017	83,916.55	2,403.09	485.13	358.15	190.37
2018	98,759.51	1,826.64	634.05	499.38	105.82
2019	107,922.78	2,740.50	908.96	311.16	97.64

Greenhouse Gas Emissions in 2017-2019

	Nitrous Oxide/Ton of CO ₂ e 氧化亞氮 / 噸二氧化碳當量	Carbon Dioxide/Ton of CO ₂ e 二氧化碳 / 噸二氧化碳當量	Methane/Ton of CO ₂ e 甲烷 / 噸二氧化碳當量
2017	232.50	449,727.00	3.57
2018	319.26	574,062.61	4.21
2019	485.53	609,140.31	6.05

Note: From 2018 onwards, the statistics scope of GHG emissions has been based on Category 1 plus Category 2 and GWP 310 for NOx and GWP 21 for methane are introduced into the GHG calculations for mobile and stationary sources. Greenhouse gas emissions disclosed in the 2017 report have been recalculated in this report, so the 2017-2019 data can be compared. Category 1 measures direct greenhouse gas emissions from operations owned or controlled by the Group; and Category 2 measures indirect greenhouse gas emissions caused by the electricity externally purchased by the Group.

註：自 2018 年起，溫室氣體排放量統計範圍在範疇一的基礎上，加入範疇二，並在對流動氣源和固定氣源的溫室氣體計算中引入氮氧化物的全球變暖潛能值 310 和甲烷的全球變暖潛能值 21。本報告已對 2017 年報告中披露的溫室氣體排放量進行重新計算，故 2017-2019 年數據可作對比。範疇一包括集團擁有或控制業務導致的直接溫室氣體排放；範疇二為集團外購電力所導致的間接溫室氣體排放。

熱能管理

集團啟動空壓機餘熱回收項目，通過改造空壓機房，回收熱能用於飯堂宿舍生活熱水供應，宿舍供暖，加強熱能回收利用。

Development of Renewable Energy

The photovoltaic projects of the Hainan and Maoming subsidiaries were completed and connected to the grid for power generation. As of the end of 2019, the installed capacity of the Group's distributed solar power generating units was 23.96 MWh.

開發可再生能源

海南公司及茂名公司光伏項目完成並網發電。截至 2019 年底，集團分布式太陽能光伏發電量 2,396 萬千瓦時。

2017-2019 年能源消耗量

2017-2019 年溫室氣體排放量

Greenification of Operations with Perseverance

The Group has embraced the green development philosophy throughout production and business operations, rigorously implemented multi-dimensional and full-process environmental management policies to reduce pollutant emissions and energy consumption; and continuously pushed forward "greenification of offices", promoting the harmony between the Company and the environment through green operations.

RMB **37.75** million was invested in environmental protection initiatives



China Lesso won the **"Leading Environmental Protection Brand in China's Furnishing and Building Materials Market" award**

中國聯塑集團榮獲「中國家居建材行業環保領軍品牌」

恒心秉持綠色運營

集團在生產運營過程中始終秉持綠色發展理念，嚴格執行全方位、全流程的環境管理，減少污染物排放，降低資源消耗，持續推行綠色辦公，以綠色運營助力企業與環境和諧共生發展。

環保投入費用 **3,775** 萬元

Environmental Management

While strictly adhering to the *Environmental Protection Law of the People's Republic of China* and other relevant laws and regulations, the Group has gradually implemented the Quality, Environment and Occupational Health (QEO) certification model across the entire group and its subsidiaries to ensure that the Group's environmental management is scientific and effective. As the end of 2019, the ISO 9001 quality management system, ISO 14001 environmental management system and OHSAS 18001 occupational health and safety management system had operated effectively at the headquarters and more than 30 subsidiaries, and the China Environmental Labeling Certification had been granted to Lesso water supply PVC-U pipes and fittings, PVC-M pipes, water supply PP-R pipes and fittings, PP-R steady-state pipes and PE pipes and fittings.

A Comprehensive Environmental Management System

The Group has introduced a series of regulations and control documents such as the *Water Pollution Prevention Management Regulations*, *Air Pollution Prevention Management Regulations*, *Noise Pollution Management Regulations*, *Waste Management Regulations*, *Environmental Protection/Safety Accident Emergency Response Plan* to thoroughly assess the impacts on the environmental, and enforce strict control and management measures, ensuring effective environmental management.

環境管理

集團嚴格遵守《中華人民共和國環境保護法》等法律法規要求，逐步推進集團及附屬公司的質量、環境及職業健康安全管理体系（QEO）一體化認證，確保環境管理科學有效。截至2019年底，總公司及下屬的30多家子公司的ISO 9001 質量管理體系、ISO 14001 環境管理體系和OHSAS 18001 職業健康安全管理体系的有效運行；給水PVC-U 管材管件，PVC-M 管材、給水PP-R 管材管件，PP-R 穩態管、PE 管材管件等產品獲得中國環境標誌產品認證證書。

全方位環境管理制度建設

集團制定《水污染防治管理規定》《大氣污染防治管理規定》《噪音污染管理規定》《廢棄物管理規定》《環保 / 安全事故應急預案》等規章制度和控制文件，全面識別生產運營過程中的環境影響並實行嚴格管控，確保環境管理到位。

Environmental Management Covering Entire R&D and Production Processes

Product design stage: When designing a new product, the Group takes steps to minimise the environmental impacts of the product itself and the product production process, and carry out product design in accordance with relevant environmental standards to ensure conformity to all performance parameters and requirements.

Product R&D stage: At this stage, the R&D department selects product raw materials that do not pollute the environment and conform to environmental protection and hygiene requirements; waste treatment plans and measures are developed during the initial R&D stage, and innovation research is continuously conducted to improve resource utilization.

Production stage: The plants perform on-site environmental protection management on an ongoing basis in strict compliance with the 6SK on-site management requirements, so as to ensure regulatory compliance in the discharge and treatment of noises, exhaust gas, wastewater and hazardous chemicals. Efforts were made to continuously improve the production environment to eliminate any harm caused to the surrounding environment.

Effective Environmental Monitoring

The Group has introduced control documents such as the *Control Procedures for Environmental and Occupational Safety Management Monitoring and Measurement* and the *Control Procedures Concerning the Identification and Assessment of Environmental Factors*, held annual environmental impact factor identification and assessment to determine important environmental factors, and drew up control measures accordingly to reduce potential environmental risks, ensuring that all environment control measures are effectively enforced across-the-board.

Clean Production

The Group exercises strict control over pollution generated during production processes, identifies and classifies various types of pollution sources and pollutants, conducts targeted waste treatment by improving existing techniques and recycling waste materials to ensure compliance with laws and regulations related to pollutant discharge and emissions, and promotes the development of the green economy by minimizing the impacts of production activities on the environment.

全流程研發生產環境管理

產品設計階段：集團在對產品設計時就將減少產品本身及產品生產過程中對環境的影響因素納入考慮範圍，並依據相對應的環境標準要求進行產品設計，確保各項性能滿足標準要求。

產品研發階段：研發部門在產品研發時便選用對環境無污染的產品原材料，符合環保衛生檢測要求；在開發的初期就制定好廢舊料的處理方案和措施，並持續進行創新研究以提高資源利用率。

產品生產階段：生產車間嚴格按照6SK現場管理要求，持續開展現場環保管理工作，確保噪音、廢氣、廢水及危化物合規排放和處理，不斷改善生產環境，避免對周邊環境產生危害。

全力推動落實環保監測

集團建立《環境、職安管理監視和測量控制程序》《環境因素識別與評價控制程序》等控制文件，每年度開展一次環境影響因素識別和評價，確定重要環境因素，並據此制定相應的控制措施和方案，降低潛在環境風險；涉及新、擴、改的項目建設均按要求完成環境影響評價；主動接受環保監測站的監測，確保各項環境控制措施有效落實。

清潔生產

集團嚴格管控生產過程中產生的污染，對各類污染源、污染物進行識別、分類並通過技術改進、回收利用等方式進行針對性治理，確保污染物排放符合相關法律法規要求，降低企業生產運營對環境的影響，推動綠色經濟發展。

Treatment of Wastewater

The Group treats industrial wastewater and domestic sewage separately and discharges them in strict compliance with the *Law of the People's Republic of China on Prevention and Control of Water Pollution* and other relevant laws and regulations, and engages properly qualified companies to process non-recyclable wastewater to avoid water pollution. In 2019, we discharged a total of 2,431,009 tons of domestic wastewater in compliance with the regulations.

Canteen sewage: It is strictly forbidden to wash dishes with phosphorus-containing detergent or pour any residual oil or leftovers from the canteen into the sewage; and domestic waste filtered from the sewage of the canteen is treated in compliance with the *Regulations on Waste Management*.

Sanitary wastewater: The operation of toilet facilities should be regularly checked, and septic tanks should be cleaned once a year.

Rainwater control: Rainwater control Rainwater collection pipes should be installed to separate rainwater from sewage; and it is strictly forbidden to stack industrial or domestic waste in the open air to prevent the rainwater from being polluted.

Waste Management

The Group introduced the *Regulations on Waste Management* in strict compliance with the *Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste* and other regulations, rigorously controlled and managed hazardous and non-hazardous waste generated during production and business activities, and minimised the environmental impacts of waste materials by cutting down on their volume and conducting harmless treatment and recycling.

Amount of Recycled Waste (2017-2019) 2017-2019 年廢棄物回收量 (部分列舉)

	Hazardous Wastes 有害廢棄物		Non-hazardous Wastes 無害廢棄物	
	Used Oil Barrels/Ton 廢油桶 / 噸	Used Oil/Ton 廢機油 / 噸	Plastics/Ton 塑料 / 噸	Used Tinplate Cans/Ton 廢鐵罐 / 噸
2017	9.42	122.05	5,874.71	48.14
2018	34.14	33.68	9,942.28	105.78
2019	604.48	15.65	105,989.85	1,121.26

Note: Recycled wastes include not only wastes generated in the year but also wastes properly stored but not disposed of in previous years. In addition, this year the Group has strengthened the monitoring of its subsidiaries' waste recycling statistics, so the scope of waste recycling statistics is more complete than those of previous years.

註: 回收的廢棄物不限於當年所產生的廢棄物, 還包括往年已妥善存放、未處理的廢棄物, 此外, 本年度重點加強對子公司廢棄物回收量統計的監督, 廢棄物回收量統計範圍較往年更完整。

廢水處理

集團嚴格遵循《中華人民共和國水污染防治法》等法律法規要求, 將工業廢水和生活污水區分處理、合規排放, 對無法循環利用的廢水經由有資質公司合法處理, 避免水體污染。2019年集團合法排放生活污水 2,431,009 噸。

食堂污水: 嚴禁使用含磷洗滌劑沖洗餐具, 嚴禁將食堂殘油、剩飯菜渣倒入污水管道, 並按《廢棄物管理規定》處理食堂污水中過濾的生活垃圾。

廁所污水: 經常檢查廁所設備運行情況, 一年處理一次化糞池。

雨水控制: 設置雨水收集管道, 將雨水與污水進行分離; 禁止露天堆放生產和生活垃圾, 防止雨水污染。

廢棄物管理

集團嚴格遵照《中華人民共和國固體廢棄物污染環境防治法》等法律法規要求, 制定《廢棄物管理規定》, 嚴格管控企業生產運營中產生的有害及無害廢棄物, 通過分類處理、減量化、無害化或回收利用等措施降低廢棄物對環境的影響。

Control of Hazardous Wastes

With regard to the treatment of hazardous wastes, the Group has strict control measures in place throughout the entire process of classification, procurement, storage, use, disposal, fixed placement and transfer to qualified third-party companies to ensure regulatory compliance in the disposal of hazardous wastes, and third-party monitoring is accepted; and ink coding has been replaced by laser coding to prevent secondary pollution caused by hazardous waste ink.

The Group produced **6,336** tons of hazardous wastes, and **6,242** tons were disposed of in compliance with the regulations

Note: Hazardous wastes not being disposed of this year have been properly stored and are to be disposed of in compliance with the regulations.

註: 本年度未處理的有害廢棄物已妥善存放, 以待合規處置。

Hazardous Waste Type 有害廢棄物種類	Treatment Method 處理方式
Used mineral oil 廢礦物油類	Outsourced to recycling companies, classified storage and recycling.
Used emulsion 廢乳化液	交由回收公司分類儲存、回收利用。
Printer ink and paint 油墨、塗料廢物	Outsourced to recycling companies. 交由回收公司回收再利用。
Mercury-containing waste 含汞廢物	
Waste acid, waste liquid from laboratories 廢酸、化驗室的廢液	
Waste halogenated organic solvents 廢鹵化有機溶劑	Outsourced to qualified waste treatment service providers.
Waste organic solvents 廢有機溶劑	交由有資質公司處理。
Waste chemical containers, empty cans 化學品空瓶、空罐	
Sludge 污泥	

有害廢棄物控制

集團對危險廢棄物從採購、儲存、使用, 到廢棄、定點放置、移交有資質的第三方的全過程進行嚴格管控, 並主動接受第三方監測; 逐步採用激光代替油墨噴碼, 杜絕危廢油墨產生的二次污染。

產生有害廢棄物 **6,336** 噸

合規處置有害廢棄物 **6,242** 噸

Treatment of Non-hazardous Wastes

For non-hazardous wastes generated during operation, the Group has entrusted qualified recycling companies for processing or secondary processing to promote sustainable use of resources.

The Group produced **82,505.14** tons of non-hazardous wastes, and **82,004.17** tons were disposed of in compliance with the regulations

Note: Non-hazardous wastes not being disposed of this year have been properly stored and are to be disposed of in compliance with the regulations.
註：本年度未處理的無害廢棄物已妥善存放，以待合規處置。

Non-hazardous Waste Type 無害廢棄物種類	Treatment Method 處理方式
Copper scraps 銅沙	Sold to recycling companies. 賣給回收公司。
Leftover bits and pieces of copper composite strips 銅類複合帶邊角餘料	
Iron scraps, waste aluminum materials 廢鐵、鋁材	
Used plastic bags, cardboards, packing materials 廢膠袋、紙皮、包裝物	
Tin dross, pins and wires of electronic components 錫渣、電子組件管腳和導線等	
Waste plastics, plastics contained in non-conforming products 廢塑料、不合格品塑料	Processed as re-grind materials. 作二次料處理。
Domestic waste 生活垃圾	Stored by classification, packed using garbage bags and put into garbage cans with covers, sterilised regularly and delivered to the sanitation department. 分類儲存，用袋裝於垃圾桶並加蓋，定期清除消毒，送交環境衛生部門處理。

Waste Gas Management

The Group switched to pipeline transportation to control the spread of exhaust gas, adopted fixed-point unloading to ensure centralised dust control, and started to use water-based working paint, in strict compliance with the *Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution* and other laws and regulations; used technological means to apply strict management and well-targeted treatment of exhaust gas during the gas generation, propagation, collection, etc. stages, so as to reduce the emissions of exhaust gas, dust and other volatile gases in plants, thereby ensuring compliance with the dust and exhaust gas emission requirements specified in the "Limits on Air Pollutant Emissions" of the Guangdong Province and other national and regional standards, and protecting employees' health and the surrounding environment.

