

2022

环境、社会及管治报告
Environmental, Social and
Governance Report

关于本报告

报告范围

本报告以上海紫江企业集团股份有限公司为主体，涵盖所属子公司。本报告时间范围自 2022 年 1 月 1 日至 2022 年 12 月 31 日，发布周期为年度，部分信息时效会适当前后延展。

本报告为上海紫江企业集团股份有限公司发布的第 3 份环境、社会及管治（Environmental, Social and Governance, ESG）报告。

报告编制依据

本报告参照上海证券交易所《上海证券交易所上市公司自律监管指引第 1 号——规范运作》、GB/T 36001-2015《社会责任报告编写指南》、全球可持续发展标准委员会（GSSB）《GRI 可持续发展报告指南》（GRI Standards）和联合国《2030 可持续发展议程》等编制。

报告发布形式

本报告以印刷版（采用环保纸印刷）和网络版两种形式发布，网络版可在本公司网站（http://www.zijiangqy.com）查阅。

本报告以中、英文两种语言发布，在对两种文本理解发生歧义时，请以中文文本为准。

指代说明

企业简称	企业全称
紫江企业、公司、我们	上海紫江企业集团股份有限公司
上海紫泉包装	上海紫泉包装有限公司
上海紫泉标签	上海紫泉标签有限公司
广东紫泉标签	广东紫泉标签有限公司
成都紫江包装	成都紫江包装有限公司
眉山紫江包装	眉山紫江包装有限公司
上海紫日包装	上海紫日包装有限公司
沈阳紫日包装	沈阳紫日包装有限公司
紫丹食品	上海紫丹食品包装印刷有限公司
紫丹印务	上海紫丹印务有限公司
湖北紫丹	湖北紫丹包装科技有限公司
紫丹包科	上海紫丹包装科技有限公司
上海紫泉饮料	上海紫泉饮料工业有限公司
南京紫乐饮料	南京紫乐饮料工业有限公司

企业简称	企业全称
桂林紫泉饮料	桂林紫泉饮料工业有限公司
陕西紫泉饮料	陕西紫泉饮料工业有限公司
沈阳紫泉饮料	沈阳紫泉饮料工业有限公司
上海紫江彩印	上海紫江彩印包装有限公司
安徽紫江复合材料	安徽紫江复合材料科技有限公司
上海紫江喷铝	上海紫江喷铝环保材料有限公司
安徽紫江喷铝	安徽紫江喷铝环保材料有限公司
紫华企业	上海紫华企业有限公司
紫华科技	上海紫华薄膜科技有限公司
紫江新材料	上海紫江新材料科技股份有限公司
紫东尼龙	上海紫东尼龙材料科技有限公司
紫燕合金	上海紫燕合金应用科技有限公司
紫江国贸	上海紫江国际贸易有限公司
紫江商贸	上海紫江商贸控股有限公司

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About This Report

Reporting Scope

Shanghai Zijiang Enterprise Group Co., Ltd. is the main reporter, including its subsidiaries. The reporting period ranges from January 1, 2022 to December 31, 2022. The report is published annually, with some information dating back to previous years or referring to later years appropriately.

This is the third Environmental, Social and Governance (ESG) report released by Zijiang Enterprise.

Compilation Conformance

The report is prepared in accordance with the *Guidelines No. 1 for Self-Regulation of Listed Companies—Standardized Operation of Listed Companies* released by the Shanghai Stock Exchange, the *GB/T 36001-2015 Guidance on Social Responsibility Reporting*, the *GRI Sustainability Reporting Standards (GRI Standards)* issued by Global Sustainability Standard Board (GSSB), the UN's 2030 Agenda for Sustainable Development, and other relevant standards.

Access to the Report

This report is available in the printed version with eco-friendly paper and electronic version. The electronic version is available on our official website (http://www.zijiangqy.com).

This report is published in both Chinese and English. The Chinese version shall prevail in case of any discrepancy.

Name Description

Abbreviations	Full name
Zijiang Enterprise, the Company, we	Shanghai Zijiang Enterprise Group Co., Ltd.
Shanghai Ziquan Packaging	Shanghai Ziquan Packaging Co., Ltd.
Shanghai Ziquan Label	Shanghai Ziquan Label Co., Ltd.
Guangdong Ziquan Label	Guangdong Ziquan Label Co., Ltd.
Chengdu Zijiang Packaging	Chengdu Zijiang Packaging Co., Ltd.
Meishan Zijiang Packaging	Meishan Zijiang Packaging Co., Ltd.
Shanghai ZiRi Packaging	Shanghai ZiRi Packaging Co., Ltd.
Shenyang ZiRi Packaging	Shenyang ZiRi Packaging Co., Ltd.
Zidan Food	Shanghai Zidan Food Packaging & Printing Co., Ltd.
Zidan Printing	Shanghai Zidan Printing Co., Ltd.
Hubei Zidan	Hubei Zidan Packaging Technology Co., Ltd.
Zidan Packaging Technology	Shanghai Zidan Packaging & Technology Co., Ltd.
Shanghai Ziquan Beverage	Shanghai Ziquan Beverage Industry Co., Ltd.
Nanjing Zile Beverage	Nanjing Zile Beverage Industry Co., Ltd.

Abbreviations	Full name
Guilin Ziquan Beverage	Guilin Ziquan Beverage Industry Co., Ltd.
Shaanxi Ziquan Beverage	Shaanxi Ziquan Beverage Industry Co., Ltd.
Shenyang Ziquan Beverage	Shenyang Ziquan Beverage Industry Co., Ltd.
Shanghai Zijiang Color Printing	Shanghai Zijiang Color Printing & Packing Co., Ltd.
Anhui Zijiang Composite Material	Anhui Zijiang Composite Material Technology Co., Ltd.
Shanghai ZJMP	Shanghai Zijiang Metallization Environmental Protection Material Co., Ltd.
Anhui ZJMP	Anhui Zijiang Metallization Environmental Protection Material Co., Ltd.
Zihua Enterprise	Shanghai Zihua Enterprise Co., Ltd.
Zihua Technology	Shanghai Zihua Film Technology Co., Ltd.
Zijiang New Material	Shanghai Zijiang New Material Technology Co., Ltd.
Zidong Nylon	Shanghai Zidong Nylon Material Technology Co., Ltd.
Ziyan Alloy	Shanghai Ziyan Alloy Application Technology Co., Ltd.
Zijiang Int'l Trade	Shanghai Zijiang International Trading Co., Ltd.
Zijiang Trading	Shanghai Zijiang Trading Holding Co., Ltd.

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高管致辞

春回日暖，草木生发，神州大地生机盎然。

回望 2022 年，在百年变局叠加世纪疫情的洗礼中，紫江人无惧挑战，继续沿着可持续发展的航道破浪前行。在中国奋进新时代的号角声里，今日紫江的发展基础更加稳固、动力更加强劲、前景更加广阔。

应对疫情，守护生命、保产保供，我们义无反顾。2022 年，在此起彼伏的疫情下，我们分布在全国各地的工厂克服种种困难实行自救、保产保供。面对上海这座超大城市史无前例的全面封控以及三家工厂员工大面积的感染，公司董事会与管理层领导夙兴夜寐，妥善处置各种突发状况。企业总经理们身先士卒，始终与 1,500 多名驻厂封闭生产的员工一起坚守岗位。众多管理人员主动下沉到基层各个岗位补缺。在正常物流中断的情况下，我们想方设法疏通各种渠道、利用各种资源寻找安全可靠的运输方式以及物资中转点，确保生产物资供给不中断。在整个城市基本停摆的情况下，不仅我们的客户未曾被断供，而且制造业创造了历史最高销售记录。即使是身处困境，我们仍未忘记企业公民肩负的社会责任，2022 年四月我们向上海市闵行区莘庄镇人民政府捐赠 1,000 万元现金，为防控疫情贡献绵薄之力。

精益创新，注入智能化管理的新动能，我们始终如一。高效的运营与资产产出效率是我们不懈的追求。作为供应商企业，我们不断优化产业布局，始终以开放的思维与上下游企业深入开展多种形式的合作，实现生产组织方式的创新并共享收益，最终减少对社会总资源的占用。

在持续推进精益生产的同时，我们积极探索传统制造业企业的数字化管理，尝试采用 OEE 时间序列分析法等新方式，通过数据管理提高企业运营效率，实现从信息技术到数字技术的转变，把握数字经济发展的时代机遇。

我们坚持以技术研发巩固并创造企业的核心竞争力。均质化材料、纸代塑及可降解膜类产品将为企业可持续发展提供更大的空间。2022 年，我们申请专利 259 项，获得授权专利 252 项，目前处于有效期内的国家级高新技术企业达 19 家。安徽紫江复合材料获工信部专精特新“小巨人”荣誉称号，紫江新材料动力锂电池用铝塑复合膜研发与产业化项目名列上海市战略性新兴产业重大项目。

绿色发展，绘就可持续发展新底色，我们未雨绸缪。我们聚焦“双碳目标”，从绿色设计到绿色生产，从绿色采购到绿色回收，始终秉持绿色低碳理念，并坚守“减量化、再利用、资源化”的原则，与责任客户相向而行，并引导中小客户共同走向循环经济发展的新方向，助力构建更和谐的生态圈。2022 年，我们环保治理投入 3,833.69 万元，同比增加 40.25%；单位产值能耗 570.31 度/万元，同比下降 3.58%。新增光伏安装面积 93,219 平方米，同比增加 79.47%。紫江企业（母体工厂）和桂林紫泉饮料分别获得国家级及省级绿色工厂称号。南京紫乐饮料成为我们第一家实现碳中和的下属企业。

并肩同行，共赢可持续发展新未来，我们全力以赴。我们持续强化安全体系建设，严格落实安全责任，以体系为保障奠定企业高质量发展的基石。我们重视员工在企业发展中的作用，在基本权益之上，积极赋能员工职业能力建设与职业规划，不断提升员工归属感与幸福感。此外，我们携手伙伴支持彼此高质量发展，在为行业可持续发展建言献策的同时，充分发扬志愿服务精神，投身公益行动和志愿服务，为和谐社区的构建贡献紫江力量。

山高路远，始知风光无限；跋山涉水，仍然一往无前。2022 年，我们圆满完成了三年战略地图的目标，并已构建更严密的新三年指标体系，实施新一轮战略。在时代的朝阳里，紫江人再一次开启充满挑战的远航。青山绿水，共续华章；踔厉前行，无限荣光！



Message from the Senior Management

The spring returns with warm sunshine, and vegetation begins to flourish, creating vibrant scenes everywhere.

Looking back at 2022, we faced unprecedented challenges brought about by profound changes and a once-in-a-century pandemic. However, we persevered and remained steadfast in our commitment to sustainable development. Amidst the call for progress in this new era, we have fortified our development foundation, gained stronger momentum, and expanded our horizons.

Without hesitation, we responded to the challenges posed by COVID-19, prioritizing the protection of lives while ensuring the continuity of production and supply. In 2022, confronted with the recurring waves of COVID-19 outbreaks, our factories across the country overcame various obstacles and implemented self-rescue measures to maintain production and supply. Despite the unprecedented city-wide lockdown of Shanghai and large-scale infections among employees at three factories, the Board of Directors and the management of our company worked tirelessly to address the numerous emergencies. Our subsidiary general managers led by example, steadfastly standing alongside over 1,500 employees who worked in sealed-off production zones within the factories. Additionally, many members of our management team voluntarily filled frontline positions. Despite disruptions in normal logistics, we explored various channels, utilized available resources, and established safe and reliable transportation methods and material transfer points to ensure an uninterrupted supply of production materials. Even with the city practically at a standstill, not only were our customers never deprived of supplies, but the manufacturing sector also achieved its highest sales record in history. Furthermore, we remained committed to fulfilling our corporate social responsibilities even in times of difficulty. In April 2022, we donated RMB 10 million in cash to the People's Government of Xinzhuang Town, Minhang District, Shanghai, as our contribution to COVID-19 control efforts.

As always, we remained dedicated to lean management and innovation, unleashing new driving forces for intelligent management. We exerted relentless efforts to achieve highly effective operational and asset output efficiency. As a supplier, we constantly optimized our industry layout and fostered deep collaborations with upstream and downstream partners in various forms with an open mindset. Our aim is to innovate production and organizational methods, share benefits, and ultimately reduce the consumption of total social resources.

While steadfastly promoting lean production, we proactively delved into the digital management of traditional manufacturing enterprises, aiming to enhance corporate operating efficiency through effective data management. This involves adopting OEE time series analysis and other new methods. Our goal is to transition from information technology to digital technology, capitalizing on the opportunities presented in the era of digital economic development.

We are fully committed to strengthening and enhancing our core competitiveness through dedicated research and development of technology. Our focus on utilizing homogenized materials and transitioning from plastic to paper and degradable film products provides us with a broader scope for sustainable development. In 2022, we applied for 259 patents and obtained 252 authorized patents. At present, we have 19 National High-tech Enterprises within the validity period. Anhui Zijiang Composite Material was rated as the "little giant" specialized and sophisticated enterprise by the Ministry of Industry and Information Technology (MIIT). The aluminum-plastic composite film for power lithium batteries R&D and commercialization project of Zijiang New Material was listed as a major strategic emerging industry project in Shanghai.