無害廢棄物處理

集團根據生產運營中產生的無害廢棄物種類，交由有資質的回收公司處理或者進行二次加工使用，推動資源可持續利用。

產生無害廢棄物 **82,505.14** 噸
合規處置無害廢棄物 **82,004.17** 噸

廢氣管理

集團嚴格遵照《中華人民共和國大氣污染防治法》等法律法規要求，採用管道輸送減少廢氣擴散，定點卸料以集中控制粉塵，工作油漆改用水性漆等方式，並利用科技手段在廢氣產生、傳播、收集等各個階段進行嚴格管理和針對性治理，降低生產車間的廢氣、粉塵和其它揮發性氣體的排放，確保粉塵及廢氣排放均符合廣東省《大氣污染物排放限值》等國家和地區標準，保護員工健康和周邊環境。

Greenhouse Gas Emissions in 2019

2019 年廢氣排放量

Waste Gas Type 廢氣種類	NO _x	SO _x
Emission/Ton 排放量 / 噸	408,537.30	2,032.52

Note: The Group accelerated the phasing out of obsolete production capacity during the year, resulting in a significant decrease in emission data as compared to those of previous years.

註：本年度集團加快淘汰落後產能，故廢氣排放量數據較往年大幅下降。



Employing new technology to reduce exhaust gas pollution 運用新技術降低廢氣污染

The Group developed an environmental protection system for VOC waste gas treatment, which collects exhaust gas in production areas and filters the gas through water spray, demisters, activated carbon absorption, catalytic combustion and plasma photocatalytic oxidation to effectively reduce dust in plants. Exhaust gas concentration in the plants has been lowered to below 0.76mg /m³ as a result.

集團投入建設 VOC 廢氣處理環保系統，對工藝區等生產車間的廢氣集中收集並通過水噴淋、除霧器、活性炭吸附、催化燃燒、等離子光催化氧化方式進行過濾分解，有效改善車間揚塵問題，將車間內廢氣濃度降低至 0.76 mg /m³ 以下。



VOC exhaust treatment and environmental protection system

VOC 廢氣處理環保系統

Noise Control

Pursuant to relevant provisions of the *Emission Standard for Industrial Enterprises Noise at Boundary*, the Group continuously researched into and piloted various noise reduction solutions to reduce noise pollution from the source, reduce noise during the transmission process, and ramped up personal protection for staff to prevent production-related noise pollution from adversely affecting employees' health or the environment.

噪音控制

集團按照《工業企業廠界環境噪音排放標準》相關要求，不斷研究和試點多種降噪方案，從源頭減少噪音，在傳播過程中削弱噪音，同時加強員工個人防護，避免生產過程中的噪音對健康和環境造成傷害。

Control of Noise Sources

噪音源頭控制

- Replacement of dilapidated and noisy equipment.
- Application of cotton insulation in main pipelines of crushed material conveying systems.
- Noise reduction and transformation tests were performed on prototype automatic pipe packing machines and crush rooms - the noise level is reduced by about 20% after the transformation.
- 對噪音大的老舊設備進行更換。
- 為破碎料輸送系統主管道加裝隔音棉。
- 對管件自動包裝機、破碎房進行樣機降噪改造試驗，改造後可降低噪音約 20%。

Transmission Process Control

傳播過程控制

- Reduce the distance of transportation to increase the distance between employees and noise sources.
- Enclose and insulate large areas such as fan rooms and compressor rooms.
- Install noise reduction systems in crushing areas and noise protection devices in punch machines.
- 利用短距離輸送拉遠員工與噪音源距離。
- 對風機房、壓縮機房等噪音大區域圍蔽隔音。
- 設置破碎區輸送降噪系統、衝床設備隔音防護裝置。

Personal Protection Reinforcement

加強個人防護

- Employees working in areas with high noise intensity are provided with earmuffs, earplugs and other labor protection supplies to protect them from noise pollution.
- 在噪音強度大的區域，配備耳罩、耳塞等勞保用品並監督使用，加強員工噪音防護。

Conservation of Resources

The Group continuously pushed forward resource consumption reducing in production processes and in offices, and promoted green production and green office by recycling production water, reducing packaging materials, and saving office consumables, thus minimising the consumption of natural resources involved in business development operations.

Water Conservation

The Group pays due attention to the conservation and protection of water resources. It recycles virtually 100% of production water, and has installed a cooling water tower to offset water evaporated during the water cooling and production process, effectively reducing the amount of water resources consumed; and equipped the production water recycling pool with water purification devices to reduce water consumption, and improve water quality and efficiency at the same time.

Annual water consumption: **4,042,900** tons

Water resources recycled: **3,749,800** tons

Note: The Group accelerated the phasing out of obsolete production capacity during the current year, resulting in a significant decrease in water consumption compared to those of previous years.

註：本年度集團加快淘汰落後產能，故耗水量數據較往年大幅下降。

Minimising the Use of Packaging Materials

The Group reduces the use of packaging materials by using automatic equipment, implementing packaging-free strategies and recycling waste materials. As a result, the lifecycle of materials has increased, and secondary pollution has been avoided with lower resource consumption. In 2019, 7,488 tons of packaging materials were consumed for finished products.

Green Office

The Group has made effective efforts to promote the "green office" campaign, incorporating environmental protection into routine operations in offices. IT systems and electronic display screens are used in routine communications, notification and production lines to make offices "paperless". Refillable printer toners are used, and the use of toner cartridges has been reduced; employees are encouraged to practise double-sided printing and print informal documents on used paper to save office consumables and effectively improve resource efficiency.

節約資源

集團持續推動降低生產和辦公過程中的資源消耗，通過生產用水循環利用、減少包裝材料、節約辦公耗材等方式，推動綠色生產、綠色辦公，降低企業發展對自然資源的消耗。

節約水資源

集團重視水資源的節約與保護，生產用水基本全部實現循環再用，配置冷卻水塔為生產過程中的冷卻用水補充蒸發水分，有效降低對水資源的消耗；對生產循環水池加裝水質淨化處理設備，改善冷卻循環水水質，在提高生產用水質量和利用率的同时減少水資源消耗。

耗水量 **404.29** 萬噸

循環利用水資源 **374.98** 萬噸

減少包裝材料使用

集團通過自動化設備應用、採取免包裝策略及廢料回收利用等手段減少包裝材料使用，延伸物料的生命週期，避免二次環境污染的同時降低資源消耗。2019年製成品所用包裝材料 7,488 噸。

綠色辦公

集團切實推動綠色辦公，將環保理念充分融入日常辦公。在日常溝通、公告通知及生產一線中使用信息化系統及電子顯示屏等手段，推動無紙化辦公。打印機採用可多次充裝碳粉，減少碳粉盒的使用數量，倡導紙張雙面打印、廢紙張打印非正式文件等節約辦公耗材行為，有效提升資源利用效率。

Building Green Cities

Leveraging its professional strengths in environmental protection, the Group has supported sustainable construction and development of cities, and promoted environmental protection across different sectors of society through concrete actions, boosting sustainable development of society and the environment.

Development of the Environmental Protection Industry

The Group has actively supported and effectively enforced national environmental protection policies, vigorously developed the environmental protection industry focusing on solid hazardous waste treatment, service project design, environmental testing and water supplies as the main development directions, and provided professional services covering the entire project construction process such as feasibility study reports, environmental impact assessment, environmental protection design, construction, pre-launch commissioning, environmental monitoring and supervision, and clean production audit; established a post-doctoral research station, and received hundreds of patents on core technologies; got actively involved in the formulation of a number of provincial professional standards aimed at reducing waste pollution and creating a highly livable ecological environment.



China Lesso won the **"2018 Environmental Innovation Enterprise" award** in recognition for its 100% lead-free PVC pipeline products, which are regarded as a remarkable innovation and contribution to market development

中國聯塑憑藉 PVC 管道全面無鉛化的行業創新和貢獻，榮獲「2018 年度環保創新企業」獎

Environmental Protection Engineering

The environmental protection engineering design institute affiliated to the Group has been officially qualified as a grade-A environmental engineering design unit and grade-B public utility design unit by the Ministry of Housing and Urban-Rural Development; carried out enterprise - university - research institute joint development initiatives leveraging the unique competitive advantages of Lesso pipeline products, and established an exceptional management team and professional teams, providing environmental engineering services covering many industries ranging from environmental protection design, municipal sewage and industrial wastewater treatment, black and odorous water treatment, comprehensive rural environment treatment, sponge city creation, urban underground pipeline networks, soil remediation, urban water supply and drainage engineering to marine environmental protection.

悉心打造綠色城市

集團充分發揮在環保方面的專業優勢，服務城市可持續建設和發展，用實際行動向社會各界傳遞環保理念，助力社會與環境的可持續發展。

發展環保產業

集團積極響應和落實國家環保政策，以固危廢處理、設計服務工程、環境檢測、水務為發展方向大力發展環保產業，提供可行性研究報告、環境影響評價、環保設計、施工、調試運營、環境監測、環境監理、清潔生產審核等項目建設全流程的專業服務；成立博士後科研工作站，獲得上百項專利及核心技術；參與多項省級專業標準編寫，幫助降低各類廢棄物污染，營造宜居生態環境。

環保工程

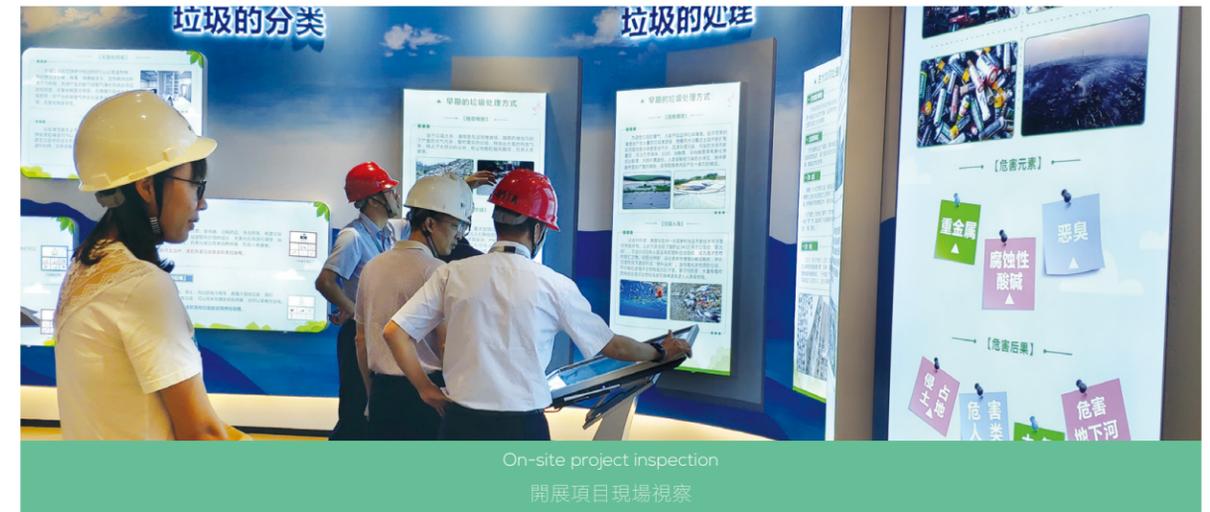
集團旗下環保工程設計院擁有由國家建設部頒發的環境工程設計甲級、市政行業設計乙級資質，結合聯塑管道產品天然優勢，進行產學研聯合發展，打造出色的管理團隊和專業人才隊伍，提供涵蓋環保設計、市政污水及工業廢水治理工程、黑臭水體治理、農村環境綜合治理、海綿城市創建、城市地下管廊、土壤修復、城市給水排水工程、海洋環保等多個領域的環保工程服務，打造生態和諧的人居環境。

Environmental Impact Assessment

Officially certified by the Ministry of Environmental Protection as a grade-B environmental impact assessment unit, the Group's environmental engineering design institute provides planning project and construction project environmental impact assessment report compilation services and construction completion acceptance check-related services for light industry companies and businesses specialising in textile and chemical fiber, chemical and petrochemical medicine, metallurgical machinery, building materials, thermal power, agriculture, forestry, water conservancy, transportation, etc. helping them accurately identify and assess the environmental impacts of proposed projects.

環境影響評價

集團旗下環保工程設計院擁有國家環境保護部頒發的環境影響評價乙級證書，為輕工紡織化纖、化工石化醫藥、冶金機電、建材火電、農林水利、交通運輸等行業類別提供規劃環境影響評價、建設項目環境影響評價報告書及報告表的編制，建設項目竣工驗收等服務，準確識別和評估環境影響，服務行業綠色發展。



On-site project inspection
開展項目現場視察

Environmental Monitoring

Guangzhou Huaqing Environmental Monitoring Co., Ltd., an affiliate of the Group, was one of the first third-party testing agencies to receive the CMA qualification certificate in the environmental monitoring service market, and is capable of monitoring more than 1,000 environmental indicators divided into 15 general categories, including water and wastewater, air and waste gas, noise and vibration, soil and sediment, marine sediment, solid waste, ionizing radiation and electromagnetic radiation, securing economic development amid environmental changes.

環境監測

集團旗下廣州華清環境監測有限公司是環境監測行業中首批獲得 CMA 資質證書的第三方檢測機構，可對水和廢水、空氣和廢氣、噪聲和振動、土壤和沉積物、海洋沉積物、固體廢物、電離輻射和電磁輻射等 15 大類、千余項環境指標開展監測，為環境變化和經濟發展保駕護航。



An environmental monitoring laboratory
環境監測實驗室

Environmental Consulting Services

The Group's environmental engineering design institute provides a wide variety of professional services ranging from project site compliance and pollution control planning, pollution permit application and development of regional environmental solutions to environmental consultancy services and environmental training during project development and operation, and environmental protection supervision and administration services during and after administrative approval of construction projects. It also offers one-stop environmental advisory services to government agencies at various levels and private and public enterprises alike.

Treatment of Hazardous Waste

The Group has set up hazardous waste disposal facilities in Yunfu (Guangdong), Hainan, Jiangsu and other parts of China. Its hazardous waste disposal centre in Hainan is the only general hazardous waste disposal centre approved by the state in the Province. The centre is equipped with temporary hazardous waste storage facilities, physical and chemical treatment workshops, and wastewater treatment workshops, with a primary waste processing capacity of 20,000 tons per year.

CASE 案例

Joint development of Lulian Environmental Technology Project to promote the green circular economy

共創綠聯環境科技項目，推進綠色循環經濟發展

The ceremony for the collective inauguration of major projects in the Hengshanqiao Intelligent Power Equipment Industrial Park (Changzhou, Jiangsu) was held in May 2019, marking the formal launch of Jiangsu Lulian Environmental Technology Co., Ltd. (hereinafter referred to as "Lulian Environmental"). Lulian Environmental, an affiliate of China Lesso, specialises in harmless treatment and recycling of solid waste applying the internationally leading pyrolysis carbonization technology, through co-processing of sludge and industrial solid waste with low and medium value clean energy. Once it reaches the target production capacity, the project will process 300,000 tons of solid waste every year, offering an effective solution to the handling of public utility sludge and general industrial solid waste in the region.