With a strong emphasis on precautionary measures, we actively pursued green development to establish a new foundation for sustainable growth. Aligning ourselves with China's carbon peak and carbon neutrality goals (China's 30·60 Decarbonization Goal), we remained steadfast in our commitment to the principles of green and low-carbon philosophy. This commitment spanned from green design and production to green procurement and recycling. Upholding the principle of "reduce, reuse, and recycle", we shared a common vision with our responsible customers and guided small and medium-sized customers towards achieving development in line with the circular economy, ultimately contributing to a more harmonious ecosystem. In 2022, we allocated RMB 38.3369 million towards environmental protection, representing a year-on-year increase of 40.25%. Our energy consumption per unit of output value decreased to 570.31 kWh/RMB 10,000, marking a year-on-year decrease of 3.58%. The photovoltaic area expanded to 93,219 m², with a significant year-on-year increase of 79.47%. Meanwhile, the Shanghai Preform Plant of Zijiang Enterprise won the title of the national green factory, and Guilin Ziquan Beverage won the title of the provincial green factory. Nanjing Zile Beverage has become our first subsidiary to achieve carbon neutrality.

Together with partners and our staff, we spared no effort in securing a promising and sustainable future. We remained steadfast in strengthening our safety system, ensuring the strict implementation of safety responsibilities, and using it as a foundation for our high-quality development. Recognizing the pivotal role of our employees in corporate growth, we empowered them through professional capacity building and career planning, while prioritizing their fundamental rights and interests. We continually enhanced their sense of belonging and happiness within the organization. In addition, we fostered mutually beneficial relationships with our partners, supporting each other's pursuit of high-quality development. While making suggestions for the sustainable development of the industry, we also fully carried forward the spirit of volunteer service, actively contributing to harmonious communities through charitable activities and volunteer services.

Recognizing that boundless scenery lies amidst towering mountains and distant roads, we continued to forge ahead with unstoppable momentum, even in the face of challenging circumstances. In 2022, we accomplished the objectives outlined in our three-year strategic roadmap and established a more rigorous new three-year indicator system to guide the implementation of our new round of strategic initiatives. Embracing the dawn of a new era, we are prepared to embark on an ambitious journey. Amidst picturesque landscapes of lush mountains and pristine waters, we remain committed to crafting an even more remarkable chapter in our story. With tenacity and determination, we are resolute in achieving a glorious triumph!

紫江责任说

Zijiang CSR Overview

走进紫江

About Zijiang Enterprise

上海紫江企业集团股份有限公司（股票代码：600210；股票简称：紫江企业）成立于 1988 年，于 1999 年 8 月在上海证券交易所挂牌上市。注册资本 1,516,736,158 元。在制造业领域，公司主营生产和销售 PET 瓶与瓶坯、塑料防盗盖、皇冠盖、塑料标签、塑料彩色印刷及复合包装、纸制品包装、饮料 OEM、喷铝纸及纸板、铝塑膜、BOPA 膜、工业用塑胶容器、镁合金产品及其他新型材料，在生产规模、技术水平、质量水平等方面处于国内行业领先地位。

Founded in 1988, Shanghai Zijiang Enterprise Group Co., Ltd. (stock code: 600210; stock name: Zijiang Enterprise) was listed on Shanghai Stock Exchange (SSE) in August 1999. The Company was incorporated with a registered capital of RMB 1,516,736,158. In the manufacturing industry, as an industry leader in production scale, technical capabilities, and quality in China, we produce and sell PET bottles and preforms, plastic closure, crown caps, plastic labels, plastic color printing and composite packaging, paper packaging, beverage OEM, metalized paper and paperboard, aluminum plastic film, BOPA film, plastic containers for industrial use, magnesium alloy products and other new materials.

Core values
核心价值观

「愿景」
Vision

To Become the Most Respected Company
打造成为最受尊敬企业

「价值观」
Value

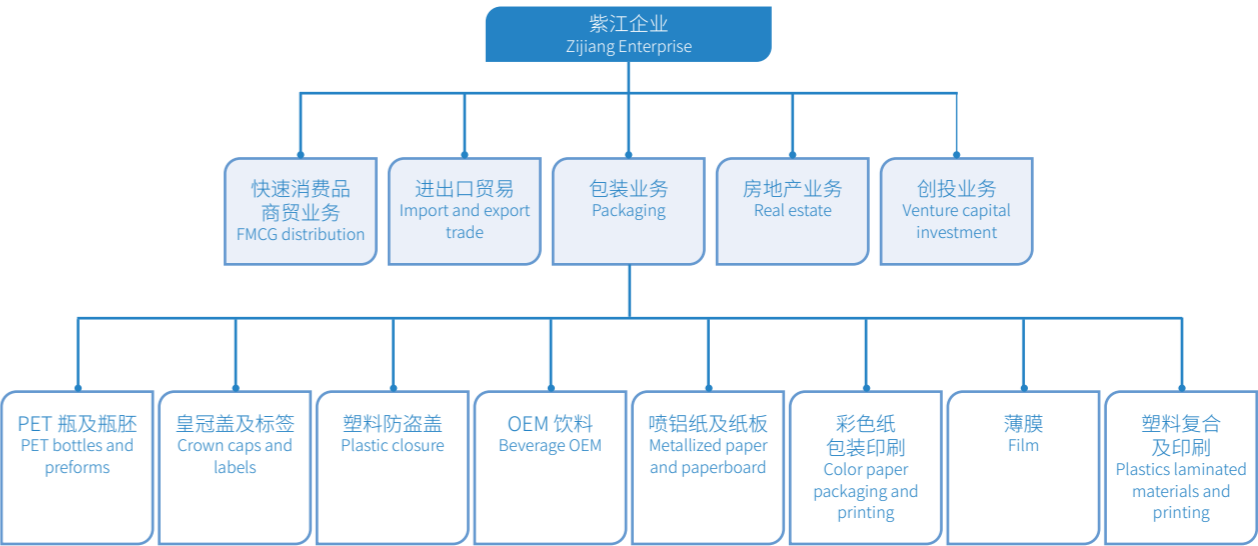
Devotion, Simplicity, Sustainability and Persistence
专注、简单、持久、执著

「座右铭」
Motto

Behave honestly, work sedulously
清清白白做人，兢兢业业做事

紫江企业自成立 30 余年以来，构建了以包装印刷业务为核心，以快消品经销、进出口贸易、房地产和创投业务为辅的产业布局，管控企业 100 余家。通过业务发展，形成了饮料包装产业、软包与新材料产业、商贸与物流产业的三大产业集群。

After over 30 years of development, Zijiang Enterprise has built an industry structure centered on packaging and printing, and supported by fast-moving consumer goods (FMCG) distribution, import and export trade, real estate and venture capital, with more than 100 affiliated companies under management. Our business operations grow into three industrial clusters, namely the beverage packaging cluster, the soft packaging & new material cluster, and the trade and logistics cluster.



紫江企业业务领域
Business segments of Zijiang Enterprise

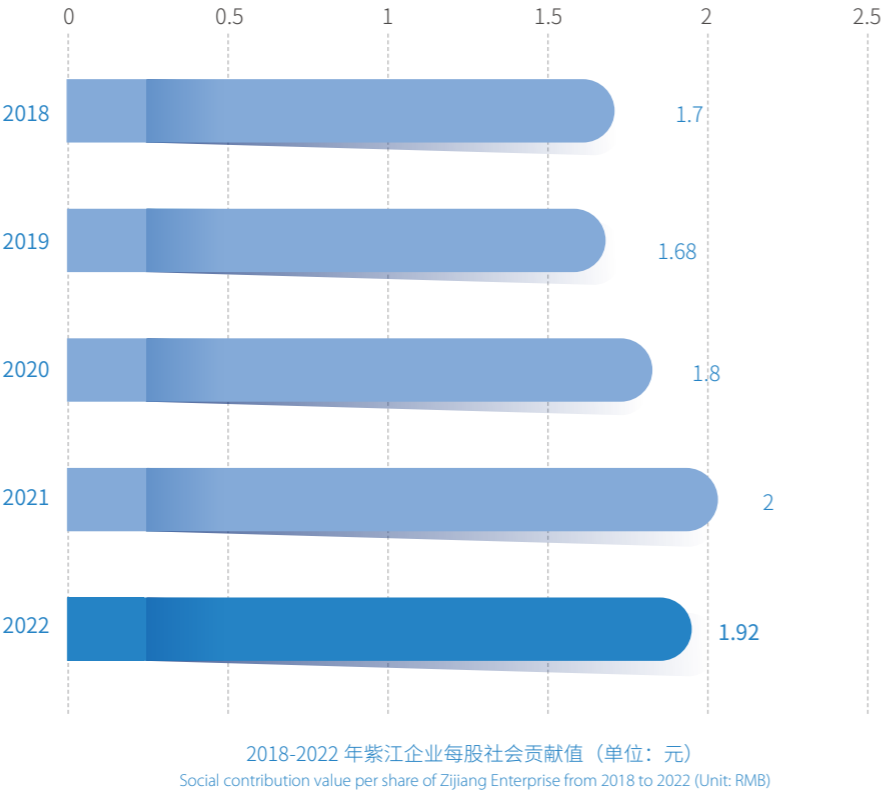


紫江企业三大产业集群
Three industrial clusters of Zijiang Enterprise

责任之智
CSR Insight

紫江企业在“清清白白做人，兢兢业业做事”的过程中，不断将可持续发展理念与企业运营进行有机融合，持续提升可持续发展管理水平，致力于携手利益相关方共同应对来自社会、环境等多方挑战，实现自身发展与社会和环境的价值共赢。

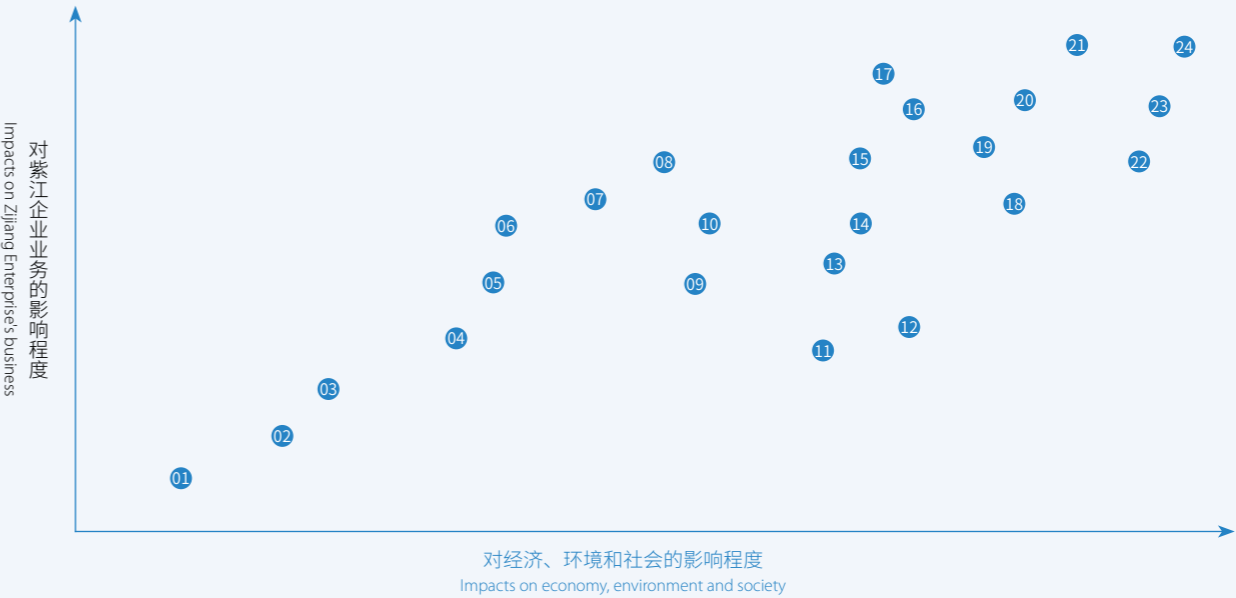
While implementing the philosophy of "Behave Honestly, Work Sedulously", Zijiang Enterprise keeps incorporating the sustainability concept into corporate operations and continuously improves sustainability management. Together with stakeholders, we are committed to coping with social, environmental and other challenges, with an aim to realize the win-win value of our self-development with society and the environment.



实质性议题分析
Materiality analysis

紫江企业从利益相关方角度出发，结合业务特点、中国国情国策、行业特性，通过识别、排序、审核、回顾等环节，从“对紫江企业业务的影响程度”和“对经济、环境、社会的影响程度”两个维度开展可持续发展实质性议题分析，确定实质性议题优先级，全面回应利益相关方诉求与期待，有针对性地开展可持续发展管理与实践。

From the perspective of stakeholders and taking into account the business and industry characteristics, national conditions and policies, we analyze the material sustainability topics from the two dimensions of "Impacts on Zijiang Enterprise's business" and "Impacts on economy, society and environment" across the process of identification, prioritization, verification and review. The priority of material topics is thus determined to response to the demands and expectations of stakeholders. Targeted sustainability management and practice will also be launched.



- | | | |
|--|--|---|
| 01 社区投资与参与
Community investment and engagement | 09 能源管理
Energy management | 17 客户关系管理
Customer relations management |
| 02 民主管理
Democratic management | 10 危险废弃物管理
Hazardous waste management | 18 应急管理
Emergency management |
| 03 福利与关爱
Benefits and care | 11 水资源管理
Water resource management | 19 产品创新
Product innovation |
| 04 包容与多元化
Inclusion and diversity | 12 固体废弃物管理
Solid waste management | 20 安全管理体系建设
Safety management system building |
| 05 吸引与留用
Attraction and retaining | 13 废气管理
Waste gas management | 21 应对疫情
COVID-19 response |
| 06 贡献行业发展
Contributions to industry development | 14 培训与发展
Training and development | 22 安全风险识别与管控
Safety risk identification and management |
| 07 精益 & 智能管理
Lean and intelligent management | 15 风险管理
Risk management | 23 道德与合规
Ethic and compliance |
| 08 供应链管理
Supply chain management | 16 碳排放管理
Carbon emission management | 24 产品质量安全管理
Product quality and safety management |

紫江企业实质性议题分析矩阵
Materiality matrix of Zijiang Enterprise

利益相关方参与
Stakeholder engagement

紫江企业通过多种渠道与利益相关方沟通，结合公司的实质性议题，了解和满足利益相关方期望与需求，建立完善、公开、透明的沟通机制，推动公司可持续发展管理工作的持续改进。

Zijiang Enterprise communicates with stakeholders through various channels. We strive to understand and meet the expectations and needs of stakeholders based on the material topics identified by the Company and our sound, open and transparent communication mechanism, so as to promote the continuous improvement of our sustainability management.