環保管家

集團旗下環保工程設計院從提供項目選址合規性及污染治理規劃、排污許可證辦量、區域環保解決方案，到發展運營過程中環境顧問式服務和環保培訓、建設項目環境保護事中事後監督管理等服務，為各級政府部門、企事業單位等提供專業、優質的一站式環境顧問服務。

危險廢棄物處置

集團在廣東雲浮、海南、江蘇等地積極發展危險廢棄物處置項目，下屬海南省危險廢棄物處置中心是海南省獲國家批准建設的唯一一家綜合危險廢棄物處置中心，擁有危險廢物暫存庫、物化處理車間、廢水處理車間等生產設施，原生廢物總處理規模達 20,000 噸/年。

2019 年 5 月，江蘇常州橫山橋智能電力裝備產業園重點項目集中開工暨江蘇綠聯環境科技有限公司（以下簡稱「綠聯環境」）奠基儀式隆重舉行。中國聯塑旗下的綠聯環境項目採用國際領先的熱解碳化技術，利用污泥與工業固廢中低值清潔能源協同處置，實現固廢的無害化、資源化。項目建成達產後，將達到年 30 萬噸綜合利用能力，為區域內市政污泥及一般工業固廢提供處置途徑。



The inauguration ceremony
奠基儀式現場

Promoting the Environmental Protection Philosophy

The creation of a "green ecosystem" is dependent on the participation of all members of the society. The Group has promoted the "green development" philosophy toward the public, and organised environmental charity events to advocate green social development, working together with others to build a green ecosystem.

CASE 案例

Lesso lead-free pipelines make life healthier 拒絕「鉛」絆，聯塑無鉛管掀起健康新浪潮



A poster of the campaign
活動海報

傳遞環保理念

建設綠色生態有賴全社會共同參與。集團在公眾和社會中積極倡導綠色理念，開展環保公益活動，推動社會綠色發展，攜手社會各界共築綠色生態圈。

In line with its commitment to making our society more eco-friendly and making home healthier, China Lesso took the lead in releasing the first lead-free PVC pipes, fittings and profile products, and kicked off a publicity campaign dubbed "A Healthy Life Free of Lead" on video-sharing social network Tiktok to raise the public's awareness of "lead-free pipelines", and disseminate environmental protection knowledge among young consumers, calling on all the people to say no to lead-containing PVC products to protect their health.

中國聯塑以社會環保、家庭健康的未來為己任，在國內率先實現 PVC 管材管件及型材產品全面無鉛化，並攜手抖音發起「抖出健康無鉛絆」挑戰賽，以音樂、「無鉛舞」以及多種多樣的無鉛管創意，進一步喚醒大眾對「無鉛管」的關注和認知，將更多的環保公益意識傳遞給更多的年輕消費群體，呼籲全民一起拒絕鉛帶來的危害，共同推動全行業 PVC 製品無鉛化。



Enterprises and society have always been closely related, and mutually dependent. Guiding business development with the "people first" principle, the Group is fully committed to supporting and giving back to society, providing its employees with optimal supports, and to making meaningful contributions to the industry and local communications. The ultimate goal is to create a harmonious and enjoyable social ecosystem.

企業與社會始終息息相關、共生共榮。集團在發展過程中堅持以人為本的理念，連接社會、服務社會、回饋社會，不斷發揮自身優勢，為員工提供更完善的保障，為行業作出更有為的貢獻，為社區奉獻更多的愛心，努力構築和諧美好的社會生態。

- Total number of staff training hours: 117,039
- Total number of suppliers: 3,644
- Local sourcing rate: 94%
- Investment in charitable events: RMB 7,481,500

- 員工培訓總時間 117,039 小時
- 供應商數量 3,644 家
- 本地化採購率 94%
- 公益投入 748.15 萬元

HARMONIOUS RELATIONSHIPS THAT CONNECT US WITH THE SOCIETY

聯接社會
塑造和諧

Improving Employee Well-being

Upholding the "people first" principle, we safeguard the basic rights and interests of employees, and pay due attention to their career development. We established a staff growth platform, and fostered their physical and mental well-being to create a strong sense of gain and happiness, with the aim of delivering growth for both employees and the Group.

Safeguarding the Rights and Interests of Employees

The Group has introduced the *Guidelines on Labor Relations Management* in strict compliance with the *Labor Law of the People's Republic of China* and other relevant laws and regulations, safeguarded the legitimate rights and interests of employees, and listened to their voice to create a harmonious employer-employee relationship.

Diversified HR Structure

Human resources are critical to business development. The Group has attracted talent from various sources to build multi-layered, high-quality professional teams, bringing diverse human resources together to build up momentum for future success.

凝心增進員工福祉

集團秉持以人為本的理念，著力保障員工基本權益，關心員工職業發展，為員工搭建成長平台，守護員工身心健康，不斷提升員工獲得感、幸福感，助力員工與企業共同成長。

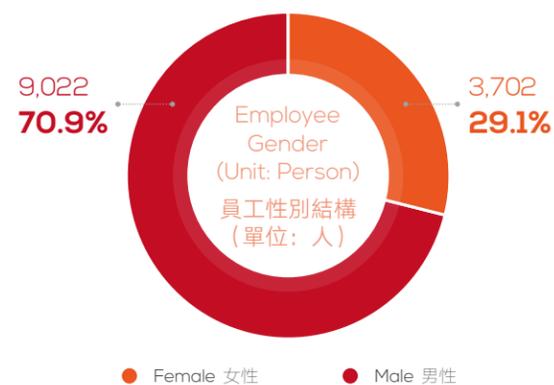
保護員工權益

集團嚴格遵守《中華人民共和國勞動法》等法律法規，制定《勞動關係管理指引》，持續維護員工各項合法權益，用心傾聽員工聲音，推動建立和諧的企業員工關係。

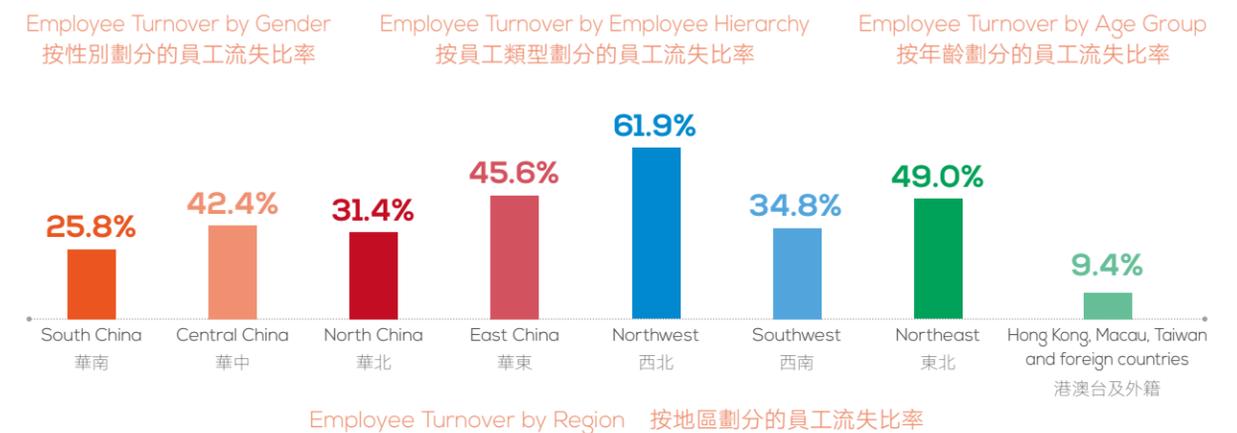
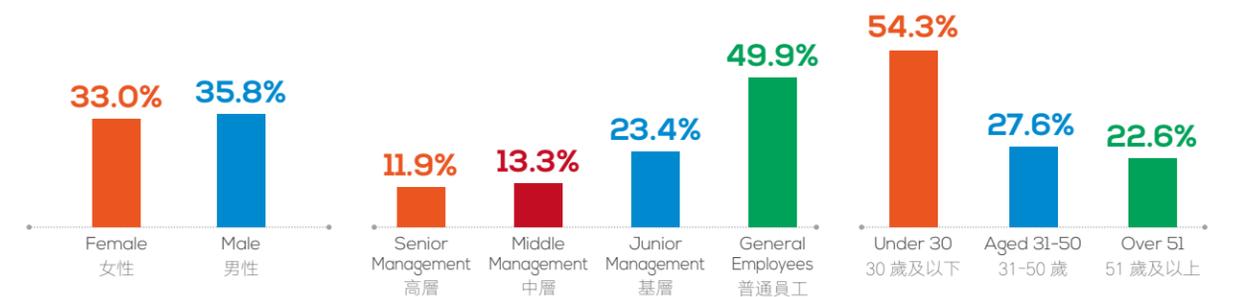
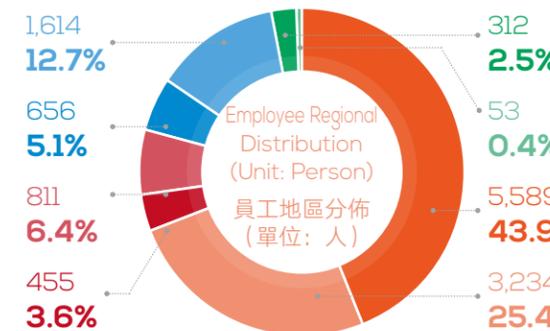
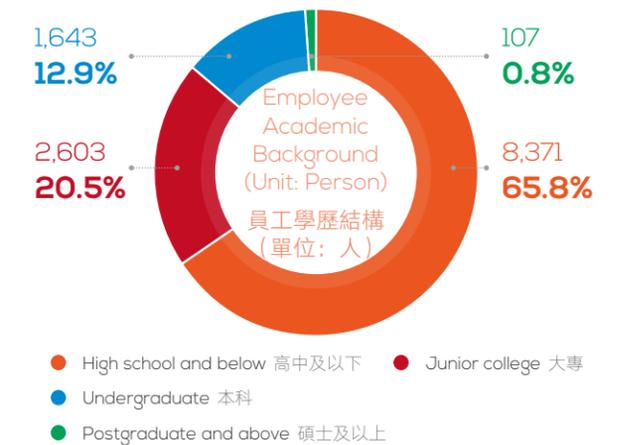
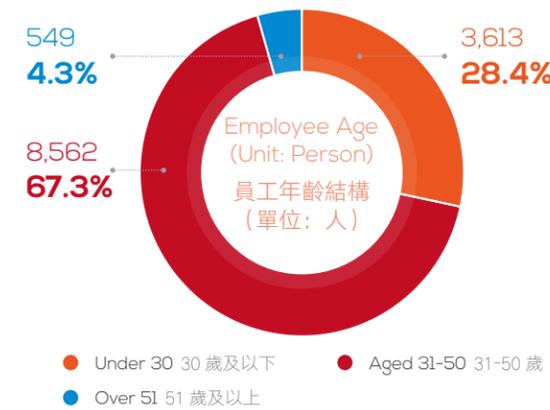
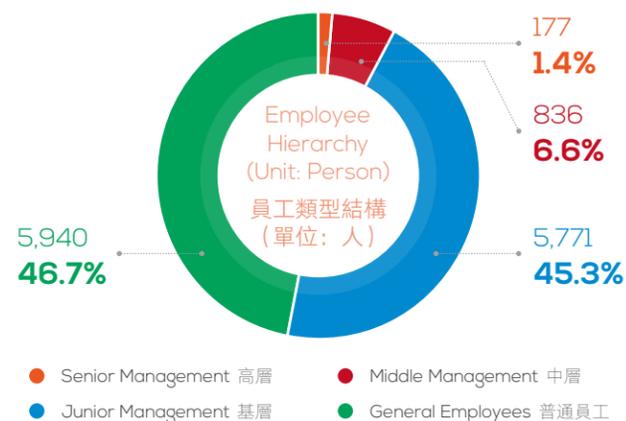
多元人才結構

人才是企業發展的根本保障。集團積極吸納各方人才，大力培養多層次、高質量的人才隊伍，匯聚多元人才，凝聚發展力量。

Total Headcount: **12,724** Person



員工總數: **12,724** 人



Note: The employee turnover ratio is calculated as: number of employees belonging to the category left / total number of employees in the category. 註：員工流失比率計算方式為：該類別雇員離職人數 / 該類別雇員總數。

Upholding Employment Equality

Strictly abiding by relevant policies and regulations, the Group has always advocated equal employment focusing on impartiality and openness, and enter into labor contracts with employees based on the principles of equality, voluntariness and consensus. We resolutely put an end to any discrimination against employees due to factors such as age, gender, marital status, disability, ethnicity, race and religious beliefs, oppose any form of child labor and forced labor and strive to create a fair and lawful working environment for employees.

100% employment contracts signed

Staff Remuneration and Benefits

The Group has formulated the *Remuneration Management Regulations of China Lesso*, in which it rationally states the salary level and a dynamic incentive mechanism to fully motivate employees. We have rigorously enforced national and local social security mechanisms in strict compliance with various laws, regulations and employment policies, paid contributions to social insurance (e.g. medical care, pension, unemployment, work injury and maternity insurance) and supplementary medical insurance for employees, and established multi-level, three-dimensional and comprehensive insurance institutional systems to effectively protect the rights and interests of employees. We have kept abreast of the latest national and local policies on human resources, and sought to secure welfare benefits offered by the national and local governments for the employees - we assisted more than 30 staff members in successfully applying for the "Shunde Talent Card" over the past three years.

100% social insurance coverage

Democratic Communication and Feedback

The Group has continuously improved the mechanism of equal and open dialogue and broadens the channels for employees to participate in democratic management. By means of employee satisfaction surveys, democratic meetings and staff congress, employees are encouraged to make their voice heard, and participate in corporate governance in an orderly fashion, with efforts made to ensure that employees exercise their rights to know, participate, vote and supervise.

堅持平等僱傭

集團嚴格遵循法規政策要求，始終堅持公平、公開的平等僱傭原則，在平等自願、協商一致的基礎上，與員工簽訂勞動合同，堅決杜絕因年齡、性別、婚姻狀況、傷殘、民族、種族、宗教等因素歧視員工的現象產生，反對以任何形式僱用童工和強迫勞動，營造公平、合法的僱傭環境。

勞動合同簽訂率 100%

員工薪酬福利

集團遵守各項法律法規與勞動政策，嚴格執行國家及地方社會保障機制，為員工購買醫療、養老、失業、工傷、生育等社會保險和補充醫療保險，建立多層次、立體化、全方位的保險制度體系，切實維護員工權益；制定《中國聯塑薪酬管理制度》，合理制定薪酬水平和動態激勵機制，充分調動員工的積極性，實現公司與員工利益共享；及時跟進國家地方人才政策，積極為員工爭取國家與地區的福利保障，近三年累計協助超過 30 名員工獲得順德人才卡。

社會保險覆蓋率 100%

民主溝通反饋

集團不斷完善平等、公開的對話機制，拓寬員工參與民主管理的渠道，通過員工滿意度調查、民主生活會、員工代表大會等方式傾聽員工的聲音，引導員工有序參與公司治理，切實保障員工的知情權、參與權、表決權和監督權。

Building a Career Development Platform for Employees

The Group continued to provide highly diversified training to create a multi-faceted growth platform to meet the career development and personal growth needs of employees, helping them fulfill their full potential and grow together with the Company.