利益相关方 Stakeholders	 客户 Customers	 股东 Shareholders	 政府机构 Government agencies	 行业组织 Industry organizations	 合作伙伴 Partners	 员工 Employees	 社区 Communities	
	核心诉求 Core expectations	<ul style="list-style-type: none">◆ 提高客户竞争力 Improving customer competitiveness◆ 优质、绿色的产品与服务 Providing quality, green products and services	<ul style="list-style-type: none">◆ 良好的投资回报 Good returns on investment◆ 透明、及时的信息披露 Transparent and timely information disclosure	<ul style="list-style-type: none">◆ 合规经营 Compliance management◆ 增加就业机会 Increasing employment opportunities◆ 关注气候变化 Paying attention to climate change◆ 支持循环经济 Supporting circular economy	<ul style="list-style-type: none">◆ 贡献行业发展 Contributing to industry development◆ 推动行业良性竞争 Advancing healthy competition in the industry	<ul style="list-style-type: none">◆ 供应链的可持续发展 Sustainable supply chain◆ 互利共赢的伙伴关系 Mutually beneficial and win-win partnerships	<ul style="list-style-type: none">◆ 基本权益保障 Protection of employees' basic rights◆ 良好的成长空间 Creating opportunities for career development◆ 职业健康安全 Occupational health and safety	<ul style="list-style-type: none">◆ 增进民生福祉 Enhancing people's well-being◆ 改善社区环境 Improving community environment
主要沟通方式 Main communication methods	<ul style="list-style-type: none">◆ 客户拜访 Customer visits◆ 客服电话 Consumer service calls◆ 产品碳足迹核查 Product carbon footprint verification	<ul style="list-style-type: none">◆ 股东大会 General meeting of shareholders◆ 发布公告 Announcements◆ 电子邮件、平信邮寄 E-mail and ordinary letters	<ul style="list-style-type: none">◆ 接待投资者来访 Receiving visiting investors◆ 交易互动平台 Trading and interactive platforms◆ 投资者电话 Phone calls with investors	<ul style="list-style-type: none">◆ 政策指示 Policy instructions◆ 定期汇报 Regular reporting◆ 日常沟通 Daily communication◆ 环境信息披露 Environmental information disclosure	<ul style="list-style-type: none">◆ 参与行业标准制定 Participating in the formulation of industry standards◆ 行业交流大会 Industry exchange meetings	<ul style="list-style-type: none">◆ 招标采购会 Bidding and purchasing meetings◆ 业务交流与合作 Business exchange and cooperation	<ul style="list-style-type: none">◆ 职工代表大会 Workers' Congress◆ 敬业度调查 Employee dedication survey◆ 企业内刊 Internal publications	<ul style="list-style-type: none">◆ 爱心捐赠 Donations◆ 绿色公益活动 Environmental campaigns

责任之声
CSR Honors

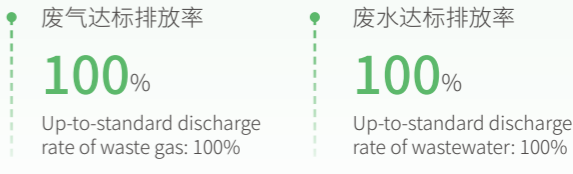
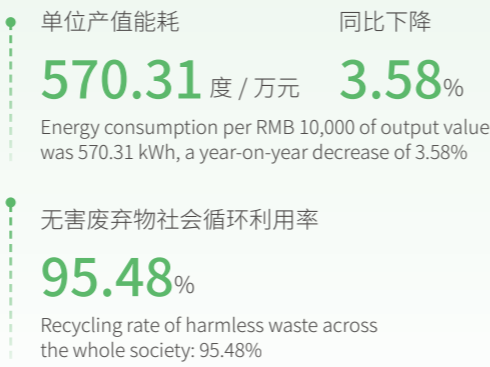


- 紫江企业入选上海制造业企业 100 强第 **33** 位、上海民营企业 100 强第 **46** 位、上海民营制造业企业 100 强第 **16** 位
Zijiang Enterprise was listed as the 33rd among the Top 100 Manufacturing Enterprises in Shanghai, the 46th among the Top 100 Private Enterprises in Shanghai, and the 16th among the Top 100 Private Manufacturing Enterprises in Shanghai
- 上海紫泉标签获“2022 中国标签印刷业品牌影响力 50 强排行榜”第 **2** 位
Shanghai Ziquan Label ranked second in the 2022 Top 50 Brand Influence List in Label Printing Industry of China
- 安徽紫江复合材料获工信部专精特新“小巨人”荣誉称号
Anhui Zijiang Composite Material was rated as the "little giant" specialized and sophisticated enterprise by the MIIT
- 紫江企业（母体工厂）和桂林紫泉饮料，分别荣获国家级绿色工厂以及省级绿色工厂荣誉称号
The Shanghai Preform Plant of Zijiang Enterprise won the titles of national green factories, and Guilin Ziquan Beverage won the titles of provincial green factories
- 上海紫江彩印获上海市专利试点企业荣誉称号
Shanghai Zijiang Color Printing won the title of Shanghai Municipal Patent Pilot Enterprise
- 紫江新材料获上海市院士（专家）工作站荣誉称号
Zijiang New Material won the title of Academician (Expert) Workstation
- 上海紫江彩印、成都紫江包装取得省市级“专精特新”企业认定
Shanghai Zijiang Color Printing, Chengdu Zijiang Packaging were authorized specialized and sophisticated enterprises at provincial and municipal level
- 紫丹印务入选首届长三角区域印刷业一体化发展升级重点名单
Zidan Printing was included in the first Key Upgrading List for Integrated Printing Industry Regional Development of the Yangtze River Delta
- 紫丹印务入选 2022 中国美妆包装企业百强
Zidan Printing was included Top 100 Beauty Cosmetics Packaging Enterprises in China
- 上海紫泉标签被评为中国印刷技术协会特别贡献集体
Shanghai Ziquan Label was rated as a special contribution group by China Printing Technology Association
- 上海紫江喷铝荣获烟草包装行业信息委员会“烟包品牌供应商”称号
Shanghai ZJMP won the title of Cigarette Pack Brand Supplier by Tobacco Packaging Industry Information Committee
- 南京紫乐饮料通过碳核算认证，成为紫江企业旗下的第一家实现碳中和的工厂
Nanjing Zile Beverage awarded carbon accounting certification and became the frist Zijiang Enterprise subsidiary to achieve carbon neutrality

责任之效
CSR KPIs



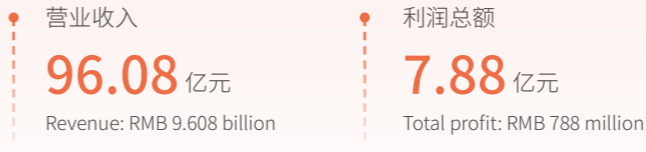
环境履责绩效
Environmental Performance



社会履责绩效
Social Performance



经济履责绩效
Economic Performance



责任之行

CSR Actions

2022 年 1 月

陕西紫泉饮料向咸阳市三原县红十字会捐赠饮料 300 箱和现金 3 万元，用于疫情一线。

In January 2022, Shaanxi Ziquan Beverage made a generous contribution to the Red Cross Society of Sanyuan County, Xianyang City in support of the frontline response to COVID-19. The donation included 300 cartons of beverages and a monetary contribution of RMB 30,000.

2022 年 3 月

上海紫泉标签获 “2022 中国标签印刷业品牌影响力 50 强排行榜” 第二位，并在食品饮料、日化、电子、酒类、服装鞋帽、物流标签六大细分领域的全国 5 强分榜单中跻身 “日化标签全国五强” “食品饮料标签全国五强” 两个分榜单榜首；上海紫江彩印投资建设的紫江高端医药包装及薄膜材料生产基地项目在马鞍山郑蒲港新区 2022 年重大项目签约大会上签约。

In March 2022, Shanghai Ziquan Label ranked second in the 2022 Top 50 Brand Influence List in the Label Printing Industry of China, and ranked the first place in Top 5 Daily Chemical Labels in China and Top 5 Food and Beverage Labels in China, which are two of the sub-lists for the six major subsectors, namely food and beverage, daily chemicals, electronics, alcohol, clothing, shoes and hats, and logistics labels; the Zijiang High-end Pharmaceutical Packaging and Film Materials Production Base Project invested and constructed by Shanghai Zijiang Color Printing was signed at the 2022 Major Project Contract-signing Conference in Zhengpugang New District, Ma'anshan City.

2022 年 4 月

紫江企业向上海市闵行区莘庄镇人民政府捐赠 1,000 万元人民币，用于应对疫情。

In April 2022, Zijiang Enterprise donated RMB 10 million to the People's Government of Xinzhuang Town, Minhang District, in response to the epidemic.

2022 年 3-6 月

面对突如其来的疫情，在城市全面封控的形势下，上海地区广大员工克服困难，以工厂封闭式生产的方式保产保供，成为默默奋斗在岗位上的最美 “逆行者”。

From March to June 2022, our dedicated employees in Shanghai demonstrated remarkable resilience and determination in the face of the sudden COVID-19 outbreak and the subsequent city-wide lockdown. They overcame difficulties and ensured the continuous production and supply of our goods by diligently working at their posts in sealed-off factories.

2022 年 8 月

紫江企业荣登 2022 上海企业 100 强第 95 位，并同时入选上海制造业企业 100 强第 33 位、上海民营企业 100 强第 46 位、上海民营制造业企业 100 强第 16 位。

In August 2022, Zijiang Enterprise was ranked the 95th among the 2022 Top 100 Enterprises in Shanghai, and was also selected as the 33rd among the Top 100 Manufacturing Enterprises in Shanghai, the 46th among the Top 100 Private Enterprises in Shanghai, and the 16th among the Top 100 Private Manufacturing Enterprises in Shanghai.

2022 年 11 月

上海紫江企业集团股份有限公司（母体工厂）获 “上海市绿色工厂” 称号。

In November 2022, Shanghai Zijiang Enterprise Group Co., Ltd. (Shanghai Preform Plant) was awarded the title of Shanghai Municipal Green Factory.

紫丹食品 “质量精准追溯” 等四个场景入选年度智能制造优秀场景；上海紫日包装 “高效轻量化塑料防盗瓶盖” 获 2022 年上海市高新技术成果转化项目认定；上海紫江彩印成为 2022 年上海市 “专精特新” 企业及专利试点单位；紫华科技获上海市高新技术企业认定；眉山紫江包装成为省级 “专精特新” 企业；成都紫江包装入选 2022 年 “四川省企业技术中心” 等；安徽紫江喷铝 “全息喷铝转移纸数字化车间” 获评为省数字化车间。

In February 2022, four scenarios including the "accurate quality traceability" of Zidan Food were rated as the Excellent Intelligent Manufacturing Cases of the year; Shanghai ZiRi Packaging's "high-efficient and lightweight plastic anti-theft bottle cap" was recognized as the 2022 High-tech Achievement Transformation Project in Shanghai; Shanghai Zijiang Color Printing became a specialized and sophisticated enterprise and patent pilot unit in Shanghai in 2022; Zihua Technology was recognized as a high-tech enterprise in Shanghai; Meishan Zijiang Packaging has become a provincial-level specialized and sophisticated enterprise; Chengdu Zijiang Packaging was selected as the 2022 Enterprise Technology Center of Sichuan Province; the "holographic metalized transfer paper digital workshop" of Anhui ZJMP was rated as the provincial digital workshop.

2022 年 2 月

紫丹印务被推举为全国环保纸产业专业委员会副主任委员单位。

In June 2022, Zidan Printing was elected as the deputy director of the National Professional Committee for the Environment-friendly Paper Industry.

2022 年 6 月

安徽紫江复合材料荣获工信部专精特新 “小巨人” 荣誉称号。

In July 2022, Anhui Zijiang Composite Material was rated as the "little giant" specialized and sophisticated enterprise by the MIIT.

2022 年 7 月

桂林紫泉饮料获评广西壮族自治区绿色工厂；紫丹食品与上海出版印刷高等专科学校签约共建国家新闻出版署智能与绿色柔板印刷重点实验室。

In October 2022, Guilin Ziquan Beverage was successively rated as Guangxi Zhuang autonomous region Green Factory; Zidan Food and Shanghai Publishing and Printing College signed a contract to build the Key Laboratory of Intelligent and Green Flexographic Printing of National Press and Publication Administration.

2022 年 10 月

成都紫江包装成功入选四川省服务型制造示范企业；上海紫泉标签获颁 “柔印版印刷分会成立 30 周年特别贡献集体” 称号。

In December 2022, Chengdu Zijiang Packaging was successfully selected as a demonstration enterprise of service-oriented manufacturing in Sichuan Province; Shanghai Ziquan Label was awarded the title of Special Contribution Collective on the 30th Anniversary of the Establishment of Flexographic Printing Association.

2022 年 12 月

专题 Spotlight

迎难而上保平安 齐心协力促发展

2022 年 3 月中旬，新冠疫情开始在上海大面积爆发。3 月底，整个城市被按下了暂停键并持续了 2 个月之久。交通及物流中断、人员居家、小区封闭、正常的商业活动停止，面对如此特殊的突发状况，公司管理层对事态发展进行了准确预判，做出了工厂“封闭管理”的正确决策，并连夜采购、安排各类生活、生产和防疫物资，储备各类保证员工健康的食品与药品，确保正常的生产秩序与员工生活。

一手抓疫情防控，一手抓保产保供，以迎难而上的勇气与担当守护员工与企业，用行动按下“生产稳定键”。

In mid-March 2022, the COVID-19 outbreak began to spread extensively in Shanghai. By the end of March, the entire city came to a halt and remained in a state of suspension for two months. With disruptions in transportation, logistics, people staying at home, and residential areas under lockdown, normal business activities came to a standstill. The company's management demonstrated their ability to accurately assess the situation and made the appropriate decision to implement a "sealed-off management" of the factory. To ensure the uninterrupted production and well-being of our employees, we promptly organized overnight procurement and secured various essential supplies for daily living, production, and preventive measures. Additionally, we stocked up on food and medicine necessary for maintaining the health of our employees.

With a strong commitment to COVID-19 control and a steadfast focus on maintaining production and supply, we protected our employees and the Company. We faced difficulties head-on, demonstrating fortitude and accountability, and took decisive actions to ensure stable production.

竭诚守护， 坚持生命至上 Putting life first with concrete protective measures

面对封控管理的严峻挑战，管理总部与各企业成立了应急管理领导小组，不分昼夜及时处置各类问题。总部应急管理领导小组始终严阵以待，实时关注疫情与政府管控政策变化，适时调控企业应对政策。

为了保障驻厂员工的健康，管理总部想方设法采购药品、防护服、抗原等急需物品，并确保生活物资、应急药品能及时送达生产一线。在封闭生产的 2 个月时间里，总部向员工发放抗原 8 万余支，每日监控员工健康状况。

各企业将消杀、核酸采样等防疫措施转化为专业化、人性化、常态化的运行机制，切实做好员工的身心健康保障工作，确保整体防疫工作不断不乱，筑牢疫情防控的坚实屏障。

In the face of the severe challenges posed by lockdown management, the Management Headquarters and all our subsidiaries set up their emergency management task forces. These task forces worked tirelessly, operating around the clock, to address a wide range of issues in a timely manner. The headquarters' emergency management task force remained vigilant, closely monitoring real-time developments regarding the COVID-19 epidemic and government control policies. They promptly adjusted our corporate policy responses to align with the evolving situation.

To guarantee the health of our employees stationed in the factories, the Management Headquarters made every effort to purchase items such as medicines, protective clothing, and antigens. We took necessary measures to ensure that daily supplies and emergency medicines were promptly delivered to the production frontlines. Throughout the two-month period of production in sealed-off factories, the headquarters distributed over 80,000 antigens to employees and diligently monitored their health status on a daily basis.

All our subsidiaries have successfully integrated epidemic response measures such as disinfection, sterilization, and nucleic acid sampling into a professional, humanistic, and routine operating mechanism. This integration has effectively safeguarded the physical and mental health of our employees, ensured the seamless and organized execution of our overall epidemic response efforts, and established a robust defense barrier for the prevention and control of COVID-19.

ADDRESSING DIFFICULTIES TO SECURE SAFETY AND DRIVING DEVELOPMENT WITH CONCERTED EFFORTS

关键绩效 Key performance



紫江企业下属企业入选上海市闵行区

第一批 400 家无疫企业 **18** 家

A total of 18 Zijiang Enterprise entities were included in the first batch of 400 COVID-19 free enterprises in Minhang District, Shanghai

紫江企业向上海市闵行区莘庄镇人民政府捐赠

1,000 万元

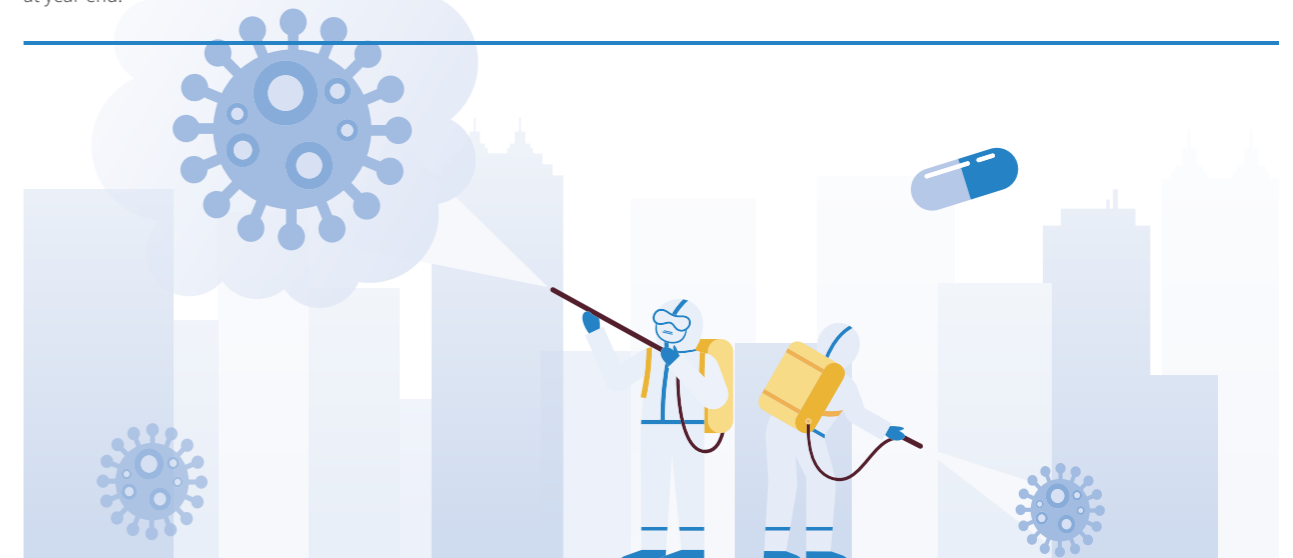
Zijiang Enterprise donated RMB 10 million to the People's Government of Xinzhuang Town, Minhang District, Shanghai

案例 | Case

紫江企业管理总部应对大面积感染开展培训 The Management Headquarters of Zijiang Enterprise carries out training on large-scale infections

2022 年 12 月 2 日，赶在国务院疫情防控政策重大调整之前，管理总部特意安排了 2 位有消杀管理经验的高管面向全国各区域 300 余名管理人员进行了消杀工作的线上专项培训，应对在年底放开管控后员工可能会出现的大面积感染，保证工厂运营。

On December 2, 2022, shortly before the major adjustment of the State Council's epidemic control policies, the Management Headquarters took proactive measures. Two executives with expertise in disinfection and sterilization were specifically assigned to conduct online training sessions on these topics for over 300 management personnel across different regions in China. This initiative was aimed at equipping our team with the necessary knowledge and skills to effectively respond to potential large-scale infections and guaranteeing the operation after the relaxation of control measures at year-end.



案例 | Case

紫江人全力应对疫情封控期间的突发情况

Zijiang Enterprise goes all out to respond to emergencies during the epidemic lockdown period

在上海紫泉饮料、瓶盖标签事业部及紫华企业出现重大疫情的时候，三家公司高层身先士卒冲在防疫第一线，24 小时不间断地转移感染员工就诊。在工厂发生大面积员工感染、社会医疗隔离资源枯竭的情况下，紫江企业董事会及时做出了决策——将员工健康放在首位，公司董事长将下属的酒店无偿提供给员工做隔离用，为员工提供良好的休养环境。

During a major COVID-19 outbreak that affected Shanghai Ziquan Beverage, the Crown Cap & Label Business Unit, and Zihua Enterprise, the senior executives of these three companies led the efforts at the forefront of the anti-epidemic response. They worked tirelessly, around the clock, to facilitate the transfer of infected employees for medical treatment. Faced with a widespread infection among employees in the factories and a shortage of social and medical quarantine resources, the Board of Directors of Zijiang Enterprise made a prompt decision: prioritizing the health of employees. The chairman of the Company offered subordinate hotels, as quarantine facilities, free of charge, to provide employees with a conducive environment for recovery.



紫江企业总经理郭峰及管理团队开启“马路办公”模式，与各企业负责人商议各项疫情防控预案工作。

Guo Feng, General Manager of Zijiang Enterprise, and his management team starts the "roadside office" mode to discuss multiple epidemic control plans with the heads of our subsidiaries.

在政府核酸检测资源不足的情况下，紫江企业最早向政府提议，培训内部员工自行采样送检。

In view of the insufficient COVID-19 testing resources of the government, Zijiang Enterprise took a proactive approach by suggesting to the government the idea of training internal employees to collect samples and send them for testing.



为保证客户正常供应，5 月 23 日，紫江企业管理总部寻找外部资源，包车将部分骨干员工送至安徽马鞍山进行 14 天的隔离。随后这些员工奔赴沈阳、广州等地，进行生产支援。

To ensure uninterrupted supply to our customers, on May 23, 2022, the Management Headquarters of Zijiang Enterprise made arrangements for a group of key employees to travel to Ma'an Shan, Anhui Province. These employees underwent a mandatory 14-day quarantine period before proceeding to provide support to our regional plants in Shenyang, Guangzhou, and other locations.



纸包装事业部后厨为全员准备每日水果。

The back kitchen staff of the Paper Packaging Business Unit prepares daily fruits for all employees.



紫东尼龙及时储备食品物资，确保封闭期间员工能够“吃饱”“吃好”。

Zidong Nylon stocks food to ensure that employees had "enough to eat" and could "maintain a nutritious diet" during the COVID-19 lockdown.



封闭生产期间，上海紫日包装在厂区内组织运动会，丰富员工生活。

During the period of production in sealed-off factories, Shanghai ZiRi Packaging organizes sports meetings at the factory sites to enrich the lives of employees.



保产保供， 按下生产“稳定键”

Pressing the "stable
production button" to
ensure production and
supply

紫江企业管理总部在特殊时期扛起保产保供的重任，竭力组织事业部内各区域企业调配资源保产保供，并成立企业物资保障协调平台，通过“上海——芜湖通道”物流模式，在上海周边城市对上海实行运输封控期间，解决生产经营、防疫物资、生活物资保障的物流问题。在紫江人的不懈努力下，客户等利益相关方的生产“稳定键”从未被松开。

During the special period, the Management Headquarters of Zijiang Enterprise assumed the crucial responsibility of ensuring production and supply. It intensified its efforts to mobilize resources from enterprises across different regions within the business units to ensure smooth production and supply operations. To achieve this, the headquarters established a corporate supply guarantee coordination platform. This platform facilitated logistics for production and operation, as well as the transportation of epidemic prevention supplies and daily necessities, utilizing the "Shanghai-Wuhu Channel" logistics mode during the transportation blockade to Shanghai from neighboring cities. Through the unwavering dedication of Zijiang Enterprise, the commitment to maintaining stable production for customers and other stakeholders remained steadfast.

关键绩效 Key performance



四五月份上海工厂成品发货量超过

21,620 吨

Shipment of finished goods from Shanghai factories exceeded 21,620 tons during April and May

协调解决办理各类运输通行证

26 批次

26 batches of various transportation passes coordinated and solved



容器包装事业部在做好疫情防控的同时，尽最大可能保证着各类 PET 瓶坯、瓶、桶等的市场供应，尤其是牛奶瓶、调味品、日用品等保供物资包装的生产供应。

While maintaining effective epidemic control measures, the Container Packaging Business Unit made every effort to ensure a stable market supply of various PET preforms, bottles, barrels, etc., especially the production and supply of packaging for supplies such as milk bottles, condiments, and daily necessities.



上海紫江彩印作为以岭药业生产的连花清瘟的包装供应商之一，自 3 月底开始，100 多位员工留守工厂 2 个多月，全力保障药品、食品、日化等包装，以及保春耕的农药包装的供应。

As a packaging supplier for Lianhua Qingwen, a sort of traditional anti-virus Chinese medicine, produced by Yiling Pharmaceutical, Shanghai Zijiang Color Printing demonstrated unwavering commitment. Over two months, starting from the end of March, more than 100 employees dedicated themselves to staying in the factory. They made tireless efforts to ensure a consistent supply of packaging materials for medicines, food, daily chemicals, and even pesticide packaging to support the crucial spring plowing season.

履责之声——来自于利益相关方的反馈 CSR voices - Feedback from stakeholders



“ロックダウンで大変ななか、ご対応・ご協力頂き誠にありがとうございます。（在上海封城这么严峻的形势下，贵司还是保证了我们的正常交货，感谢贵司的配合和支持。谢谢！）”

"Under the severe situation of Shanghai's lockdown, your company still guaranteed our normal delivery. Thanks for your cooperation and support. Thank you!"

“疫情面前，贵司与我司协同一致，和衷共济，调配一切自身及社会可用资源，在两个月的时间内，贵司克服重重困难、勇于担当，从专人对接处理业务、加急订单供应到寻找和调拨有资质的物流车辆等各个方面，完成多项‘不可能’的任务，最大限度减少了对我司的影响，也为申美工厂的顺利复工复产做好了准备，这是一项艰巨而了不起的工作。”

"In the face of the epidemic, your company and our company worked together to help each other and deployed all the resources available to us and the society. Over a span of two months, your company demonstrated remarkable resilience, overcoming numerous challenges and taking on responsibilities that seemed 'impossible'. From assigning dedicated personnel to handle business operations to expediting order supply and mobilizing qualified logistics vehicles, you accomplished multiple tasks that minimized the impact on our company and laid the groundwork for the successful resumption of work and production at the Shenmei factory. This collaborative effort was undoubtedly a challenging but truly remarkable achievement."