Diversified Training for Employees

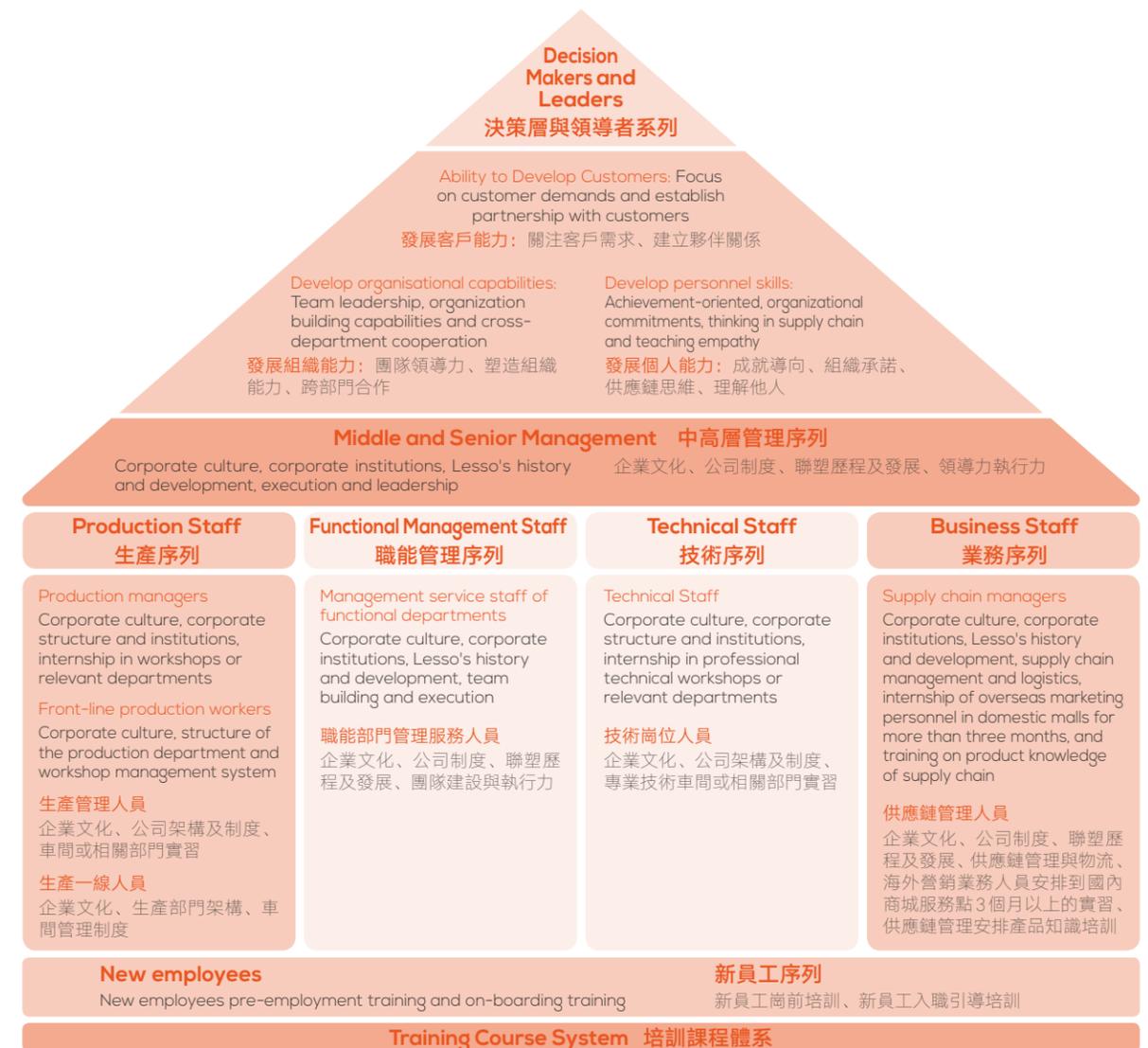
The Group has established and continuously improved the employee training system, continuously improved the quality of internal trainers, and launched a broad range of training programs allowing staff members to build on their value proposition based on the actual needs of employees based in China and overseas, and improved their professional expertise and qualifications, helping them achieve all-round career development.

搭建員工成長平台

集團持續開展多樣化培訓，打造多元化成長平台，滿足員工職業發展和個人成長需求，在與企業共成長的同時實現個人價值。

多樣化員工培訓

集團建立完善員工培訓體系，以聯盟學院為教育陣地，不斷提高內訓師水平，推出多項培訓，滿足國內外員工多樣化的需求，提升員工職業技能和素養，助力員工全方位發展。



Total number of staff training hours: **117,039**

員工培訓總時間 **117,039** 小時



Employee Training by Gender
按性別劃分的員工培訓人次

Employee Training by Type
按類型劃分的員工培訓人次

CASE 案例

Lesso College provides training for internal lecturers
聯塑學院開展內訓師提升培訓

In September 2019, Lesso College kicked off a week-long "Flipped Course - Learning Practical Skills through Actions", attracting more than 30 in-house trainers from the production centre, customer service centre, department of quality management and the Research Institute. Instead of following the conventional training model where "the trainers teach and the trainees listen", the course is divided into two parts: "hands-on learning" and a "Q&A - feedback" session. The immersive teaching approach allows internal trainers to better understand their roles and responsibilities, keep track of the design and applications of action learning, efficiently and effectively present the value of the course, and get new inspirations and rethink their teaching methods, which in turn positively affects teaching quality.

2019年9月，聯塑學院開展為期一周的「師者匠心工程培訓項目」之《翻轉課程 - 行動學習實戰》，來自生產製造中心、客戶服務中心、品管部、研究院等多個部門的30多名內訓師參加培訓。本次培訓跳出了以往「老師講學員聽」的傳統模式，分為「行動學習實戰」和「提問—傾聽—反饋」兩個部分，浸入式的教學讓內訓師了解其角色與職責，掌握行動學習設計應用，幫助快速有效呈現課堂價值，讓內訓師對教學產生新的啟發和思考，進一步提升教學水平。



Internal trainers working on a new course
內訓師正在開發新課程

Special Training Programs

Lesso Evening Classes: Lesso College launched evening classes covering 9 major issues confronting the management. The evening courses enable employees to strike a balance between work and in-service training, as well as effectively improving their leadership, execution and communication skills.



Lesso Evening Classes

聯塑夜校

特色課程

聯塑夜校: 聯塑學院緊扣管理層困惑問題難題進行選題，開設9門夜校課程，在通過夜校形式解決了員工的工學矛盾的同時，有效提升學員領導力、執行力和溝通力。

"7 o'clock English Class": Lesso College hired staff members who had studied abroad as lecturers to teach their colleagues everyday English required for serving customers. "7 o'clock English Class" has contributed positive to the Group's globalisation strategy.

「7點英語」: 針對接待客戶和日常工作中必備的英語技能，聯塑學院聘請海歸員工擔任講師，持續開展「7點英語」培訓，服務集團全球化發展。



Lecturers and trainees in "7 o'clock English Class"

「7點英語」講師與學員

Online training: Lesso Classroom for Clients offer video lectures covering 86 subject matters including product knowledge and managerial skills; in partnership with Yingsheng University, Lesso School provides staff members with online learning resources, empowering the Group's internal training platform.

線上學堂: 聯塑客戶學堂實現86門課程視頻共享，課程涵蓋產品知識、管理知識等領域；聯塑學院與英盛大學開展合作，為員工提供線上學習資源，賦能集團培訓平台。

CASE 案例

Core staff members from Indonesia trained at the headquarters
 印度尼西亞骨幹人員赴總部培訓

A number of core employees from the Group's production base in Indonesia attended a two-month professional training course in August 2019, and on-the-job practical training was also offered. The professional course covers topics such as product raw materials, process procedures, quality testing, standard certification, warehousing and logistics, while the on-the-job practical training sought to develop well-targeted post-specific internship plans based on the trainees functions, with supervision provided by the lecturers. The training effectively improved the professional skills of the trainees and their ability to solve production-related problems, helping them apply the expertise and skills learned in actual business operations. The trainees will work together with the management to effectively develop the Indonesia production base, and build on Lesso's brand awareness among the local public.

2019年8月，集團在印度尼西亞生產基地的多名骨幹員工來到總部進行為期兩個月的專業課程學習和在崗實習。專業課程學習涵蓋產品原材料、工藝工序、質量檢測、標準認證、倉儲物流等方面，在崗實習則根據學員的工作職能，制定針對性的在崗實習計劃，並由導師帶領指導。本次培訓有效地提高了學員專業技術水平及處理生產問題的能力，幫助學員將所學知識和技能運用到實際工作中，共同建設好印度尼西亞生產基地，提升聯塑品牌在當地影響力。



Core staff members from Indonesia attending a training course at the headquarters
 赴總部培訓的印度尼西亞骨幹員工

HONOURS 榮譽

Two employees were officially selected as "High-tech Professionals with Outstanding Contributions in Foshan"

2名員工獲評「佛山市突出貢獻高技能人才」

Multi-channel Employee Development

Focusing on unblocking career development channels for staff members, the Group has continuously improved the internal professional development system, and set well-defined career development objectives and paths to offer employees excellent prospects for promotion and broaden the scope for personal development. We implement closed-loop performance management to help employees improve their capabilities and efficiency, unlock their full potential, and help them improve their value proposition at work, aligning their personal aspirations with the Group's strategic goals.

多渠道員工發展

集團著力暢通員工發展渠道，不斷完善職業發展體系，明確員工職業發展目標和路徑，擴大人才晉升空間和員工發展空間；實行績效閉環管理，幫助員工提升能力和效率，激發員工潛力，幫助員工提升崗位價值，與企業同頻共振、共同發展。

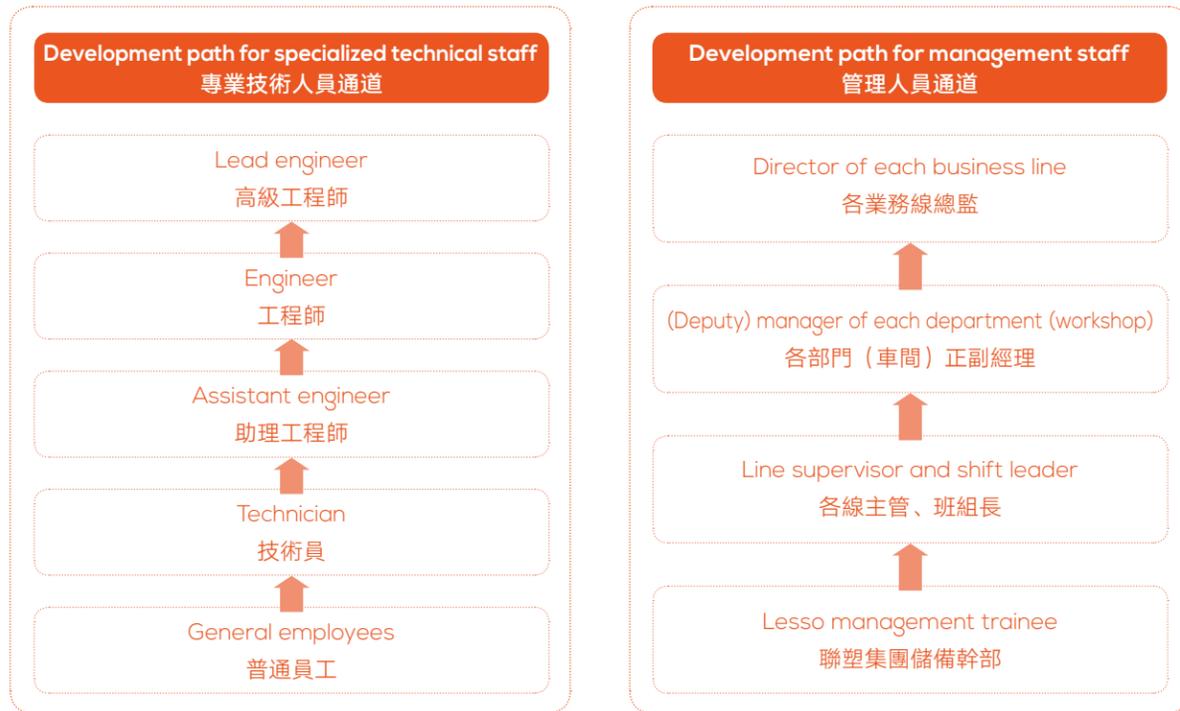
Staff Training Schemes

制定員工培養計劃



Streamlined career development paths

暢通職業發展通道



CASE 案例 Sharpening skills through contests 以賽代練 技高一籌

The Group held a "Skills Contest" in 2019, which was warmly received across the departments and subsidiaries, with thousands of employees attended the event. The contest created a favourable competition and learning atmosphere at the Company. The participants demonstrated remarkable enterprising spirit, and showcased their ingenious designs and superb skills, inspiring their colleagues to improve existing practices and honing their skills at the same time. The annual contest not only was a test on staff members' professional competence and achievements, and inspired them to continuously improved their professional expertise in pursuit of excellence, providing customers with improved products and services.

2019年，集團舉辦技能比武大賽，各部門和子公司積極響應，各崗位員工踴躍參與，形成了良好的競技和學習氛圍。選手在大賽中發揚勇爭第一的精神，發揮出別具匠心的巧妙心思和高超的技巧，在比賽中精進技能的同時也為其它員工提供汲取優秀經驗的機會。集團一年一度的技能比武大賽不僅檢驗了員工工作能力和成果，也在過程中提升員工精益求精的工作意識，提高實際工作技能，為客戶提供更優質的產品和服務。



The annual "Skills Contest" 技能比武大賽現場

Building a Strong Sense of Happiness among Employees

The Group ensures the safety and health of employees by providing staff training and physical examination services and a diverse range of leisure activities. Special support is offered to employees in need to build a favourable and enjoyable work environment.

提升員工幸福感

集團通過課程培訓、員工體檢等方式保障員工的安全與健康，為員工提供豐富多彩的業餘活動，熱心幫助有需要的員工，努力構建幸福工作、快樂生活的良好氛圍。

Occupational Health and Safety

Placing due emphasis on the health of employees, the Group further developed the work safety management system and policies in strict compliance with occupational health-related laws and regulations, held safety and health related training courses to improve staff's awareness of the importance of occupational safety and related skills, provided employees with labour protection supplies and fitness facilities to protect the physical well-being of staff members. No major accidents or cases of occupational diseases occurred in the Group in 2019.

職業健康安全

集團重視員工健康，嚴格遵守職業健康法律法規，不斷完善安全管理體系與制度，開展安全與健康相關課程培訓，提高員工的職業安全防護意識和技能，為員工提供勞保用品及健身設施，保障員工身體健康。2019年集團無發生重大以上事故和職業病。

Work Injury and Lost Days due to Work Injury	集團工傷及損失工作日數	2019
Lost days due to work injury (working day)	因工作關係損失工作日數 / 工作日	3,884
Number work-related fatalities (person)	因工作關係死亡人數 / 人	0
Rate of work-related fatalities (%)	因工作關係死亡比率 / %	0
Frequency rate of disabling injury per 1,000 people (‰)	千人工傷意外率 / ‰	8.79

Occupational Disease Prevention

The Group arranges medical checkups for prospective, existing and outgoing employees based on the exposure to health hazards depending on the specific positions held by them. In 2019, medical examinations were provided for 1,484 staff members working in special positions to investigate into and eliminate hidden risks. Every year, a professional third-party agency is engaged to conduct on-site occupational hazard tests, examine the different types of occupational hazards in each position, analyse occupational health hazards, and implement well-targeted countermeasures.