由于在疫情期间的杰出表现 Due to the outstanding performance during the epidemic

- 上海紫江彩印荣获美国艾利丹尼森全球优秀供应商奖
Shanghai Zijiang Color Printing won the Avery Dennison Special Recognition Award of Global Supplier Awards
- 紫丹印务荣获得物 2022 年度最佳响应奖
Zidan Printing won the 2022 Best Response Award
- 紫江国贸荣获欧莱雅北亚区 2022 年疫情期间最佳适应力奖
Zijiang Int'l Trade won the L'Oréal North Asia's 2022 Best Resilience Award During COVID-19
- 紫燕合金荣获深圳迈瑞生物医疗电子股份有限公司 2022 年最佳抗疫合作伙伴
Ziyan Alloy won the 2022 Best Anti-Epidemic Partner of Shenzhen Mindray Biomedical Electronics Co., Ltd.
- 沈阳紫日包装荣获中粮可口可乐 2022 年抗疫保供最佳合作伙伴突出贡献奖
Shenyang ZiRi Packaging won the 2022 Outstanding Contribution Award of Best Anti-Epidemic Partner of COFCO Coca-Cola



01 低碳高效发展 勾勒青山之色

在“双碳”背景下，包装企业的绿色、低碳、环保已成为可持续发展的必备条件。紫江企业始终秉承可持续发展理念，携手伙伴、尽己所能，推动公司生产经营活动中全流程的绿色低碳发展，坚持走绿色、精益、高效的发展之路。

To achieve carbon peak and carbon neutrality goals, packaging enterprises must prioritize green, low-carbon, and environmentally friendly practices. Joining hands with partners, Zijiang Enterprise advances green and low-carbon development to the best of its ability throughout production and operation activities as a part of its efforts towards green, lean and efficient development.

Pursuing Low-Carbon and Efficient Development to Protect the Green Ecology



重点举措 Key Initiatives

- ▷ 深耕绿色制造
Actively engaging in green manufacturing
- ▷ 构建绿色供应链
Building green supply chains
- ▷ 完善环境治理
Improving environmental governance
- ▷ 应对气候变化
Addressing climate change
- ▷ 深化节能减排
Deepening energy conservation and emission reduction
- ▷ 传递绿色理念
Delivering green concepts



关键绩效 Key Performance

- ▷ 环保治理投入同比增加 **40.25%**
Year-on-year increase of investment in environmental treatment: 40.25%
- ▷ 单位产值能耗同比下降 **3.58%**
Year-on-year decrease of energy consumption per unit of output value: 3.58%
- ▷ 光伏面积同比增加 **79.47%**
Year-on-year increase in rooftop PV area: 79.47%
- ▷ 分布式光伏覆盖率 **31.72%**
Coverage of distributed PV projects: 31.72%

6

清洁饮水和
卫生设施



6

CLEAN WATER
AND SANITATION



7

经济适用的
清洁能源



7

AFFORDABLE AND
CLEAN ENERGY



12

负责任
消费和生产



12

RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13

气候行动



13

CLIMATE
ACTION



15

陆地生物



15

LIFE
ON LAND



深耕绿色制造
Actively Engaging
in Green
Manufacturing

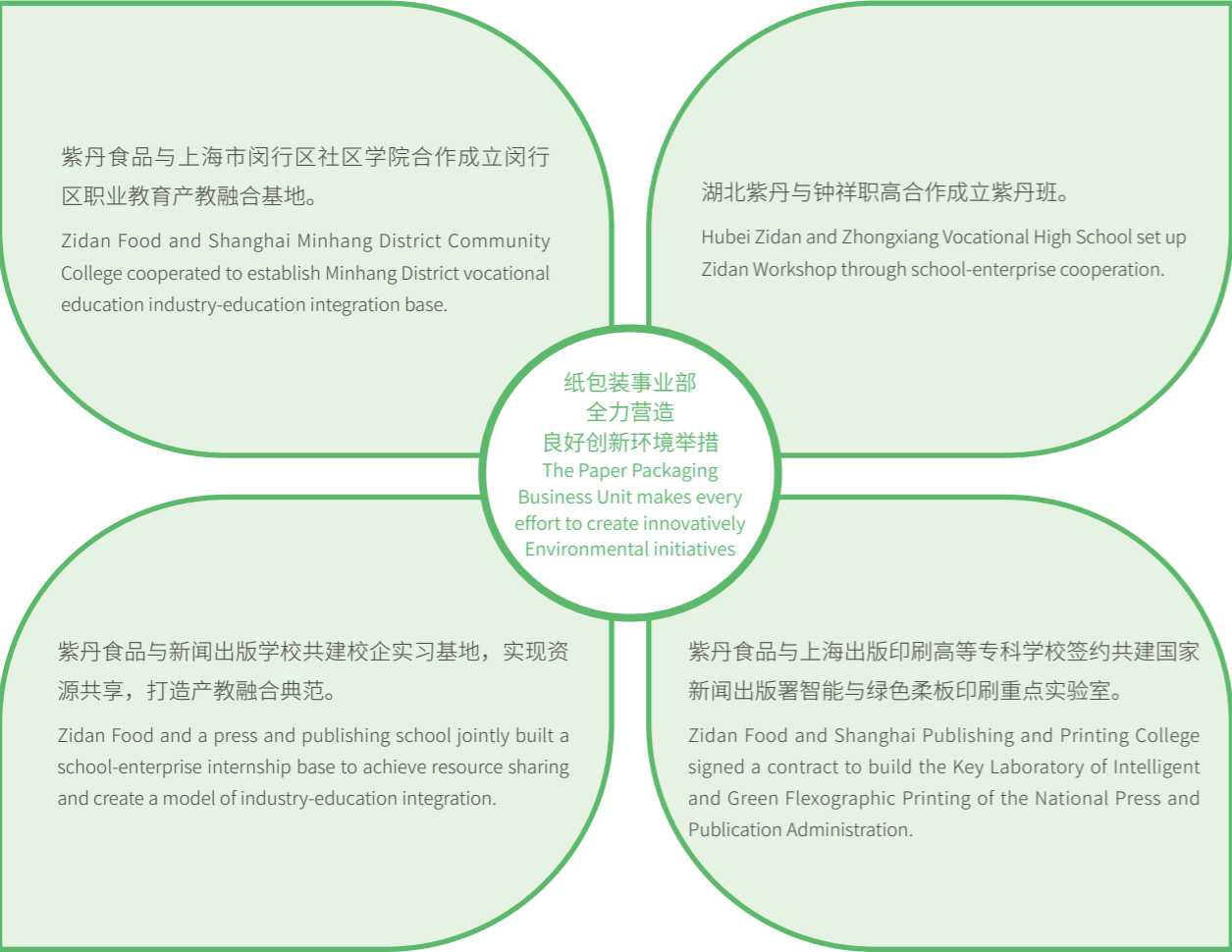
紫江企业作为快消品包装物的直接制造者以及责任客户的供应商，在为客户提供优质服务的同时，也肩负着以绿色包装材料与产品的研发与制造为客户提供更好的包装解决方案，最终为终端消费者提供绿色消费体验，共同践行对环境友好的责任。

As a direct manufacturer of FMCG packaging and a supplier of FMCG packaging and a supplier to customers with CSR requirements, Zijiang Enterprise not only provides quality services but also takes on the responsibility of researching, developing, and manufacturing green packaging materials and products. In doing so, we aim to offer better options and deliver a green consumption experience to end consumers, thereby ultimately delivering a green consumption experience to end consumers and fulfilling our responsibility to be environmentally friendly.

完善科创建设
Improving technological
innovation mechanism

我们持续加大对绿色产品的研发投入，并高度重视技术创新队伍的人才建设，持续完善科技创新管理与激励体系，并积极整合内外部资源，通过产学研用的有机结合，激活绿色发展“新引擎”。

We continuously increase investment in the R&D of green products, place great importance on talent cultivation within our technical innovation team, and improve the management and incentive system for scientific and technological innovation. Moreover, we proactively integrate internal and external resources to activate a "new engine" of green development through the organic combination of industry, academia, research, and application.



关键绩效
Key Performance

研发投入同比上升

7.54%

Year-on-year increase in R&D investment: 7.54%

申请专利数

259 项

259 patents applied

获得授权专利

252 项

252 patents authorized

新增国家级
高新技术企业认证

4 家

4 more subsidiaries certified as national high-tech enterprises

获上海市专利试点
企业荣誉称号

1 家

1 subsidiary won the title of Shanghai Municipal Patent Pilot Enterprise

获上海市院士（专家）
工作站荣誉称号

1 家

1 Shanghai academician (expert) workstation

- 软包动力锂电池用新型封装材料研发获评上海市高新技术成果转化项目自主创新十强、上海市高新技术成果转化项目百佳
New packaging materials for pouch lithium-ion traction battery was awarded the top 10 independent innovation project of high-tech achievement transformation projects and the top 100 high-tech achievement transformation projects in Shanghai
- 动力锂电池用铝塑复合膜研发与产业化项目名列上海市战略性新兴产业重大项目
The aluminum-plastic composite film for power lithium batteries R&D and commercialization project was listed as a major strategic emerging industry project in Shanghai
- 可回收全烯烃复合膜获得“上海市高新成果转化”认定
Recyclable all-olefin composite film was certified as a high-tech achievement transformation project in Shanghai



案例 | Case

紫江新材料深耕包装铝塑膜领域
Zijiang New Material delves into packaging aluminum plastic film domain

跟随新能源汽车行业的高速增长，紫江新材料专注于铝塑膜产品的细分领域，通过自主研发打破技术壁垒，实现产销量连年增长，并成为国家级专精特新“小巨人”企业。央视财经新闻联播在“两会财经观察”节目中对紫江新材料进行了报道。

Faced with the rapid growth of the new energy industry, Zijiang New Material took the initiative to venture into the packaging aluminum-plastic film sector and successfully broke the foreign monopoly in this field through independent research and development. This achievement has led to a continuous increase in production output and shipments, earning the company the recognition as the "little giant" specialized and sophisticated enterprise. Zijiang New Material's accomplishments were also highlighted in the financial observation program of the two sessions on the China Central Television (CCTV) financial channel.



央视财经新闻联播对紫江新材料进行采访
The news broadcast of CCTV financial channel interviews with Zijiang New Material

探索低碳设计
Innovating in low-carbon design

我们坚持聚焦低碳产品的研发、生产和推广，不断指导和支持各下属企业结合自身产品特性，创新绿色生产技术，探索制造更低碳的产品，为自身和客户应对气候变化的行动增添更多助力。

We always emphasize the R&D, production and promotion of low-carbon products. We provide guidance and support to our subsidiaries in exploring the manufacturing of lower-carbon products by leveraging the unique characteristics of their own products and adopting innovative green production technologies, to prepare ourselves and customers for addressing climate change.



优可杯 UCup，相较无塑纸杯和 PE 淋膜杯，通过水性涂层纸杯，替代 PE 淋膜纸杯，热杯可减少碳排放 13.3%，冷杯可减少碳排放 22.0%。同时，该技术获得 CPiS “2022 中国包装创新及可持续发展大奖”。

UCup water-based coated paper cups can reduce carbon emissions by 13.3% for hot beverage cups and 22.0% for cold beverage cups compared to plastic-free cups and PE laminated cups. This technology won the CPiS "2022 China Packaging Innovation and Sustainable Development Award".



水性涂层纸袋，相较 PE 淋膜纸，采用涂层热封纸，可减少碳排放 27.4%。同时，水性涂层纸张可回收率超过 99%，水性涂层纸杯可回收率超过 98.8%。

Water-based coated paper bags, compared to PE laminated paper, reduces carbon emissions by 27.4% with coated heat sealable paper. Meanwhile, more than 99% of water-based coated paper and 98.8% of water-based coated paper cups can be recycled.



上海紫泉标签使用 10,300 吨可回收的 PETG 材料代替可能会污染大气和危害人体健康的 PVC 材料。其中，466.5 吨 rPETG（社会回收料）用于可乐 SCMC 产品和喜茶产品，相当于碳排放减少 1,007.64 吨。

Shanghai Ziquan Label has made significant efforts to use recyclable PETG material, totaling 10,300 tons, as a replacement for PVC material, which carries potential atmospheric pollution and health risks. Of these, 466.5 tons of post consumer recycled material rPETG have been used in Coke SCMC products and HEYTEA products, which is equivalent to a carbon emission reduction of 1,007.64 tons.

案例 | Case

紫江企业坚持以绿色产品赋能美好生活
Zijiang Enterprise empowers better life with green products

紫江企业高度重视绿色产品开发，不断探索更环保的产品，促进可持续消费，让绿色成为生活新风尚。2022 年 7 月，紫华科技在第 29 届生活用纸国际科技展览会向利益相关方全面展示纸包膜、超柔包膜、超低克重透气膜等最新研发的环保类创新产品。2022 年 10 月，纸包装事业部在 CPiS2022 展会及论坛上，同与会嘉宾分享“水性涂层包装”等绿色创新成果。以绿色赋能美好生活的最新绿色产品，得到观展者的充分认可。这也将进一步坚定紫江企业迈向绿色发展的信心与决心。

Zijiang Enterprise places significant emphasis on the development of green products, aiming to promote sustainable consumption and cultivate it as a popular lifestyle. In July 2022, Zihua Technology showcased its latest environmentally friendly innovations, such as paper wrap film, ultra-soft wrap film and ultra-low-weight breathable film to stakeholders at the 29th China International Disposable Paper Expo. In October 2022, the Paper Packaging Business Unit presented its "water-based coated packaging" and other green innovations to attendees at the CPiS2022 exhibition and forum. These latest green products, which enable a better life with green products, were highly recognized by the visitors and further reinforced Zijiang Enterprise's commitment and confidence in pursuing green development.



紫华科技在生活用纸国际科技展览会向观展者介绍绿色产品
Zihua Technology introduces green products to visitors at the China International Disposable Paper Expo



纸包装事业部携多项绿色产品亮相 CPiS 2022 展会
The Paper Packaging Business Unit presents various green products at CPiS 2022

聚焦减量设计
Committed to design for using less packaging

减量化是发展循环经济的重要路径和优先选项。我们坚持将减量化理念融入到从产品设计到生产制造的全流程，在探索更少的资源使用同时，进一步降低生产成本，实现产品市场竞争力的有力提升。

As reduction is an important approach and preferred approach in the circular economy, we firmly uphold the concept of reduction throughout product design to production and manufacturing. By seeking ways to minimize resource consumption, we also reduce production costs and improve the competitiveness of our products in the market.



“高效轻量化塑料防盗瓶盖”获 2022 年第 1 批上海市高新技术成果转化项目认定
The "high-efficient and lightweight plastic anti-theft bottle cap" was selected into the first batch of the 2022 High-tech Achievement Transformation Project in Shanghai

上海紫江彩印
Shanghai Zijiang Color Printing

宝洁云感净颜包装膜通过 T/CRRA 0302-2020 塑料制品易回收易再生设计评价。

P&G smooth and pure series packaging film passes T/CRRA 0302-2020 design evaluation for easy recycling and renewability of plastic packaging products.

上海紫泉包装
Shanghai Ziquan Packaging

选购二次冷轧工艺的减薄铁，为百威生产盖子约 7,000 万个，节约马口铁 18.2 吨。

Selecting thinned iron processed with double cold-rolling to produce approximately 70 million caps for Budweiser, saving 18.2 tons of tin.

上海紫泉标签
Shanghai Ziquan Label

在啤酒行业 6 罐装包装中应用“PE 高透明热收缩彩膜轻量包装方案”，全年节约 PE 树脂原料 52.2 吨。

Applying "PE high transparent heat shrinkable color film lightweight packaging" for 6-can beer set, saving 52.2 tons of PE resin raw materials in a year.

纸包装事业部
Paper Packaging Business Unit

开发无塑环保精品瓦楞礼盒，较传统的双灰板材料节约 20% 以上。

Developing plastic-free and environmentally friendly corrugated gift sets, which can save more than 20% of materials compared to traditional gray board.

落实减量设计成果转化
Put design of less packaging into real use

案例 | Case

PET 瓶坯的“瘦身”轻量化之路
PET bottle preforms' road to lightness

2022 年，容器包装事业部持续聚焦 PET 瓶坯轻量化，针对 7 款规格瓶坯进行轻量化改造，实现平均减重 1.53 克。此外，经改造后，按 6 款规格瓶坯的年产量 43,527.45 万只计，容器包装事业部可节约 PET 原料 512.38 吨，减少 VOCs 排放 119.74 吨，减少二氧化碳排放 564.34 吨。

In 2022, the Container Packaging Business Unit continued to focus on lightweighting PET bottle preforms, specifically targeting seven types of bottle preforms for lightweighting modifications. This effort resulted in an average weight reduction of 1.53 grams. In addition, based on an annual output of 435,274,500, across six types of bottle preforms, the Container Packaging Business Unit was able to save 512.38 tons of PET raw materials, reduced 119.74 tons of VOCs emissions and 564.34 tons of CO₂ emissions.

加速成果落地
Accelerating application of results

我们坚持创新引领、深耕先进技术，依托于完善的技术创新体系，加强行业前瞻和关键核心技术研发，携手客户等利益相关发方加快科技成果转化，推进技术成果的产业化和市场化，推动公司绿色创新实力和影响力再上新台阶。

We uphold innovation leadership and cultivate advanced technology. To advance our green innovation strength and influence to a new stage, we strengthen our industry foresight and focus on the R&D of key core technologies based on our sound technological innovation system. By collaborating with our customers and other stakeholders, we accelerate the application of technological achievements, and promote the industrialization and marketization of technological achievements.

关键绩效
Key performance

纸包装事业部的纸杯业务实现市场化生产，
销售收入超过 **5,000** 万元

The Paper Packaging Business Unit's paper cup production achieves marketization, resulting in sales revenue of over RMB 50 million

上海紫江彩印的可回收包装膜卷和预制袋实现产业化，
销售收入超过 **8,000** 万元

Shanghai Zijiang Color Printing's recyclable packaging film rolls and pre-made bags realize industrialization, achieving sales revenue of over RMB 80 million



完成元气森林 PET 温变标签和可口可乐 OPP 冬奥会温变标签销售。
Complete the sales of Chi Forest PET thermal labels and Coca-Cola OPP Winter Olympics thermal labels.



针对可变二维码 PE 彩膜，自主开发创新的干扰纹技术（防盗扫），得到可口可乐技术中心采纳并向行业推广。
For variable QR code PE color film, our self-developed disturbance pattern technology (anti-theft scanning) has been adopted by Coca-Cola Technical Center and promoted to the industry.



瓶盖标签事业部历经八年努力，获得国家药审中心正式认证，实现药包瓶盖零的突破，正式具备量产条件，接到首批大批量订单 1,000 万只。
After eight years of efforts, the Crown Cap & Label Business Unit was granted the official certification of Center for Drug Evaluation, National Medical Packaging Association (NMPA), achieving a groundbreaking breakthrough in the mass production of pharmaceutical caps and receiving its first batch order of 10 million pieces.



二维码皇冠盖在越南成功上市。
QR code crown cap is successfully marketed in Vietnam.

案例 | Case

食品口感“可视化”的标签彩印工艺
Our label color printing technology "visualizes" flavor of food

上海紫泉标签为雀巢丝滑拿铁设计的塑料标签中使用了珠光油墨，克服了在制版和印刷上的工艺难点，帮助客户体现咖啡的浓郁和丝滑。上海紫江彩印为家乐氏“酸奶爱芝士”产品包装采用了软包装印刷工艺，通过局部上光工艺展现柔和质感和金属质感的碰撞效果。得益于技术的创新性，上海紫泉标签、上海紫江彩印分别荣获第八届“KellyOne·陕西北人杯”一等奖和技术创新奖。

Shanghai Ziquan Label successfully overcame technical challenges in plate making and printing and designed a plastic label using pearlescent ink for Nestle's Smooovlatte to reflect the richness and smoothness of the coffee. Shanghai Zijiang Color Printing used soft packaging printing technology for Kellogg's "Yogurt Loves Cheese" products, giving customers a visual impact of soft and metallic texture through a partial varnishing process. Thanks to these innovations, Shanghai Ziquan Label and Shanghai Zijiang Color Printing were awarded the first prize and the technical innovation prize of the 8th "KellyOne-Shananxibeiren Cup" respectively.

持续精益增效
Continuing lean and efficient management

我们持续强化“年初规划、年中交流、过程跟踪、价值兑现审计”系统化的精益管理模式，通过与下属各企业组织进行了精益六西格玛培训、鼓励员工积极参与“金点子”项目，培养全员解决问题的能力、提升生产组织方式创新和人力资源的效率，为高质量生产经营营造良好的创新环境。

We continue to strengthen the systematic lean management model of "the planning at the beginning of the year, mid-year communication, process tracking, and value fulfillment audit", and promote Lean Six Sigma training across our subsidiaries to encourage employee participation in the Golden Ideas program. This initiative aims to foster problem-solving skills among all employees and enhance the efficiency of production organization and human resources, to create a sound innovative environment for high-quality production and management.



案例 | Case

湖北紫丹构建竞争性成本模型，打造精益工厂
Hubei Zidan develops a competitive cost model to build a lean factory

2022 年，湖北紫丹坚持以精益管理模式为基础，深入分析现有产品与工艺，不仅通过一人多岗、一岗多能，发挥员工“1+2”高效能，还通过整合设备，引进油墨配色系统，调整工艺与流程、包装方式、纸箱规格，缩短工艺流程，实现成本下降，为推动精益工厂建设再添新力。

Hubei Zidan adheres to lean management and conducts in-depth analyses of existing products and techniques. By having one employee handling multiple positions and being familiar with a variety of technologies, the company brings out the "1+2" high performance of employees. Meanwhile, Hubei Zidan streamlined processes and reduces costs by integrating equipment, implementing an ink color matching system, and adjusting technology, workflow, packaging methods, and carton sizes. These initiatives inject new impetus into the development of a lean factory.

案例 | Case

紫江企业全面启动“六西格玛培训项目”帮助员工学以致用
Zijiang Enterprise launches "Six Sigma Training Program" to make the best of what they have learned

2022 年，紫江企业共创建 11 个六西格玛改善项目，并把项目作为培训课程的实践部分，让学员在学习六西格玛理论知识的同时，进一步探讨如何降低原材料损耗率、提高产品合格率、优化资源利用效率等企业经营和业务开展中实际存在的问题，用创新管理的理念助力实现价值兑现。

In 2022, Zijiang Enterprise set up 11 Six Sigma improvement projects and integrated them as the practice-oriented part of the training course. This approach allowed participants to not only acquire theoretical knowledge of Six Sigma but also actively explore methods to reduce raw material loss, enhance product qualification rates, optimize resource utilization efficiency, and address other practical challenges encountered in the company's operations and business development, supporting value delivery with innovative management concepts.

序号 No.	事业部 / 企业 Business Unit/Subsidiary	项目名称 Project
1	容器包装事业部 Container Packaging Business Unit	降低原料损耗率 Reducing the raw material loss rate
2	瓶盖标签事业部 Crown Cap & Label Business Unit	降低变形盖投诉次数 Reducing complaints about deformed crown-cap
3	瓶盖标签事业部 Crown Cap & Label Business Unit	提高上海工厂 OPP 产品合格率 Improving the passing rate of OPP products in Shanghai factories
4	饮料 OEM 事业部 Beverage OEM Business Unit	降低箱包机喷胶量 Reducing the glue spraying volume of traypacker machine
5	纸包装事业部 Paper Packaging Business Unit	降低化妆品系列产品不良率 Reducing the defective rate of cosmetic products
6	纸包装事业部 Paper Packaging Business Unit	降低紫丹包科质量损失率 Reducing the quality loss rate of Zidan Packaging Technology
7	纸包装事业部 Paper Packaging Business Unit	提升紫丹食品打样一次合格率 Improving the first-pass yield of sample of Zidan Food
8	紫华企业 Zihua Enterprise	提升印刷类产品产成率 Improving the productivity of printing products
9	上海紫江喷铝 Shanghai ZJMP	提升巴基斯坦印字产品合格率 Improving the passing rate of printed products in Pakistani script
10	上海紫日包装 Shanghai ZiRi Packaging	提升 A1881 盖原料投入产出率 Improving the input-output ratio of raw materials for A1881 closure
11	上海紫江彩印 Shanghai Zijiang Color Printing	降低 GMP 车间 K97、K98 空调风机每日用电量 Reducing the daily electricity consumption of K97 and K98 air conditioner fans in GMP workshop

数字化助力能效提升

Facilitating energy efficiency with digitalization

我们持续推动数字化转型，完善数字化管理，强化智能管理工具与业务模式深度融合，提高工厂数字化和自动化的水平，助力提升物料流动、工序工单、经营过程等方面的能见度，进一步加强精益化管理的优势，全面促进企业提质增效。2022 年，紫华科技获两化融合管理体系新标 AA 级评定。

To promote digital transformation and increase the level of digitization and automation in factories, we have improved digital management, and further integrated intelligent management tools into business models. By improving visibility into material flow, processes, work orders, and overall business operations, we are able to leverage the benefits of our lean management approach and promote comprehensive improvements in quality and efficiency. In 2022, Zihua Technology receives an AA rating in the new standard for the Integration of informatization and Industrialization Management System.

案例 | Case

容器包装事业部全面推进运营智能信息管理中心建设
Container Packaging Business Unit comprehensively promotes the construction of the intelligent operation information management center

2022 年，容器包装事业部建成运营智能信息管理中心，实现全国 44 家工厂主要设备和辅助设备的联网。该中心通过对设备效率、产品质量、质量过程控制、设备档案管理、库存管理等进行实时在线监控和数据分析，大幅度提升运营效率和产品质量，减少库存品的资金占用。

In 2022, the Container Packaging Business Unit built an intelligent operation information management center, which effectively connects and networks major and auxiliary equipment across our 44 factories nationwide. The center significantly improves operational efficiency and product quality and reduces capital usage of inventory items through real-time online monitoring and data analysis on equipment efficiency, product quality, quality process control, equipment file management, and inventory management.



容器包装事业部瓶坯吹瓶与注塑生产设备分布监控
The Container Packaging Business Unit's monitoring of the distribution of bottle blowing and injection production equipment

案例 | Case

紫丹食品全面推动智能信息化建设，助力复工复产的探索实践
Zidan Food promotes intelligent informatization comprehensively to facilitate the resumption of production

作为国内最具规模的食品级纸包装生产企业之一，紫丹食品自 2002 年开始实施 ERP 信息化系统，持续优化自身的信息化建设等，已成功实现信息流、物流和资金流的三流同步合一，保障生产经营过程中资源高效协同。2022 年，紫丹食品印刷生产线在线检测、数据采集及自动化输送的智能化建设项目被认定为“2022 年上海市促进文化创意产业发展财政扶持资金成果资助类项目”。这些数字化手段的探索与积累也为疫情时期企业正常生产运营发挥了积极作用。

As one of the largest food paper packaging manufacturers in China, Zidan Food has been at the forefront of implementing the ERP information system since 2002. Zidan Food have continuously optimized our informatization efforts, successfully integrating information flow, material flow, and financial flow to enhance resource coordination and efficiency in our production and operation processes. In 2022, Zidan Food intelligent construction project for online inspection, data collection, and automated transportation of the printing production line was recognized as a "fund project for results" of 2022 Financial Support Funds for the Development of Cultural and Creative Industries in Shanghai. Moreover, the exploration of these digital tools and the related experience has promoted the normal production and operation of the company during the COVID-19 epidemic.