職業病防治

集團根據接觸職位危害崗位的差異為員工安排入職體檢、定期體檢及離職體檢，2019年對特殊工種崗位進行職業健康體檢共計1,484人次，及時排查員工健康隱患；每年聘請專業的第三方機構進行作業現場職業危害檢測，排查各崗位的職業危害因素類型，分析職業病危害狀況，開展針對性治理。

Personal Protection

The Group provides employees with personal protection products offerings different types and levels of protection, e.g. earplugs and earmuffs, dust or gas masks, chemical overalls, anti-static shoes and electrician shoes, based on the actual needs of different positions. The use of such items is subject to rigorous supervision and control.

Health and Fitness Facilities

The Group installed "low-noise centrifugal air cabinets" to reduce the temperature of air supplied and at manual workstations in plants, effectively improving the working environment for employees. In addition, fitness facilities have been made available in each subsidiary to promote the physical well-being among staff members.

Staff Care

The Group has consistently broadened living spaces for employees, and improved the quality of life for them by organising various forms of entertainment and sports events to celebrate Womens' Day (March 8), Youth Day (May 4), corporate anniversaries and the Mid-Autumn Festival. Donations and special supports are given to employees with special difficulties to create a positive and healthy atmosphere and moral attitude, building a strong sense of happiness and belonging among staff members.

Broadening Living Spaces

Livings for employees	員工生活空間	2019
No. of Employees Living in Company Accommodation (Person)	入住員工宿舍人數 / 人	6,516
Green space (m ²)	綠化面積 / m ²	377,539.24
Office Floor Area (m ²)	辦公區域面積 / m ²	98,969.65
Cafeteria Floor Area (m ²)	餐廳面積 / m ²	121,614.70
Floor Area of Company Accommodation (m ²)	宿舍占地面積 / m ²	154,198.00
Public Spaces (m ²)	公共區域面積 / m ²	975,837.81

個人防護

集團按照不同崗位需求，為員工提供不同類型和防護級數的防護用品，包括耳塞耳罩、防塵或防毒口罩、化工工作服、防靜電鞋、電工鞋等，並嚴格監督使用到位。

健康設施

集團選用「低噪聲離心風機櫃」對車間進行送風降溫處理措施，降低人為操作的生產工位溫度，改善員工的工作環境，並在每個子公司設置健身器材，為員工身體健康提供硬件保障。

關心員工生活

集團不斷為員工創造更大生活空間，提高員工生活質量，在節慶日開展三八節活動、五四青年節活動、廠慶系列活動，中秋晚會等多種形式的員工文化體育活動，為困難員工發起捐助和提供幫扶，營造積極向上的工作氛圍和生活態度，提升員工幸福感和歸屬感。

拓寬生活空間

Diverse Employee Activities



Lesso employees participate in "Shunde Charity Campaign - '3861' Hike for Charity" 集團員工參與「愛順德·益起來——‘3861’公益徒步」活動



"Readers Month" at the headquarters 集團總部舉辦讀書月系列活動



The Group gave special gifts on a traditional festival to employees with special difficulties 集團在節日組織開展困難員工慰問

多彩員工活動



March 8 Women's Day events held by Lesso's headquarters and subsidiaries 集團總部及各子公司開展「三八」婦女節系列活動



Plant sports meeting celebrating the 33rd anniversary of China Lesso 集團舉辦三十三周年廠運會



Outdoor team-building events held by Lesso's headquarters and subsidiaries 集團總部及各子公司持續開展員工戶外拓展活動

A Champion of Win-win Partnership

Were it not for the concerted efforts made by its partners, the Group would not have achieved the impressive progress in business development. While continuously improving supply chain management, we cemented partnerships higher education institutions, sought cooperation opportunities on an extensive scale, and actively promoted the development of the industry as a whole to create a favourable environment for win-win development for all parties involved.

Creating a Responsible Supply Chain

The Group has tightened up and improved supply chain management and related services; and assisted suppliers and distributors in various aspects of production and business operations to promote IT applications throughout supply chains and improve the capabilities of relevant entities in fulfilling their responsibilities, building on the overall competitiveness amid mutual development of the Group and its suppliers and distributors.

Total Number of Suppliers: **3,644**

A Breakdown of Suppliers	供應商分佈	2019/ 個
South China	華南	1,694
Central China	華中	507
North China	華北	180
East China	華東	787
Northwest	西北	169
Southwest	西南	226
Northeast	東北	75
Hong Kong, Macau, Taiwan and foreign countries	港澳台及外國	6

誠心踐行 合作共贏

集團的發展離不開各方通力合作。集團在不斷探索和改善供應鏈管理的同時，加強與高等院校合作，廣泛尋求合作機會，積極推動行業發展，促成多方共贏局面。

打造責任供應鏈

集團不斷加強和改善對供應鏈的管理和服務；為供應商和經銷商提供生產經營各方面協助，以全面提高供應鏈信息化水平和履責能力，實現集團與供應商、經銷商攜手發展，共同提升責任競爭力。

供應商總數: **3,644** 個

Local sourcing rate	本地化採購率	94%
Ratio of suppliers selected based on the ISO 9000 Quality Standards to the total number of suppliers	用質量標準 (ISO 9000 質量標準) 篩選的供應商比例	100%
Ratio of suppliers selected based on the ISO 14000 Environmental Standards to the total number of suppliers	用環境標準 (ISO 14000 環境標準) 篩選的供應商比例	100%
Ratio of suppliers selected based on the ISO 18000 Occupational Health Standards to the total number of suppliers	用職業健康安全標準 (ISO 18000 職業健康安全標準) 篩選的供應商比例	100%

Note: Since 2019 the calculation method of the localized procurement rate has been changed to the ratio of the company's purchases in the country where its production and operation are located to the total purchases; the scope of statistics excludes overseas affiliates.

註: 自 2019 年起, 本地化採購率的計算方式更改為公司在其生產經營所在國家的採購額佔採購總額的比率; 統計範圍不含海外附屬公司。

Strengthening Supply Chain Management

The Group has formulated the *Supplier Management Measures* to provide systematic management and professional support, ensuring compliance with supplier selection criteria and supplier-related regulations; established a points-based distributors management model to incentivise distributors to improve the standard and quality of their management operations and services, and build a highly effective supply-chain ecosystem that is open and inclusive, dynamic and impartial, developed based on the principle of "survival of the fittest".

加強供應鏈管理

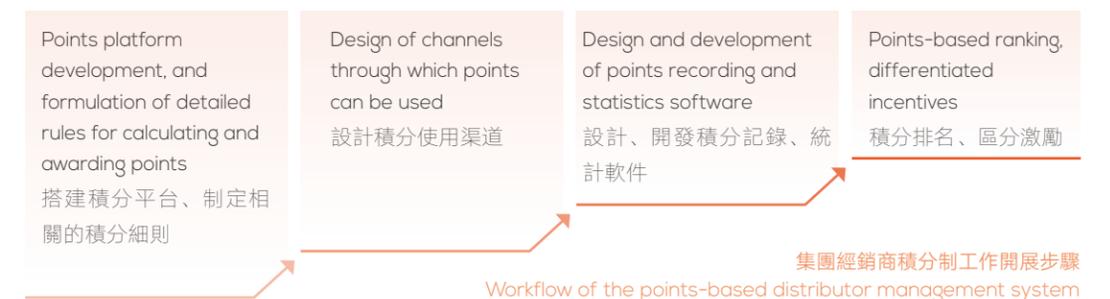
集團制定《供應商管理辦法》，以體系化管理和專業化支持，確保供應商符合准入資質及合規經營；建立經銷商積分管理模式，在激勵經銷商提升其管理水平和服務質量的同時，構建開放包容、充滿活力、公平競爭、優勝劣態的良好供應鏈生態。



Points-based distributor management 經銷商積分制管理

The Group introduced the points-based management system for Group-level suppliers to positively incentivize its distributors, taking the actual circumstances into account, with a view to further strengthening distributor management and services, and closely integrating production and sales operations. Designed to align distributors' business priorities with the Group's sales strategy, the new system conduces to synergistic development between the Group and the distributors, as well as to quantitative assessment of the distributors' practices by the Group, thereby ensuring win-win and stable development for both sides.

為了進一步加強和改善集團對經銷商和管理和服務，提升生產與銷售之間的緊密度，集團結合自身實際，開展集團經銷商積分制管理，正面激勵經銷商。經銷商積分制管理在促使經銷商的經營方向與集團銷售策略保持一致，確保雙方協同發展的同時，有助於集團量化評價經銷商的經營行為，進一步調動經銷商積極性，實現雙方合作共贏、穩定發展。



Building Stronger Ability to Fulfill Responsibilities along Supply Chains

The Group has established close ties with up- and down-stream businesses across the supply chain to help suppliers improve production processes and grow together. Furthermore, we provides distributors with business, legal and IT supports, and continuously developed the Lesso Classroom for Clients to provide improved theoretical and practical training, helping them improve service quality and create a sustainable business ecosystem.

提升供應鏈履責能力

集團與上下游供應鏈建立緊密聯繫，幫助供應商改進工藝，共同成長。同時，集團為經銷商提供商務、法律、信息化等多方位的支持，並持續建設聯塑客戶學堂，加強知識、技術等各方面培訓，幫助經銷商提升服務水平，共建可持續發展生態鏈。

Legal support 法律支持

Our legal, business service and anti-counterfeiting teams have established effective long-term communication mechanisms to understand distributors' business practices in real time. Feedback issued by the business service and anti-counterfeiting teams is analysed, and advice and suggestions are then put forward accordingly.

集團法律、商務及打假部門建立長期有效的溝通機制，及時了解經銷商經營行為，對商務部門及打假部門反饋的信息進行分析反饋，提出處理建議。

IT support 信息化支持

The Group has developed online platforms, such as dealers' online ordering systems, internal communication systems, and online shopping mall "LS DiDi" for distributors to improve the efficiency of the order placement process and communications between them and the Group.

集團開發經銷商線上下單辦公系統、內部溝通系統及網上商城領尚滴滴等線上平台，提升經銷商下單效率以及與集團的溝通效率。

Business support 商務支持

The Group assigns business support teams to work in regional markets to maintain and manage relationships with local distributors, and provide them with sales, public relations and negotiation-related supports to safeguard their rights and interests.

集團選派商務團隊長期駐點區域，對各區域市場經銷商進行維護管理並提供銷售、公關、談判等支持，保護經銷商權益。

Training support 培訓支持

We continued to develop the Lesso Classroom for Clients, and added new training contents in partnership with Yingsheng Learners Platform to provide distributors with a diverse range of training courses on products, sales, service processes and Lesso's corporate culture.

集團持續建設完善聯塑客戶學堂，並與英盛網學習平台合作豐富培訓內容，為經銷商提供產品和銷售知識、服務流程及聯塑文化等各類培訓。

CASE 案例

2019 Lesso Distributors Conference 聯塑 2019 年經銷商大會

In January 2019, Lesso distributors across China attended the annual distributors conference at the Group's headquarters, with the main theme "Enterprising Innovation, Management Optimisation and Shared Development". On the basis of summarising experiences gained and achievements made in the previous year, the Group put forward requirements for distributors in terms of setting reasonable business targets and ensuring regulatory compliance. It also shared insights on the latest market trends and information about new Lesso products, elaborating on distributor support plans to build a better future through collaboration with distributors.

2019年1月，來自全國各地的聯塑經銷商在集團總部召開以「銳意創新，優化管理；共謀發展，砥礪前行」為主題的經銷商大會。集團在總結了過去一年的發展經驗的同時，對經銷商提出合理規劃經營目標、合法合規經營等要求，分享集團最新發展方向和最新產品，並對未來協助經銷商的工作計劃進行闡述，攜手經銷商共商、共建美好未來。



2019 Lesso Distributors Conference
中國聯塑 2019 年經銷商大會現場

CASE 案例

Lesso creates a completely new power supply pipeline business ecosystem via the the new wealth creation scheme 聯塑新財富計劃分享會，打造全新電氣管線生態鏈

Lesso's latest power supply pipelines were released at a conference in October 2019, attracting distributors and partners from around the country to witness the launch of Lesso's new pipeline business ecosystem and new wealth creation scheme that seeks to translate the Group's unique pipeline ecosystem resources into stronger core competitiveness combining the "supply and service chains", thus delivering the optimal synergistic effects in operations.

2019年10月，舉辦了「新生態，新財富」2019年聯塑電氣管線新品發佈會，眾多來自全國各地的聯塑經銷商及合作夥伴，共同出席見證聯塑構築的管道領域新生態和財富計劃，旨在依託聯塑在管道產業的生態資源優勢，強化「供應鏈+服務鏈」核心競爭力，實現整體運營協同效應最大化。



Release of the new wealth creation scheme benefiting distributors
向廣大經銷商朋友重磅推出新財富計劃，共享財富新機

Growing with Higher Education Institutions

The Group continued to deepen partnerships with higher education institutions, and established a fully integrated cooperation mechanism combining enterprises and education and research institutions to step up the training of creative professionals, build on businesses innovation capacities and competitiveness, and achieve win-win results for all parties.

Through collaboration with Academician Qu Jinping of South China University of Technology and his innovative team, we built the "China Lesso Plastic Pipe Workstation for Academicians", and jointly conducted research projects, and co-founded Guangdong Liansu Technology Industrial Co., Ltd. (as the "Professional Degree Postgraduate Joint Training Base" of South China University of Technology) to improve our product R&D capabilities and ensure a reliable supply of highly qualified human resources at the same time.

"Core Technology of High-Performance Environmentally Friendly Plastic Pipe Manufacturing and Applications Thereof", a project jointly developed by the Group and South China University of Technology, Sun Yat-sen University, Guangdong Provincial Institute of New Materials, Fudan University, won the "First Prize of Science and Technology Progress Award of China Light Industry Federation (2019)".

Hunan Huaqing and the School of Food Science and Technology, Hunan Agricultural University, jointly established the "Agricultural Product Safety Technology Exchange Center" as the school's teaching training base to promote in-depth technological partnership between the company and the school, facilitating communications between their technical staff and researchers with respect to technical issues arising from R&D projects.

Shaanxi Lesso and Xian University of Science and Technology have entered into an enterprise - higher education - research institute partnership to engage in joint technological studies and HR training. The pair is seeking to bring their collaborations to a new level in terms of joint R&D, commercialisation of research findings and sharing of human resources.

與院校共成長

集團不斷深化與高等院校的合作關係，構建產學研一體化合作機制，加大創新人才培養力度，增強企業創新能力和市場競爭力，實現雙方共贏。

集團與華南理工大學瞿金平院士及其創新團隊共建「中國聯塑塑料管道院士工作站」，共同開展科研項目研究，並聯合建立「廣東聯塑科技實業有限公司 - 華南理工大學專業學位研究生聯合培養基地」，在提升產品研發水平的同時壯大企業人才隊伍。

集團與華南理工大學、中山大學、廣東省新材料研究所、復旦大學共同研發項目「高性能環保塑料管道製造關鍵技術及應用」獲得 2019 年度「中國輕工業聯合會科學技術進步獎一等獎」。

湖南華清與湖南農業大學食品科學技術學院共同建立「農產品安全技術交流中心」，並掛牌成為學院的教學實習基地，促進企業與學院在技術領域更深層次的合作，方便雙方科研人員就科研項目中的技術問題進行及時溝通。

陝西聯塑與西安科技大學達成產學研合作，雙方在合作技術研究與人才領域開展深入合作助力校企雙方在科技研發合作、科技成果轉化、專業人才資源共享方面邁出新步伐。

Hainan Lesso has embarked on two joint projects with Hainan University - the "Graduate Workstation" and the "Internship Training Base", laying a solid technical foundation for the introduction of a long-term continuous university-enterprise research mechanisms. The initiatives will help both parties improve their high-tech R&D capabilities, and step up the application and development of technological innovations.