构建绿色供应链

Building Green Supply Chains

我们始终将兼顾经济效应和环境效应作为供应链体系管理的重要原则，坚持以制度为保障，以精益管理为实现方式，不断完善采购制度和标准，加强物流包装低碳建设，全方位打造绿色供应链。

We prioritize the balance of economic and environmental impacts as a crucial principle in our supply chain system management. With a robust system as our foundation and lean management as our approach, we continuously improve the procurement system and standards, and strengthen the low-carbon construction of logistics and packaging, to foster the development of a green supply chain in all aspects of our operations.

凝聚绿色共识

Building consensus on green practices

我们秉持可持续发展理念，建立健全供应商管理体系，并借助“紫江企业供应链协同管理平台”，帮助供应商了解公司在环境方面的要求，并识别当前机遇与风险，从而更好地引导供应商开展履责实践，为打造责任共同体提供有力支持。

We work to establish a sound supplier management system based on the concept of sustainable development. Through the Zijiang Enterprise Group Supply Chain Collaborative Management Platform, we communicate our environmental requirements to our suppliers and identify potential opportunities and risks. By doing so, we enable our suppliers to enhance their CSR efforts and contribute to the development of a community focused on shared responsibility.

案例 | Case

紫丹印务携手供应商合作共同推动以纸代塑
Zidan Printing works with suppliers to replace plastic with paper

为响应国家“限塑令”的要求，将市场“以纸代塑”的需求迅速传递给供应商，推动供应商加快新材料的开发工作，紫丹印务与供应商合作研发了新型水性涂层纸张。2022 年，通过扩宽采购渠道，使该产品得到了进一步推广，规模化使用大幅提升。

In response to the "plastic ban" in China and the growing market demand for "paper instead of plastic", Zidan Printing cooperated with suppliers to develop a new water-based coated paper, facilitating suppliers to develop new materials. In 2022, the company popularized the use of this product by diversifying its procurement channels, leading to a substantial increase in its adoption.

推进绿色采购

Promoting green procurement

我们深刻践行绿色采购理念，持续优化绿色采购制度，不断推进无纸化采购系统建设，实现线上审批和采购订单下达。同时，继续选择有体系保障、重视社会责任的供应商开展合作，加速供应链环境管理向上游延伸。

To deeply implement the concept of green procurement, we are continuously enhancing our green procurement system and developing a paperless procurement system, which enables us to approve and deliver purchase orders online. At the same time, we maintain our commitment to selecting suppliers who have established institutional guarantees and prioritize social responsibility to extend the environmental requirements to the upstream supply chain.

绿色采购举措
Green procurement measures

Paperless procurement process
采购流程无纸化

► 纸包装事业部在紫丹食品工厂两家主要原纸供方中试行线上无纸化操作
The Paper Packaging Business Unit trials online paperless operations for two major suppliers of raw paper at the Zidan Food factory

► 容器包装事业部使用“云客户关系管理系统”，实现订单、送货单无纸化
The Container Packaging Business Unit realizes paperless orders and delivery notes through Online Customer Relationship Management System

► 上海紫泉标签引进 MRO 系统，提升采购效率
Shanghai Ziquan Label introduces MRO system to improve procurement efficiency

► 沈阳紫日包装以企业微信为依托，实现采购审批电子化
Shenyang ZiRi Packaging digitalizes procurement approval through WeCom (enterprise WeChat)

绿化包装运输
Greening the transportation of packaging

绿色运输是企业实现绿色低碳转型的重要一环,为减少储运环节对环境产生的污染,我们坚持使用更环保的包装材料,探索更合理的运输方式,以便更有效地提高运输效率,推动节能减碳,实现多方共赢。

Green transportation is an important aspect for enterprises to realize green and low-carbon transformation. We actively seek out environmentally friendly packaging materials and explore more suitable transportation methods to minimize pollution associated with storage and transportation processes. By doing so, we promote energy conservation and carbon reduction while enhancing transportation efficiency, ultimately creating a win-win situation for all stakeholders involved.

案例 | Case
上海紫日包装物流运输的绿色新路径
Shanghai ZiRi Packaging's brand new green approach for logistics and transportation

为解决“满车去、空车回”，综合运输效率不经济的问题，上海紫日包装携手客户，即上海申美饮料食品有限公司与德诺物流公司就成品运输达成合作。上海紫日包装将产品由承运商发货到客户处后，再同车运输客户产品，不仅提高运载效率，还进一步减少燃油浪费。2022 年 1-10 月，上海紫日包装上海工厂每万只瓶盖的销售运输单耗累计下降 18%。

Shanghai ZiRi Packaging collaborates with its customer, Shanghai Shenmei Beverage and Food Co., Ltd., and Deno Logistics Company to address the issue of "trucks traveling full on one route and returning empty", which is uneconomical in terms of comprehensive transportation. In response, Shanghai ZiRi Packaging adopts a strategy where products are transported from the carrier to the customer, and then the customer's products are transported in the same vehicle. This approach not only improves transportation efficiency but also reduces fuel waste. From January to October 2022, the Shanghai ZiRi Packaging factory achieved a cumulative 18% reduction in unit consumption for sales and transportation per 10,000 caps sold.



运输车辆是客户的浦东工厂卸货，随后将载满客户产品送往其闵行仓库
After the transport vehicles are unloaded in the customer's Pudong factory, they are reloaded with full of products and sent to the customer's Minhang warehouse

Procurement of green products
采购产品绿色化

► 紫东尼龙在采购新设备及灯具时全部选择二级能效以上的产品
Zidong Nylon selects products with Grade 2 or higher energy efficiency when purchasing new equipment and lamps

► 紫华企业在纸芯管生产过程中采购专用淀粉胶等环保材料
Zihua Enterprise purchases special starch adhesive and other environmentally friendly materials during the production of paper core pipes

► 上海紫江喷铝优先选择已通过 ISO 14000 认证的供应商
Shanghai ZJMP gives preference to ISO 14000 certified suppliers

► 紫江新材料要求供应商提供第三方限制使用有害物质检测报告，并签署《限制使用物质管理规定》接收函和《欧盟 REACH 新增 SVHC 物质的调查表》
Zijiang New Material requires suppliers to provide third-party reports on the restricted hazardous substances, and sign the letter of acceptance for the *Restricted Substances Management Regulations* and the *Questionnaire on the Updated EU REACH SVHC List*

包装回收利用 Packaging recycling	包装材料替代 Packaging material replacement	物流模式优化 Optimizing logistics patterns
<div>■ 上海紫江彩印回购挡板 9,000 块，封板 968 块，H/U 型支架 5,700 个； Shanghai Zijiang Color Printing repurchased 9,000 pieces of baffles, 968 pieces of sealing plates and 5,700 pieces of H/U type brackets;</div> <div>■ 紫江新材料回收利用木夹板约 16,500 块，塑料托盘 1,668 块，减少塑料投入约 33 吨； Zijiang New Material recycled about 16,500 pieces of wood plywood and 1,668 pieces of plastic pallets, reducing plastic consumption by about 33 tons;</div> <div>■ 上海紫泉包装产品包装从小纸箱换大纸箱、上海紫泉标签油墨桶小桶换大桶，减少危废产生量 20 吨 / 年。 Shanghai Ziquan Packaging replaces small cartons with large ones, and Shanghai Ziquan Label replaces small ink drums with large ones, reducing hazardous waste by 20 tons/year.</div>	<div>■ 紫江新材料采用吨桶包装并内置塑料袋，替代胶粘剂原先使用的小桶装，减少危废塑料桶约 35,380 个。 Zijiang New Material uses pallet tank with built-in plastic bags to replace the original small drums used for adhesives, reducing the number of hazardous waste plastic drums by about 35,380.</div>	<div>■ 容器包装事业部用槽罐车直送切片，节约包装费约 38 万元，以及打包、装卸、投料等人工费约 6.3 万元； The Container Packaging Business Unit delivers PET RESIN directly by tank car, saving about RMB 380,000 in packaging costs, and about RMB 63,000 in labor costs for packing, loading and unloading, and feeding;</div> <div>■ 上海紫江彩印实现汽运运输向铁路运输转变，节约成本 27.7 万元。 Shanghai Zijiang Color Printing changes from land transport to railroad transport, saving about RMB 277,000.</div>

包装运输的绿色化推进举措
Green transportation measures

完善环境治理 Improving Environmental Governance

地球是人类赖以生存的家园，环境保护是实现可持续发展的必然要求。我们积极贯彻落实党的二十大精神和中央生态环境保护工作会议精神，严格遵守环境相关法律法规及行业指引，在完善环境管理体系、强化环境应急管理的同时，深化精益管理并推动数字转型，夯实企业绿色低碳发展基础。

With the understanding that the Earth is our only home, we recognize the importance of protecting the environment to achieve sustainable development. We proactively implement the guiding principles of the 20th CPC National Congress and central government's eco-environmental protection conferences, and strictly observe environment-related laws and regulations. Through the implementation of lean management and the promotion of digitalization, we continuously improve our environmental management system and strengthen our environmental emergency management. These efforts serve as a solid foundation for our commitment to green and low-carbon development.

加强环境管理
Strengthening
environmental
management

我们高度重视环境保护，不断加强环境管理体制和机制建设，持续完善环境管理体系，以全面完成“一厂一方案”VOCs2.0 方案评估、减排量核算核查为契机，不断加大环保治理投入、狠抓自查自纠，有效减排。

We consistently work towards improving our environmental management practices, utilizing the "One Plant, One Plan" VOCs 2.0 program assessment, and conducting thorough evaluations of emission reductions. Seizing the opportunities provided by these initiatives, we increase our investments in environmental governance, rigorously conduct self-inspections, and implement corrective measures to effectively reduce emissions.

下属企业绿色工厂建设成果

Achievements of subsidiaries in building green factories

绿色工厂等级 Grade of green factories	被认定企业 Company	认定单位 Certification body
国家级绿色工厂 National green factory	上海紫江企业集团股份有限公司（母体工厂） Shanghai Zijiang Enterprise Group Co., Ltd. (Shanghai Preform Plant)	工业和信息化部 MIIT
上海市绿色工厂 Shanghai municipal green factory	上海紫泉饮料工业有限公司 Shanghai Ziquan Beverage Industry Co., Ltd.	上海市经济和信息化委员会 Shanghai Municipal Commission of Economy and Informatization
	上海紫江新材料科技股份有限公司 Shanghai Zijiang New Material Technology Co., Ltd.	上海市发展和改革委员会 Shanghai Municipal Development and Reform Commission
省级绿色工厂 Provincial green factory	南京紫乐饮料工业有限公司 Nanjing Zile Beverage Industry Co., Ltd.	江苏省工业和信息化厅 Industry and Information Technology Department of Jiangsu Province
	沈阳紫日包装有限公司 Shenyang Ziri Packaging Co., Ltd.	辽宁省工业和信息化厅 Industry and Information Technology Department of Liaoning Province
	沈阳紫江包装有限公司 Shenyang Zijiang Packaging Co., Ltd.	
	桂林紫泉饮料工业有限公司 Guilin Ziquan Beverage Industry Co., Ltd.	广西壮族自治区工业和信息化厅 Industry and Information Technology Department of Guangxi Zhuang autonomous region

案例 | Case

纸包装事业部成立可持续发展中心，助力企业“绿色低碳”转型
The Paper Packaging Business Unit establishes the Sustainability Center to facilitate green and low-carbon transition

为推动企业自身“绿色低碳”转型，纸包装事业部在 2022 年成立了可持续发展中心，致力于负责构建温室气体管理体系，管理可持续发展项目，研究和部署节能降碳方案，落实 ESG 相关工作与绩效，协调内外部利益相关方关系。

To further advance our commitment to "green and low-carbon" development, the Paper Packaging Business Unit established the Sustainability Center in 2022. The center serves as a hub for building a greenhouse gas management system, overseeing sustainability programs, researching and implementing energy efficiency and carbon reduction solutions, fostering ESG-related initiatives and performance, and coordinating collaboration with internal and external stakeholders.

完善应急管理

为有效提升环境风险应对及防范能力，保证员工健康生命安全，最大限度减少环境损害，我们持续完善预防性的事前管理机制，制定更加科学合理的环保事故应急预案，并要求下属企业认真编制和落实突发环境事件应急预案，推动自身环境应急管理持续提升。

Improving emergency management

To effectively respond to and prevent environmental risks, protect the health and ensure the safety of our employees, and minimize environmental damage, we continue to improve our preventive management mechanism. We focus on developing science-based emergency plans for environmental accidents and ensure that our subsidiaries are prepared and implement environmental emergency plans accordingly, thereby improving our environmental emergency management as a whole.

案例 | Case

紫燕合金参与上海市莘庄工业区开展的 2022 年突发环境事件应急演练
Ziyan Alloy participated in the 2022 Emergency Drill for Environmental Incidents in Shanghai Xinzhuang Industry Park

2022 年 11 月 15 日，上海市辐射环境安全技术中心、闵行区生态环境局、上海市莘庄工业区在紫燕合金联合举行“2022 年突发环境事件应急演练”，提升员工对于相关事件的应急处理水平。

On November 15, 2022, Shanghai Technology Center for Radiation Environmental Safety, in collaboration with the Ecological Environment Bureau in Minhang District and Shanghai Xinzhuang Industry Park jointly held the "2022 Emergency Drill for Environmental Incidents" at Ziyan Alloy to better prepare our employees for environmental emergencies.