海南聯塑與海南大學簽約並揭牌「研究生工作站」及「實習實訓基地」合作項目，為建立雙方校企合作技術長期持續的研究機制，提高雙方高新技術研發能力，增強科技創新的實施及發展等提供重要技術支持。

Hainan Lesso and Hainan University jointly unveiled the "Graduate Workstation" and the "Internship Training Base" 海南聯塑與海南大學簽約並揭牌「研究生工作站」及「實習實訓基地」合作項目

Advancing with the Industry

The Group actively promoted industry development, engaged in collaborations with up- and down-stream enterprises on an extensive scale, and stimulated the overall development of the market through concrete actions, facilitating the formation of a more dynamic business ecosystem.

與行業共進步

集團積極推動行業進步，與上下游企業廣泛開展合作，用自身行動助力行業發展，推動形成更富活力的行業生態。



China Lesso and Ba Steel partner up to infiltrate local markets in five Central Asian countries

共享新機攜手並進中亞五國市場

China Lesso and Xinjiang Ba Steel International Trade Co., Ltd. ("Ba Steel") officially entered into a strategic partnership at the headquarters of Baosteel Group Xinjiang Bayi Iron & Steel Co., Ltd. in May 2019. The deal will help both companies enhance the quality, breadth and depth of bilateral collaborations and benefit from more market opportunities, leveraging Ba Steel's full-established sales channels and high-quality client resources, as well as China Lesso's large-scale manufacturing strengths, complete plastic pipe product lines and well-established service network.

2019 年 5 月，中國聯塑和新疆八鋼國際貿易股份有限公司（簡稱「八鋼國貿」）在烏魯木齊八一鋼鐵總部舉行戰略合作簽約儀式。此次戰略合作將更有利於發揮八鋼國貿成熟的銷售渠道與優質的客戶資源優勢，以及中國聯塑強大的規模化生產能力、配套齊全的塑料管道產品和完善的服務體系優勢，推動雙方往更高、更廣、更深層次領域的合作，共贏更豐富的市場機會。

CASE 案例

China Lesso Hosted the 6th China International Plastic Pipe Conference
承辦第六屆中國國際塑料管道交流會

The Group hosted the 6th China International Plastic Pipe Conference in Guangzhou in November 2019. In his speech titled "Continuous Development and Application of High-Performance and Environmental-Friendly PVC Piping Systems", Vice President and Chief Engineer, Dr. Song Keming, talked about the emerging trend toward the development of high-performance and environmentally-friendly PVC pipe products, and elaborated on the development of lead-free PVC pipes and fittings and solutions, outlining high-performance PVC products, future development trends and applications. Dr. Song shared his expertise and unique insights with the audience, inspiring them to think about the future development directions of the PVC pipeline market.



2019年11月，由中國聯塑承辦的第六屆中國國際塑料管道交流會在廣州舉行，集團副總裁兼總工程師宋科明博士以「高性能環保型PVC管道系統的持續性發展及應用」為題作報告，介紹了當前PVC管道發展的高性能化和環保化方向，詳細闡述了PVC管材管件無鉛化執行過程和解決方案，針對PVC管道高性能化發展的產品概況及未來的發展和推廣應用進行了闡述，向行業分享聯塑經驗和獨到見解，為行業發展方向提供了富有價值的思路。

Dr. Song Keming gave a speech at the 6th China International Plastic Pipe Conference

宋科明博士在第六屆中國國際塑料管道交流會中發表演講

Expressing Love with Charity Events

Adhering to the philosophy of "supporting and giving back to society", the Group pays due attention to what the society actually needs, and proactively fulfills its social responsibilities; continuously organized and held charity and volunteer service events, and shared its achievements in business development with the society, expressing love through charity and volunteer activities.

External donations: RMB **7,481,500**

Volunteer services: **177** hours

Participation in volunteer activities by employees: **70** person-times

愛心傳遞 公益溫情

集團秉持「服務社會、回饋社會」的公益理念，持續關注社會需求，積極承擔社會責任，持續開展公益慈善和志願服務活動，與社會共享企業發展成果，向社會傳遞企業溫度。

對外捐贈 **748.15** 萬元

志願服務 **177** 小時

員工參與志願活動 **70** 人次



Heshan Lesso Industrial Development Co., Ltd. won the **Charity Award**

鶴山聯塑實業發展有限公司榮獲 **慈善公益獎**

Involvement in the "Tough Battle" of Poverty Elimination

Leveraging its competitive strengths, the Group partnered up with suppliers to improve infrastructure facilities in poor areas in line with relevant national policies, and participated in the campaign of "poverty alleviation through education", thereby making its own contributions to winning the "tough battle" of poverty elimination.

助力脫貧攻堅

集團響應國家號召，利用企業自身優勢，聯合供應商力量，上下合力推動改善貧困地區基礎設施，實施教育扶貧，為打贏脫貧攻堅戰貢獻聯塑力量。



In April and December 2019, Sichuan Lesso donated pipes and fittings worth RMB 125,000 to two local townships in Deyang, Guangfu and Fengdian, to solve issues in the local irrigation systems. They also helped water supply stations in villages replace dilapidated pipelines, benefiting the local residents with improved infrastructure.

2019年4月和12月，四川聯塑分別向德陽市中江縣廣福鎮、馮店鎮捐贈總價值12.5萬元的管材管件，可解決當地灌溉問題，幫助當地村莊供水站更換年久失修、老化的管道，為當地群眾生活提供了堅實有力的基礎設施保障。

HONOURS 榮譽

Lesso's valve products received honorary titles "Famous National Water Supply and Drainage Industry Brand (2017-2018)" and "National Water Supply and Drainage Industry Outstanding Contribution Enterprise (2017-2018)"

聯塑閥門榮獲「2017-2018年度全國給水排水行業名牌」、「2017-2018年度全國給水排水行業突出貢獻企業」稱號



In May 2019, the Guiyang subsidiary donated PE water supply pipes and fittings worth more than RMB 98,000 to the Puan Community, Qingchi Township, Jinsha County, Bijie City. The donated pipes and fittings were used in a drinking water safety project in Huaqiu Township, Tongzi County. The firm also donated 30 computers and bottle water cash coupons worth a total of RMB 110,000 to the A Gong Chui Long Primary School in Zhijin County to improve the local teaching condition, and meet the educational, etc. needs of local residents.

2019年5月，貴陽子公司向畢節市金沙縣清池鎮普安社區捐贈價值超過98,000元的PE給水管材管件，用於桐梓縣花秋鎮解決農戶安全飲水工程，還為織金縣阿弓吹壘小學捐贈了總價值110,000元的30套電腦和瓶裝水現金券，幫助當地改善教學環境，解決民生與教育發展需要。



In October 2019, Yunnan Lesso donated RMB 100,000 worth of PE water supply pipes to Qianwei, Jiangchuan District, Yuxi City, to replace old drinking water pipelines for local public institutions, enterprises and Qianwei Community, Yejiashan Village and Zhuangzi Village, safeguarding drinking water safety and personal health for about 16,000 people.

2019年10月，雲南聯塑向玉溪市江川區前衛鎮捐贈價值100,000元的PE給水管，用於涉及鎮行政企事業單位及前衛社區、業家山村、莊子村約16,000餘名群眾主要飲水管網改造，為民眾的飲水安全和健康提供了保障。



Henan Lesso Industrial Co., Ltd. won the

"Model Enterprise for Outstanding Contribution to Poverty Alleviation" award

Shaanxi Lesso Technology Industrial Co., Ltd. received the

"Honorary Certificate of Poverty Elimination in Qu'an Township"

Sichuan Lesso Technology Industrial Co., Ltd. won the

"Model Enterprise of Poverty Alleviation (2019)" award

河南聯塑實業有限公司榮獲

「助力脫貧攻堅愛心企業奉獻獎」

陝西聯塑科技實業有限公司榮獲

「渠岸鎮脫貧攻堅榮譽證書」

四川聯塑科技實業有限公司榮獲

「2019年度扶貧愛心企業」

Volunteer Services

The Group is always committed to helping people in need and fully performing its social responsibilities. Lesso volunteers have continuously organised volunteer service activities to express love to various sectors of society, and promoted social welfare harmony.

Respecting and Supporting the Elderly

The Group always respects and supports senior citizens, and has organised special volunteer service events on a regular basis to provide them with what they need and make life more enjoyable.



Lesso Volunteer Service Team provides senior citizens with special volunteer services

開展志願服務

集團時刻關心社會有需要群體，心懷社會責任，組建聯塑義工隊持續開展志願服務活動，為社會各界傳遞愛心，推動社會公益事業發展，構建和諧社會。

敬老愛老，關愛無價

集團心系老年群體，持續開展敬老愛老活動，為長者提供生活所需，增添生活樂趣，傳播聯塑溫暖。

聯塑義工服務隊開展老年愛心慰問活動

Charity Donations

The Group co-hosted "Lesso Donations 2019" with "Yi Dian Ai Xin" volunteer team, appealing to employees to donate clothes and other everyday necessities to people in need, spreading love across society.



Clothes collected for charity donation

公益募捐，傳遞溫暖

集團攜手「衣點愛心志願服務隊」承辦「聯塑公司2019愛心募捐活動」，發動員工為有需要的人士捐贈舊衣物等生活用品，共同傳遞愛心。

舊衣物回收公益活動

Funding Students for a Better Future

The Group truly cares about children, who are the hope of the future. We have donated stationaries and cash to children and students from poor families, and provided funding for students with special difficulties, paving their way to a bright future.

助學解困，守護未來

集團始終心懷祖國未來的花朵，為貧困兒童和學生提供學習用品和慰問金，積極參與助學活動，在他們成長的路上搭建通往陽光未來的橋樑。



The Group has been closely involved with the "Funding Students with Love" campaign 集團參與「愛·助學」活動



Lesso Yunnan donated stationaries and cash to students from poor families near the company 雲南聯塑為公司周邊學校貧困學生送去學習用具及慰問金

OUTLOOK

Upholding the branding philosophy of "building a relaxing life for residents with quality Lesso products", the Group has established the fundamental strategy for 2020 focusing on "thorough development of core businesses, diversification into global markets, business enablement through platformisation, and steady and sustainable development", adhering to the principle of "quality prioritisation, worldwide operations and resources optimisation", in line with its commitment to ensuring optimal quality in all business operations, from R&D, production, sales and logistics to after-sales services. We will continue to grow footprint on international markets, and establish ourselves as a global provider of fully integrated furnishing solutions, making life more enjoyable for families in China and around the world.

Building a Relaxing Life for Families Worldwide

Revolving around the actual needs of customers, we will step up R&D and innovation efforts as well as the commercialisation of research findings, optimise product quality management, ensure work safety, continuously diversify product lines, and make our products more competitive, catering to consumers' need for high-quality furniture and urban living.

Promoting Sustainable Development between Businesses and the Environment

In line with the government's appeal to develop "ecological civilization", we will respond actively to climate change, further develop environmental management, step up "green operations", and mitigate the impact of production activities on the environment, thus facilitating the formation of a community of shared future for mankind.

Building a Harmonious Society

Adhering to the principle of "people first", we will actively promote the well-being of employees, establish harmonious and mutually beneficial relationships with our partners, create a responsible supply chain in collaboration with up- and down-stream companies leveraging our professional strengths, get actively involved in social welfare causes, and share achievements in business growth with other members of society.

展望

2020年，中國聯塑將秉持「為居者構築輕鬆生活」的品牌理念，信守從研發、生產、銷售、運輸到服務的品質承諾，堅持品質先行、全球運營、資源優化的原則，制定「深耕主業、延伸海外、平台賦能、穩行致遠」基本方略和規劃，進一步完善國際市場佈局，努力成為家居一體化解決方案的全球提供商，為中國乃至全球千萬家庭構築輕鬆生活。

為全球居者構築輕鬆生活

緊密圍繞客戶需求，加大科研創新力度，加快創新成果轉化，優化產品質量管理，夯實安全生產基礎，不斷豐富產品類型，持續提升產品優勢，滿足居者對品質家居需求，創造更美好的城市生活。

推動企業與環境的可持續發展

積極響應國家生態文明建設的號召，積極應對氣候變化，完善環境管理，加強綠色運營，降低企業生產運營對環境的影響，攜手社會各界共建人類命運共同體。

共建和諧美好的社會

堅持以人為本，積極增進員工福祉，與合作夥伴建立和諧共贏的良性關係，攜手上下游企業打造責任供應鏈，發揮企業自身專業優勢，積極投身社會公益事業，與社會共享企業發展成果。

REPORT INDICATOR INDEX

報告指標索引

Environment

環境

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
AI Emissions 排放物	General Disclosure 一般披露	Information on (a) policies, and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land and generation of hazardous and non-hazardous waste. 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無害廢棄物的產生等的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的數據。	"Responding to Climate Change through Concerted Efforts", and "Greenification of Operations with Perseverance" 「齊心應對氣候變化」、「恒心秉持綠色運營」中披露	<i>Environmental Protection Law of the People's Republic of China, Law of the People's Republic of China on Prevention and Control of Water Pollution, Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution, Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste and Emission Standard for Industrial Enterprises Noise at Boundary</i> 《中華人民共和國環境保護法》、《中華人民共和國水污染防治法》、《中華人民共和國大氣污染防治法》、《中華人民共和國固體廢棄物污染環境防治法》、《工業企業廠界環境噪聲排放標準》
A1.1		The types of emissions and respective emission data. 排放物種類及相關排放數據。	"Treatment of Wastewater", "Waste Management" and "Waste Gas Management" 「廢水處理」、「廢棄物管理」、「廢氣管理」中披露	The Group legally discharged 2,431,009.00 tons of domestic wastewater; disposed 6,242.00 tons of hazardous waste and 82,004.17 tons of non-hazardous waste; 408,537.30 tons of NO _x emissions and 2,032.52 tons of SO _x emissions. 合法排放生活廢水 2,431,009.00 噸；處置有害廢棄物 6,242.00 噸、無害廢棄物 82,004.17 噸；NO _x 排放量 408,537.30 噸，SO _x 排放量 2,032.52 噸
A1.2		Total greenhouse gas emissions (in tons) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 溫室氣體總排放量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	"Responding to Climate Change through Concerted Efforts" 「齊心應對氣候變化」中披露	The Group's greenhouse gas emissions totaled 609,631.89 tons. 溫室氣體排放量 609,631.89 噸
A1.3		Total hazardous waste produced (in tons) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生有害廢棄物總量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）	"Waste Management" 「廢棄物管理」中披露	The Group disposed of 6,242.00 tons of hazardous waste. 處置有害廢棄物 6,242.00 噸

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
	A1.4	Total non-hazardous waste produced (in tons) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生無害廢棄物總量（以噸計算）及（如適用）密度（如以每產量單位，每項設施計算）。	"Waste Management" 「廢棄物管理」中披露	The Group disposed of 82,004.17 tons of non-hazardous waste. 處置無害廢棄物 82,004.17 噸
	A1.5	Description of measures to mitigate emissions and results achieved. 描述減低排放量的措施及所得成果。	"Greenification of Operations with Perseverance" 「恆心秉持綠色運營」中披露	Pipeline transportation and fixed-point unloading were adopted, and water-based paint was used as the replacement paint material to reduce exhaust gas and dust emissions in plants. 採用管道輸送、定點卸料、改用水性漆等方式，降低生產車間的廢氣、粉塵等排放。
	A1.6	Description of how hazardous and non-hazardous wastes are handled, initiatives and results achieved. 描述處理有害及無害廢棄物的方法，減低產生量的措施及所得成果。	"Waste Management" 「廢棄物管理」中披露	Waste classification and treatment, volume reduction and harmless treatment or recycling were adopted to reduce the quantities of waste discharged. 通過分類處理、減量化、無害化或回收利用等措施減少廢棄物排放。
A2 Use of Resources 資源使用	General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源（包括能源、水及其他原材料）的政策。	"Responding to Climate Change through Concerted Efforts", "Conservation of Resources" 「齊心應對氣候變化」、「節約資源」中披露	<i>Energy Conservation Law of the People's Republic of China</i> 《中華人民共和國節約能源法》
	A2.1	Direct and/or indirect total energy consumption by type (e.g. electricity, gas or oil) (in 1,000 KWH) and intensity (e.g. per unit of production volume, per facility). 按類型劃分的直接及/或間接能源（如電、氣或油）總耗量（以千個千瓦時計算）及密度（如以每產量單位，每項設施計算）。	"Responding to Climate Change through Concerted Efforts" 「齊心應對氣候變化」中披露	Energy/resources consumed: 1,079,227,800 kWh of power, 2,740.50 tons of diesel, 908.96 tons of gasoline, 3,111.6 million cubic meters of natural gas, 97.64 tons of lubricating oil 消耗電能 107,922.78 萬千瓦時，柴油 2,740.50 噸，汽油 908.96 噸，天然氣 311.16 萬立方米，潤滑油 97.64 噸

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
	A2.2	Total water consumption and intensity (e.g. per unit of production volume, per facility). 總耗水量及密度（如以每產量單位，每項設施計算）	"Conservation of Resources" 「節約資源」中披露	The annual water consumption of the Group was 4,042,900 tons. 耗水量 404.29 萬噸
	A2.3	Description of energy use efficiency initiatives and results achieved. 描述能源使用效益計劃及所得成果。	"Responding to Climate Change through Concerted Efforts" 「齊心應對氣候變化」中披露	The Group established an energy management system, proactively eliminated backward production capacity, developed renewable energy resources, and cut back on energy consumption. 搭建能源管理系統，主動淘汰落後產能，開發可再生能源，減少能源消耗。
	A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency initiatives and results achieved. 描述求取適用水源上可有任何問題，以及提升用水效益計劃及所得成果。	"Conservation of Resources" 「節約資源」中披露	The Group recycled virtually 100% of production water, and installed water purification devices to reduce water consumption, and improve water quality and efficiency at the same time. 生產用水基本全部實現循環再用，加裝水質淨化處理設備，在提高生產用水質量和利用率的同时減少水資源消耗。
	A2.5	Total packaging materials (in tons) used for finished products and with reference to per unit produced where applicable. 製成品所用包裝材料的總量（以噸計算）及（如適用）每生產單位占量。	"Conservation of Resources" 「節約資源」中披露	7,488 tons of packaging materials were used for finished products. 製成品所用包裝材料 7,488 噸
A3: Environment and Natural Resources 環境及天然資源	General Disclosure 一般披露	Policies on minimizing the issuer's significant impact on the environment and natural resources. 減低發行人對環境及天然資源造成重大影響的政策。	"Noise Control" 「噪音控制」中披露	<i>Emission Standard for Industrial Enterprises Noise at Boundary</i> 《工業企業廠界環境噪音排放標準》
	A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them. 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動。	"Noise Control" 「噪音控制」中披露	The Group replaced dilapidated and noisy equipment, enclosed and insulated areas with a high noise level such as fan rooms and compressor rooms, and provided staff with earmuffs, earplugs and other labor protection products to reduce the impact of noise on the environment and employees. 更換噪音大的老舊設備，對風機房、壓縮機房等噪音大區域圍蔽隔音，配備耳罩、耳塞等勞保用品，降低噪音對環境及員工的影響。

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
B1 Employment 僱傭	General Disclosure 一般披露	Information on (1) policies, and (2) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination and other benefits and welfare. 有關薪酬及解僱, 招聘及晉升, 工作時數, 假期, 平等機會, 多元化, 反歧視以及其他待遇及福利的: (一) 政策; 及 (二) 遵守對發行人有重大影響的相關法律及規例的資料。	"Safeguarding the Rights and Interests of Employees" 「保護員工權益」 中披露	We have rigorously complied with the <i>Labor Law of the People's Republic of China</i> and other relevant laws and regulations, and formulated the <i>Guidelines for the Management of Labor Relations and Remuneration Management Regulations of China Lesso</i> to safeguard the legitimate rights and interests of employees. 嚴格遵守《中華人民共和國勞動法》等相關法律法規, 制定《勞動關係管理指引》、《中國聯塑薪酬管理制度》, 維護員工各項合法權益。
	B1.1	Total number of employees by gender, employment type, age group and geographical region. 按性別, 僱傭類型, 年齡組別及地區劃分的僱員總數。	"Diversified HR Structure" 「多元人才結構」 中披露	Female: 3,702 / male: 9,022 Senior management: 177 / middle management: 836 / junior management: 5,771 / general employees: 5,940 Under 30: 3,613 / aged 31-50: 8,562 / aged 51 and above: 549 South China: 5,589 / central China: 3,234 / north China: 455 / east China: 811 / northwest: 656 / southwest: 1,614 / northeast: 312 / Hong Kong, Macau, Taiwan and foreign countries: 53 High school and below: 8,371 / junior college: 2,603 / undergraduate: 1,643 / postgraduate and above: 107 女性: 3,702 人 / 男性: 9,022 人 高層: 177 人 / 中層: 836 人 / 基層: 5,771 人 / 普通員工: 5,940 人 30 歲及以下: 3,613 人 / 31-50 歲: 8,562 人 / 51 歲及以上: 549 人 華南: 5,589 人 / 華中: 3,234 人 / 華北: 455 人 / 華東: 811 人 / 西北: 656 人 / 西南: 1,614 人 / 東北: 312 人 / 港澳台及外籍: 53 人 高中及以下: 8,371 人 / 大專: 2,603 人 / 本科: 1,643 人 / 碩士及以上: 107 人
	B1.2	Employee turnover rate by gender, age group and geographical region. 按性別, 年齡組別及地區劃分的僱員流失比率。	"Diversified HR Structure" 「多元人才結構」 中披露	Female: 33.0% / male: 35.8% Under 30: 54.3% / aged 31-50: 27.6% / aged 51 and above: 22.6% South China: 25.8% / central China: 42.4% / north China: 31.4% / east China: 45.6% / northwest: 61.9% / southwest: 34.8% / northeast: 49.0% / Hong Kong, Macau, Taiwan and foreign countries: 9.4% 女性: 33.0% / 男性: 35.8% 30 歲及以下: 54.3% / 31-50 歲: 27.6% / 51 歲及以上: 22.6% 華南: 25.8% / 華中: 42.4% / 華北: 31.4% / 華東: 45.6% / 西北: 61.9% / 西南: 34.8% / 東北: 49.0% / 港澳台及外籍: 9.4%

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
B2 Health and Safety 健康與安全	General Disclosure 一般披露	Information on (1) policies, and (2) their compliance with relevant laws and regulations that have a significant impact on the issuer, in regards to the provision of a safe working environment and protection of employees from occupational hazards. 有關提供安全工作環境及保障僱員避免職業性危害的: (一) 政策; 及 (二) 遵守對發行人有重大影響的相關法律及規例的資料。	"Occupational Health and Safety" 「職業健康安全」 中披露	The Group has acted in strict compliance with the laws and regulations on occupational health. 嚴格遵守職業健康法律法規。
	B2.1	Number and rate of work-related fatalities. 因工作關係而死亡的人數及比率。	"Occupational Health and Safety" 「職業健康安全」 中披露	N/A 無
	B2.2	Lost days due to work injury. 因工傷損失工作日數。	"Occupational Health and Safety" 「職業健康安全」 中披露	3,884 working days 3,884 個工作日
	B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored. 描述所採納的職業健康與安全措施, 以及相關執行及監察方法。	"Occupational Health and Safety" 「職業健康安全」 中披露	The Group further developed the safety management system and policies, held safety and health related training courses, provided employees with labor protection supplies and fitness facilities to protect the physical well-being of staff members. 完善安全管理體系與制度, 開展安全與健康相關課程培訓, 為員工提供勞保用品及健身設施, 保障員工身體健康。
B3 Development and Training 發展與培訓	General Disclosure 一般披露	Policies on improving employees' knowledge and skills for discharging duties at work. Descriptions of training activities. 有關提升僱員履行工作職責的知識及技能的政策。描述培訓活動。	"Building a Career Development Platform for Employees" 「搭建員工成長平台」 中披露	The Group revamped the employee training system, continuously improved the quality of internal trainers, and launched various types of training programs and courses to enhance employees' professional expertise and qualifications. 完善員工培訓體系, 以聯塑學院為教育陣地, 不斷提高內訓師水平, 推出多種類型的培訓項目及課程, 提升員工職業技能和素養。
	B3.1	Number of employees trained, by gender and employee type (e.g. senior management, middle management). 按性別及僱員類別 (如高級管理層, 中級管理層等) 劃分的受訓僱員百分比。	Diversified Training for Employees" 「多元化員工培訓」 中披露	Female: 36,893 / male: 80,146 person-time Senior management: 892 persontime / middle management: 3,446 person-time / junior management: 5,411 person-time / general employees: 107,290 person-time 女性: 36,893 人次 / 男性: 80,146 人次 高層: 892 人次 / 中層: 3,446 人次 / 基層: 5,411 人次 / 普通員工: 107,290 人次

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
	B3.2	Average hours for completion of training, by gender and employee type. 按性別及雇員類別劃分，每名雇員完成受訓的平均時數。	"Diversified Training for Employees" 「多元化員工培訓」中披露	Female: 10 hours / male: 9 hours Senior management: 5 hours / middle management: 4 hours / junior management: 1 hour / general employees: 18 hours 女性：10 小時 / 男性：9 小時 高層：5 小時 / 中層：4 小時 / 基層：1 小時 / 普通員工：18 小時
B4 Labour Standards 勞工準則	General Disclosure 一般披露	Information on (1) policies and (2) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labour. 有關防止童工或強制勞工的：(一) 政策；及 (二) 遵守對發行人有重大影響的相關法律及規例的資料。	"Upholding Employment Equality" 「堅持平等僱傭」中披露	We have been in compliance with relevant laws and regulations such as the <i>Labor Law of the People's Republic of China</i> , and against any form of child labor and forced labor, to create a fair and legal employment environment. 遵守《中華人民共和國勞動法》等相關法律法規，反對以任何形式僱用童工和強迫勞動，營造公平、合法的僱傭環境。
	B4.1	Description of measures to review employment practices to avoid child and forced labour. 描述檢討招聘慣例的措施以避免童工及強制勞工。	"Upholding Employment Equality" 「堅持平等僱傭」中披露	We have been against any form of child labor and forced labor to create a fair and legal employment environment. 反對以任何形式僱用童工和強迫勞動，營造公平、合法的僱傭環境。
	B4.2	Descriptions of steps taken to eliminate such practices when discovered. 描述在發現違規情況時消除有關情況所採取的步驟。	"Upholding Employment Equality" 「堅持平等僱傭」中披露	We have been against any form of child labor and forced labor to create a fair and legal employment environment. 反對以任何形式僱用童工和強迫勞動，營造公平、合法的僱傭環境。
B5 Supply Chain Management 供應鏈管理	General Disclosure 一般披露	Policies on managing environmental and social risks along the supply chain. 管理供應鏈的環境及社會風險政策。	"Strengthening Supply Chain Management" 「加強供應鏈管理」中披露	<i>Supplier Management Measures</i> 《供應商管理辦法》
	B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目。	"Creating a Responsible Supply Chain" 「打造責任供應鏈」中披露	South China: 1,694 / central China: 507 / north China: 180 / east China: 787 / northwest: 169 / southwest: 226 / northeast: 75 / Hong Kong, Macao, Taiwan, and foreign countries: 6 華南 1,694 家 / 華中 507 家 / 華北 180 家 / 華東 787 家 / 西北 169 家 / 西南 226 家 / 東北 75 家 / 港澳台及外國 6 家
	B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored. 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目，以及有關慣例的執行及監察方法。	"Strengthening Supply Chain Management" 「加強供應鏈管理」中披露	100% of suppliers were selected using the ISO 9000 quality standards, the ISO 14000 environmental standards, and the ISO 18000 occupational health and safety standards, respectively. 用 ISO 9000 質量標準、ISO 14000 環境標準、ISO 18000 職業健康安全標準篩選供應商的比例 100%

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現
B6 Product Responsibility 產品責任	General Disclosure 一般披露	Information on (1) policies and (2) compliance with relevant laws and regulations that have a significant impact on the issuer relating to health and safety, advertising, labeling and privacy matters relating to products and services provided and methods of redress. 有關所提供產品和服務的健康與安全，廣告，標籤及私隱事宜以及補救方法的：(一) 政策；及 (二) 遵守對發行人有重大影響的相關法律及規例的資料。	"Rigorous Production Process Control and Management" 「用心管控生產流程」、「保障客戶權益」中披露	<i>Work Safety Law and Management Measures on Advertising Resources</i> . We provided products and services in accordance with the laws and regulations. Customers' needs are identified, interpreted and satisfied in a timely manner to safeguard the legitimate rights and interests and information security of customers. 《安全生產法》《廣告資源管理辦法》 堅持依法依規提供產品和服務，及時識別、了解和滿足客戶需要，注重保護客戶的合法權益和信息安全。
	B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons. 已售或已運送產品總數中因安全與健康理由而須回收的百分比。	"Rigorous Production Process Control and Management" 「用心管控生產流程」中披露	No product and service recall events that have significant impact on the operation of the Group during the reporting period. 報告期內沒有發生對集團運營具有重大影響的產品及服務回收事件。
	B6.2	Number of products and service-related complaints received and how they were dealt with. 接獲關於產品及服務的投訴數目以及應對方法。	"Protection of Customer Rights and Interests" 「保障客戶權益」中披露	The Group received 15 valid complaints related to products or services, and the rate of response to customer complaints was 100%. We promptly communicated customers' feedback to the relevant departments, and made continuous follow-ups until the customer is satisfied. 接獲關於產品或服務的有效投訴 15 宗，客戶投訴回復率 100%。 及時將客戶反饋意見傳達到相關部門，並作持續的跟進反饋，直至客戶滿意。
	B6.3	Description of practices relating to observing and protecting intellectual property rights. 描述與維護及保障知識產權有關的慣例。	"Intellectual Property Protection" 「知識產權保護」中披露	The Group effectively safeguarded its intellectual property, and protected its rights against companies that violate the "Lesso" trademark or brand name by issuing lawyer's letters, and by filing complaints to industry and commerce administration authorities and lawsuits with courts. 通過發送律師函、向工商部門投訴、向法院起訴的方式對侵犯「聯塑」商標和字號的企業進行維權，有效維護及保障知識產權。

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現	
	B6.4	Description of quality assurance processes and recall procedures. 描述質量檢定過程及產品回收程序。	"Quality Assurance" 「保障產品質量」中披露	The Group conducts comprehensive multi-dimensional inspection from the incoming of raw materials, product design and sample creation to production and product delivery. It relies on the three inspection system of "self-inspection, mutual inspection and sampling inspection" to control production and ensure stable product quality. A strict product recall process has been established. For unqualified products, the Group will initiate the product recall process as soon as possible. 從原材料入廠，產品設計、打樣、生產到產品出廠進行全面立體檢測，依靠「自檢，互檢，抽檢」三檢制度對生產進行控制，確保產品質量的穩定。 建立了嚴格的產品召回流程，對於不合格產品，集團第一時間啟動產品召回程序。	
	B6.5	Descriptions of consumer data protection and privacy policies, how they are implemented and monitored. 描述消費者資料保障及私隱政策，以及相關執行及監察方法。	"Protection of Customer Rights and Interests" 「保障客戶權益」中披露	The Group attaches great importance to customer privacy and information security, strengthens customer information management and guards against customer privacy leakage risks with strict the processes and operational procedures to ensure customer privacy. 重視客戶的私隱和信息安全，加強客戶的信息管理，以嚴格的規範流程和操作程序防範客戶私隱洩露風險，切實保障客戶私隱。	
B7 Anti-corruption 反貪污	General Disclosure 一般披露	Information on (1) policies and (2) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering. 有關防止賄賂，勒索，欺詐及洗黑錢的：(一) 政策；及(二) 遵守對發行人有重大影響的相關法律及規例的資料。	"Anti-corruption and Anti-fraud Campaigns" 「反腐敗與反舞弊」中披露	<i>Anti-fraud Management System</i> 《反舞弊管理制度》	
	B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases. 于匯報期內對發行人或其雇員提出並已審結的貪污訴訟案件的數目及訴訟結果。	"Anti-corruption and Anti-fraud Campaigns" 「反腐敗與反舞弊」中披露	The Group received three corruption/fraud-related reports in 2019. 收到反舞弊舉報 3 次。	

Aspect 層面	Indicator No. 指標編號	Content 指標內容	Location in the Report 所在報告位置	Performance 指標表現	
	B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored. 描述防範措施及舉報程序，以及相關執行及監察方法。	"Anti-corruption and Anti-fraud Campaigns" 「反腐敗與反舞弊」中披露	The Group formed an anti-fraud management team to prevent incidents that incur losses on the interests of the Company and our shareholders. It also created many reporting channels for handling complaints and whistleblowing of fraudulent actions. 成立反舞弊管理小組，嚴防損害公司及股東利益的行為發生，並設立多種舉報渠道，受理損害集團利益的舞弊行為投訴與舉報。	
B8 Community Investment 社區投資	General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests. 有關以社區參與來了解營運所在社區需要和確保其業務活動會考慮社區利益的政策。	"Expressing Love with Charity Events" 「愛心傳遞公益溫情」中披露	The Group pays due attention to what the society actually needs, and proactively fulfills its social responsibilities; continuously organised and held charity and volunteer service events, and shared its achievements in business development with the society, expressing love through charity and volunteer activities. 關注社會需求，積極承擔社會責任，持續開展公益慈善和志願服務活動，與社會共享企業發展成果，向社會傳遞企業溫度。	
	B8.1	Focus areas of contribution (e.g. education, environmental concerns, labor needs, health, culture and sports). 專注貢獻範疇（如教育，環境事宜，勞工需求，健康，文化，體育）。	"Expressing Love with Charity Events" 「愛心傳遞公益溫情」中披露	Leveraging its competitive strengths, the Group partnered up with suppliers to improve infrastructure facilities in poor areas, and participated in the campaign of "poverty alleviation through education", thereby making its own contributions to winning the "tough battle" of poverty elimination. 利用企業自身優勢，聯合供應商力量，上下合力推動改善貧困地區基礎設施，實施教育扶貧，為打贏脫貧攻堅戰貢獻聯塑力量。	
	B8.2	Resources allocated (e.g. money or time) to the focus areas. 在專注範疇所動用資源（如金錢或時間）。	"Expressing Love with Charity Events" 「愛心傳遞公益溫情」中披露	The Group donated RMB 7,481,500, and organised 177 hours of volunteer service, with 70 person-times participating in the volunteer activities 對外捐贈 748.15 萬元，志願服務時間 177 小時，志願服務 70 人次	

HONOURS

Honours Won for Environmental Efforts

Award Winner 獲獎單位	Honour 榮譽稱號	Presented by 頒發單位
Lesso Technology Development (Guiyang) Co., Ltd. 聯塑科技發展（貴陽）有限公司	Model Enterprise of Environmental Integrity 環保誠信企業	Qingzhen Branch of Guiyang Municipal Bureau of Ecology and Environment 貴陽市生態環境局清鎮分局
Lesso Technology Development (Guiyang) Co., Ltd. 聯塑科技發展（貴陽）有限公司	Advanced Unit of Energy Conservation and Emission Reduction of Guangzhou Province 貴州省節能減排先進單位	Guizhou Province Energy Conservation and Emission Reduction Research Association 貴州省節能減排研究會
Guangdong Lesso Valve Co., Ltd. 廣東聯塑閥門有限公司	Model Enterprise of Clean Production 清潔生產企業	Industry and Information Technology Bureau of Yunfu Municipality 雲浮市工業和信息化局
Jiangsu Yongbao Environmental Technology Co., Ltd. 江蘇永葆環保科技有限公司	Director of China Association of Circular Economy 中國循環經濟協會理事單位	China Association of Circular Economy 中國循環經濟協會
Foshan Shunde Hui Fengyuan Environmental Engineering Management Co., Ltd. 佛山市順德區滙豐源環保工程管理有限公司	Guangdong Environmental Protection Education Base 廣東省環保教育基地	Guangdong Provincial Department of Ecology and Environment 廣東省生態環境廳
Guangzhou EP Environmental Engineering Ltd. 廣州市環境保護工程設計院有限公司	Backbone Enterprise of China's Environmental Protection Industry 中國環保產業骨幹企業	China Association of Environmental Protection Industry 中國環保產業協會

責任榮譽

環保榮譽

Safety-related Honours

安全榮譽

Award Winner 獲獎單位	Honour 榮譽稱號	Presented by 頒發單位
Shaanxi Lesso Technology Industrial Co., Ltd. 陝西聯塑科技實業有限公司	Work Safety Advanced Enterprise of 2018 2018 年度安全生產先進企業	Xianyang City Safety Production Committee 咸陽市安全生產委員會
Shandong Lesso Technology Industrial Co., Ltd. 山東聯塑科技實業有限公司	Work Safety Advanced Enterprise of the Year (2018) 2018 年度安全生產工作先進單位	Economic and Technological Development Zone Working Committee of the Party Committee of Linyi Municipality, Linyi Economic and Technological Development Zone Administration Committee 中共臨沂市委經濟技術開發區工作委員會、臨沂經濟技術開發區管理委員會
Shandong Lesso Technology Industrial Co., Ltd. 山東聯塑科技實業有限公司	Fire Safety Advanced Enterprise of the Year (2018) 2018 年度消防工作先進單位	Economic and Technological Development Zone Working Committee of the Party Committee of Linyi Municipality, Linyi Economic and Technological Development Zone Administration Committee 中共臨沂市委經濟技術開發區工作委員會、臨沂經濟技術開發區管理委員會
Nanjing Lesso Technology Industrial Co., Ltd. 南京聯塑科技實業有限公司	Grade-3 Certificate of Safety Production Standardisation 安全生產標準化三級證書	Emergency Management Bureau of Lishui District, Nanjing 南京市溧水區應急管理局
Nanjing Lesso Technology Industrial Co., Ltd. 南京聯塑科技實業有限公司	Safety Enterprise of Nanjing 南京市平安企業	Leadership Group for the Safety Enterprise Campaign in Nanjing 南京市平安企業創建活動領導小組
Henan Lesso Industrial Co., Ltd. 河南聯塑實業有限公司	Work Safety Advanced Enterprise of the Year (2018) 2018 年度安全生產工作先進單位	Industrial Conglomeration Management Committee of Huaiyang County 淮陽縣產業集聚區管委會

Product Quality-related Honours

產品質量榮譽

Award Winner 獲獎單位	Honour 榮譽稱號	Presented by 頒發單位
Shaanxi Lesso Technology Industrial Co., Ltd. 陝西聯塑科技實業有限公司	"Xianyang Quality Award" (2019) 2019 年度「咸陽市質量獎」榮譽	People's Government of the Xianyang Municipality 咸陽市人民政府頒發
Shaanxi Lesso Technology Industrial Co., Ltd. 陝西聯塑科技實業有限公司	Vice President of Shaanxi Plastic Industry Association 陝西省塑料工業協會副會長單位	Shaanxi Plastic Industry Association 陝西省塑料工業協會
Lesso Technology Development (Guiyang) Co., Ltd. 聯塑科技發展（貴陽）有限公司	Top-100 Manufacturing Enterprises of Guizhou (2019) 2019 年貴州製造業企業 100 強	Guizhou Enterprise Confederation, Guizhou Provincial Entrepreneurs Association 貴州省聯合會、貴州省企業家協會
Lesso Technology Development (Wuhan) Co., Ltd. 聯塑科技發展（武漢）有限公司	Top-100 Manufacturing Enterprises of Wuhan (2019) 2019 武漢製造業企業 100 強	Wuhan Enterprise Confederation, Wuhan Entrepreneurs Association 武漢企業聯合會、武漢企業家協會
Zhongshan Lesso Walton Coating Steel Plastic Pipe Co., Ltd. 中山聯塑華通鋼塑管有限公司	Certificate of Quality Accreditation 品質驗證證書	China Quality Testing Alliance (Beijing) 中檢華納（北京）質量技術中心
Henan Lesso Industrial Co., Ltd. 河南聯塑實業有限公司	Zhoukou City Thermoplastic Pipeline Innovative Technology Team 周口市熱塑性塑料管道創新型科技團隊	Zhoukou Municipal Science and Technology Bureau 周口市科學技術局



Social Honours

社會榮譽

Award Winner 獲獎單位	Honour 榮譽稱號	Presented by 頒發單位
Zhongshan Lesso Walton Coating Steel Plastic Pipe Co., Ltd. 中山聯塑華通鋼塑管有限公司	Guangdong Province Enterprise of Observing Contract and Valuing Credit 廣東省守合同重信用證書	Guangdong Province Administration for Industry & Commerce 廣東省市場監督管理局
Lesso Technology Development (Wuhan) Co., Ltd. 聯塑科技發展（武漢）有限公司	Hubei "May 1" Labour Certificate 湖北五一勞動獎狀	Hubei Federation of Trade Unions 湖北省總工會
Sichuan Lesso Technology Industrial Co., Ltd. 四川聯塑科技實業有限公司	Model Enterprise for Poverty Alleviation (2019) 2019 年度扶貧愛心企業	Deyang Investment Enterprise Association, People's Government of Wanfu Township, Zhongjiang County 德陽投資企業聯合會、中江縣萬福鎮人民政府
Shaanxi Lesso Technology Industrial Co., Ltd. 陝西聯塑科技實業有限公司	Honorary Certificate for Poverty Alleviation of Quan Township 渠岸鎮脫貧攻堅榮譽證書	CPC Party Committee and People's Government of Quan Township 中共渠岸鎮委員會、渠岸鎮人民政府
Henan Lesso Industrial Co., Ltd. 河南聯塑實業有限公司	Top-10 Corporate Taxpayers of 2018 2018 年度納稅十強企業	CPC Party Committee and People's Government of Huaiyang County 中共淮陽縣委、淮陽縣人民政府
Henan Lesso Industrial Co., Ltd. 河南聯塑實業有限公司	Model Enterprise for Poverty Alleviation through Private Forces in Huaiyang County 淮陽縣社會力量助理脫貧攻堅愛心企業	CPC Party Committee and People's Government of Huaiyang County 中共淮陽縣委、淮陽縣人民政府
Henan Lesso Industrial Co., Ltd. 河南聯塑實業有限公司	Model Enterprise for Outstanding Contribution to Poverty Alleviation 助力脫貧攻堅愛心企業奉獻獎	Industrial Conglomeration Management Committee of Huaiyang County 淮陽縣產業集聚區管理委員會
Lesso Technology Development (Guiyang) Co., Ltd. 聯塑科技發展（貴陽）有限公司	Top-10 Taxpayers of Qingzhen City (2019) 清鎮市 2019 年度十佳納稅人	CPC Party Committee and People's Government of Qingzhen Municipality 中共清鎮市委、清鎮市人民政府
Guangzhou EP Environmental Engineering Ltd. 廣州市環境保護工程設計院有限公司	Guangdong Province Enterprise of Observing Contract and Valuing Credit (2018) 2018 年度廣東省「守合同重信用企業」企業	Guangdong Province Administration for Industry & Commerce 廣東省市場監督管理局
Guangzhou Huaqing Environmental Monitoring Co., Ltd. 廣州華清環境監測有限公司	Model Unit of Business Integrity 信用示範單位	Credit Information Working Committee of China Cultural Information Association 中國文化信息協會信用信息工作委員會
Heshan Lesso Industrial Development Co., Ltd. 鶴山聯塑實業發展有限公司	Charity Award 慈善公益獎	People's Government of Taoyuan Township, Heshan 鶴山市桃源鎮人民政府



READER FEEDBACK

讀者反饋

Dear Sir/Madam,

Thank you for taking the time to read this report. We look forward to receiving your opinions and suggestions so as to improve the compilation of the report and enhance our performance in the fulfillment of corporate social responsibility.

尊敬的讀者：

您好！感謝您於百忙中閱讀我們的報告。期待您分享關於報告的任何意見與想法，幫助我們持續改進報告編制方式及社會責任工作表現。

1 What is the stakeholder type that best describes your position? 以下哪個利益相關方最切合您的身份？

- Government 政府 Investor 投資者 Employee 員工 Customer 客戶 Supplier 供應商
- Distributor 經銷商 Academic/research institute 學術 / 科研機構 Peer 同行
- Community and the Public 社區與公眾 Welfare Group/NGO 福利團體 / 非政府組織 Media 媒體
- Other (please specify) 其他 (請注明) _____

2 Your opinion on this report: 您認為本報告：

	Very good 很好	Good 較好	Acceptable 一般	Poor 較差	Very poor 很差
Structure of the report 報告結構					
Information disclosure 信息披露					
Layout and design 版式設計					
Readability 可讀性					
Overall evaluation 總體評價					

3 Which part(s) of this report are most useful to you (select 2 items) 哪個篇章最切合您的需要？ (可選 2 項)

- Chairman's message 董事長致辭 Corporate governance 企業管治
- Socially responsible management 責任管理 Product diversification 多元產品
- High-quality services 優質服務 Win-win cooperation with partners 夥伴共贏
- Green development 綠色發展 Giving back to local communities 回饋社區 Staff care 關愛員工

4 Do you have any other comments or suggestions regarding our Corporate Social Responsibility Report or performance?

Please send email your feedback to China Lesso's CSR mailbox: csr@lesso.com.

您對我們的社會責任報告或履責表現，還有哪些意見或建議？您可以通過中國聯塑 CSR 專用郵箱 csr@lesso.com 反饋給我們。

LESSO 联塑

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