紫燕合金突发环境事件应急演练现场
Ziyan Alloy's emergency drill for environmental incidents

应对气候变化
Addressing
Climate Change

我们深知气候变化已成为人类社会生存与发展的巨大挑战，而积极应对气候变化是企业承担社会责任的应有之义。作为包装行业领先企业，多年来，我们持续完善低碳管理，倡导应用清洁能源，不断赋能绿色产品，为行业绿色转型和国家“双碳”目标实现助一臂之力。

Climate change has posed a great threat to the survival and development of human society, underscoring the social responsibility of enterprises to address this global challenge. Over the years, as a leading enterprise in the packaging industry, we have consistently focused on enhancing our low-carbon management practices, promoting the adoption of clean energy, and actively supporting sustainable initiatives, to contribute to industrial green transition and China's carbon peak and carbon neutrality goals.

健全低碳管理

Improving low-carbon management

低碳发展模式是企业高质量转型的必由之路，我们积极响应国家“双碳”战略，紧跟相关政策法规的指引，继续深挖“双碳”机遇，推动下属企业进行碳核算认证、披露碳排放数据、建立碳减排小组，实现科学、系统的低碳管理体系建设。

In pursuit of high-quality transition, enterprises must embrace a low-carbon development model. We are fully committed to supporting national strategies for carbon peak and carbon neutrality. By adhering to relevant policies and regulations, we actively explore associated opportunities. Furthermore, we encourage our subsidiaries to conduct carbon accounting certification, disclose carbon emission data, and establish the carbon reduction group. As a result, we have achieved a science-based and systematic low-carbon management system.

案例 | Case

南京紫乐饮料通过碳核算认证，成为首个实现碳中和的紫江企业下属企业
Nanjing Zile Beverage awarded carbon accounting certification and became the frist Zijiang Enterprise subsidiary to achieve carbon neutrality

南京紫乐饮料坚持以“通过持续减排，以更低成本实现可持续的碳中和”为目标，建立《南京紫乐温室气体盘查清册》，识别排放源并进行量化计算，并梳理“南京紫乐碳减排管理清单”，寻找降低碳排放机会点。2022 年 10 月，南京紫乐饮料通过碳核算认证。这既充分肯定了南京紫乐饮料在碳管理方面的积极举措，也为紫江企业及其下属企业“碳”寻绿色路径提供了可资借鉴的优秀经验。

Aiming to "achieve sustainable carbon neutrality at a lower cost through continuous efforts on emission reduction", Nanjing Zile Beverage has formed the *Greenhouse Gas Checklist* to identify and quantify emission sources, and compiled the "List for Carbon Reduction Management" to effectively seize every opportunity to reduce carbon emissions. In October 2022, Nanjing Zile Beverage was awarded the carbon accounting certification, which not only recognizes the company's dedication to carbon management but also serves as an exemplary model for Zijiang Enterprise and its subsidiaries in their pursuit of green development.



南京紫乐饮料碳核算认证证书
Nanjing Zile Beverage's carbon accounting certification

案例 | Case

上海紫江彩印着力碳管理体系建设
Shanghai Zijiang Color Printing steps up efforts to establish a carbon management system

上海紫江彩印积极响应国家的碳减排、碳中和要求，成立了由公司领导层组成的碳减排小组，规划公司的碳减排总体方向和思路，形成了法律法规—客户—紫江彩印—供应商四维一体化低碳管理模式。2023 年上海紫江彩印将导入 SBTi（科学碳目标倡议），进一步推动公司低碳管理建设。

In response to the national requirements of carbon reduction and carbon neutrality, Shanghai Zijiang Color Printing set up a carbon reduction group composed of the company's senior executives. This group guides the overall direction and philosophy of carbon reduction. This has resulted in a four pronged integrated low-carbon management model consisting of laws and regulations, customers, the company and suppliers. In 2023, Shanghai Zijiang Color Printing will introduce Science Based Targets initiative (SBTi) to deeply advance low-carbon process.

案例 | Case

购买绿色电力，支持可再生能源使用
Purchasing green power and enabling renewable energy use

2022 年，紫丹食品、紫丹包科累计购买中国 GEC 风电绿证 477,000 度。这一行动是纸包装事业部对可持续发展和环境保护的承诺的体现，进一步支持可再生能源的使用，并在减少对环境的影响方面发挥了重要作用。

In 2022, Zidan Food and Zidan Packaging Technology purchased a total of 477 MWh of China GEC wind power green certificates This investment demonstrates the Paper Packaging Business Unit's strong commitment to sustainable development and environmental protection. This action calls for the use of renewable energy and is instrumental in reducing negative impacts on the environment.

应用清洁能源

Using clean energy

我们将清洁能源替代化石能源作为应对气候变化的重要举措，始终秉持“能装尽装”的原则，在自建厂房屋顶安装太阳能，通过使用太阳能等绿色能源，竭力降低生产运营碳足迹，为绿色低碳转型注入绿色新动能。

As one of our key initiatives to tackle climate change, we are replacing fossil energy with clean energy. Upholding the principle of "installing wherever possible", we have installed solar energy equipment on the roofs of our own factories. This is one of our efforts to reduce the carbon footprint in manufacturing and operations to empower low-carbon transition by using green energy.

紫东尼龙
Zidong Nylon

安装太阳能光伏发电设备，年节约标煤 145 吨。
Installing photovoltaic power generation equipment, with annual savings of 145 tons of standard coal.

上海紫江喷铝
Shanghai ZJMP

完成安徽工厂 1.9 兆瓦屋顶分布式光伏发电项目全容量并网发电，累计节约 208.68 吨标煤。
Completing the grid-connected generation of the 1.9 MW rooftop distributed photovoltaic power generation project with full capacity in Anhui factory, saving 208.68 tons of standard coal.

容器包装事业部
Container Packaging Business Unit

完成上海瓶坯中心二期光伏等项目，实现年发电 520 万度。
Completing the second phase of the Shanghai Preform Center photovoltaic project, achieving an annual power generation of 5.2 GWh.

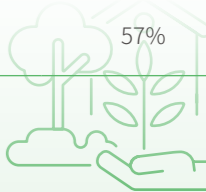
应用清洁能源举措
Measures to use clean energy



关键目标
Key targets

指标内容 Indicator	2020 年 2020	2021 年 2021	2022 年 2022	2025 年目标值 Target by 2025
安装太阳能面积（平方米） Area with photovoltaic systems (m²)	97,686	117,300	210,519	396,862
分布式光伏覆盖率 Coverage of distributed photovoltaic projects	15%	18.36%	31.72%	57%

注：分布式光伏覆盖率 = 紫江企业全国自有厂房屋面安装光伏面积 / 紫江企业全国自有厂房屋面总面积。
Note: Coverage of distributed photovoltaic projects = Roof area of factory buildings nationwide under Zijiang Enterprise with photovoltaic systems / Total roof area of factory buildings under Zijiang Enterprise nationwide.



关键绩效
Key performance

新增光伏安装面积 93,219 平方米

93,219 m² of new photovoltaic area


光伏安装面积同比增加 79.47 %

Year-on-year increase in photovoltaic area covered: 79.47%

共促循环经济
Promoting circular economy

再利用和资源化是循环经济的基本原则。我们聚焦废弃物的再利用和资源化，通过改进工艺、引进设备等方式，与客户携手共同探索废弃物、包装物高效循环再利用的有效途径，提升资源使用效率，推进绿色、循环、低碳发展。


Reuse and recycling are the fundamentals of circular economy. With a focus on the reuse and recycling of waste, we work hand in hand with our customers to explore effective strategies for recycling and reusing waste and packaging materials. Through technological advancements and the introduction of advanced equipment, we aim to enhance resource efficiency and foster green, circular, and low-carbon development.

 关键目标
Key targets

指标内容 Indicator		2020 年 2020	2021 年 2021	2022 年 2022	2025 年目标值 Target by 2025
无害废弃物 Non-hazardous waste	企业自循环利用率 Recycling rate at Zijiang Enterprise	0.82%	4.06%	4.52%	68%
	社会循环利用率 Recycling rate across the whole society	96.83%	95.94%	95.48%	30%

注：
1. 无害废弃物是指，紫江企业下属制造企业年产生的企业自循环利用固废料、社会循环利用固废料及不可循环利用的固废料。
2. 数据覆盖紫江企业下属制造企业全国工厂。

Note:
1.Non-hazardous waste refers to solid waste produced and recycled by manufacturing subsidiaries of Zijiang Enterprise, solid waste recycled across the whole society, and solid waste that cannot be recycled.
2.The data covers manufacturing subsidiaries of Zijiang Enterprise nationwide.





容器包装事业部
Container Packaging Business Unit

- 通过上海瓶坯中心注塑机液压油回收过滤再利用项目，全年处理再利用液压油 35 吨。
35 tons of hydraulic oil treated and reused this year through the hydraulic oil recovery and filtration reuse by injection molding machine in Shanghai Preform Center.

上海紫江彩印
Shanghai Zijiang Color Printing

- 研发 PE 环保标签原膜，提供给世界 500 强企业美国艾利，解决传统 PVC 收缩标签在废弃物处理时会产生有害物质二恶英的严重环保问题，实现产量 4,000 万平方米；
Developing and supplying PE environment-friendly label film to Avery Dennison, one of the Fortune Global 500 companies, to deal with dioxin, a harmful substance produced by traditional PVC shrink labels during waste disposal, with product output of 40 million m²;
- 与客户合作开展转型包装膜“单一化”的可回收切换工作，如雀巢咖啡的全聚烯烃包装、皇家的全 PE 结构包装、乐高的纸包装等；
Working with customers to make packaging films recyclable and convertible, such as all-polyolefin packaging for Nescafe, all-PE structured packaging for Royal Canin, paper packaging for Lego, etc;

紫东尼龙
Zidong Nylon

- 配备在线粉碎机等设备对废边、废膜回收造粒后再利用，实现原料利用率 100%。
Equipped with pulverizing mill and other equipment to recycle and reuse the waste such as scrap edge and film, achieving 100% raw material utilization rate.

上海紫泉标签
Shanghai Ziquan Label

- 为可乐、百事、喜茶等客户提供含有 30% 回料的 rPETG 材料约 1,500 吨；
Supplying approximately 1,500 tons of rPETG material containing 30% recycled material to customers such as Coke, Pepsi and HEYTEA;
- 吹膜工序在线回收 PE 废边丝 65 吨。
Recycling 65 tons of PE scrap yarn in film blowing process.

促进循环经济发展举措
Measures to promote circular economy development

深化节能减排
Deepening Energy Conservation and Emission Reduction

我们将绿色理念贯穿至企业生产经营的每一个环节，始终以国家最新环境管理政策与生态文明建设要求为引导，从改进工艺、升级设备到制定年度管理目标，推动各环节节能减排工作持续优化，为可持续发展提供绿色动能。

We integrate green concepts throughout the entire production and operation process and consistently align ourselves with the latest national environmental management policies and requirements for ecological conservation. Accordingly, we optimize our energy saving and emission reduction work in all aspects, from technology, equipment to annual management targets, to empower sustainable development with green energy.

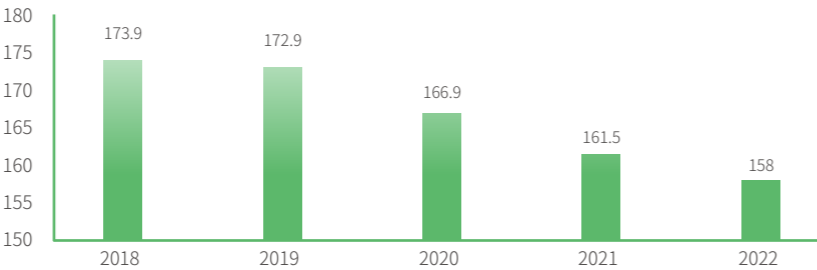
加强节能降耗
Strengthening energy saving and consumption reduction

推进节能降耗是应对全球气候变化的迫切需要，也是企业可持续发展的必由之路。我们高度重视能耗管理，将能源消耗纳入管理指标，持续投入节能改造资金，鼓励支持下属企业通过使用节能设备、改进生产工艺、采用清洁能源，在节约能源的同时实现降本增效。

Promoting energy saving and consumption reduction is a pressing need to address global climate change and a fundamental requirement for sustainable corporate development. Recognizing the importance of energy management, we have integrated energy consumption into our management metrics, consistently allocated funds for energy-saving renovations, and encouraged our subsidiaries to adopt energy-efficient equipment, enhance manufacturing technologies, and utilize clean energy sources. These initiatives enable us to achieve cost reductions, improve operational efficiency, and contribute to energy conservation.

关键绩效
Key performance

实施节能改造项目 4 项 4 energy-saving transformation projects	节能改造投入 2,422.8 万元 RMB 24.228 million invested in energy-saving transformation
通过能源审计的上海重点用能企业 5 家 5 subsidiaries of Zijiang Enterprise that are key energy-using enterprises in Shanghai passed audit of energy consumption	通过节能诊断的一般企业 9 家 9 subsidiaries of Zijiang Enterprise passed evaluation of energy saving



2018-2022 年容器包装事业部用电单耗情况 (单位: 度 / 万只)
Electricity consumption of the Container Packaging Business Unit from 2018 to 2022 (Unit: kWh/ 10,000 bottles)

智能抄表系统 Intelligent meter reading system	数据实时采集 Real-time data acquisition
	能耗精准管理 Accurate management of energy consumption
	系统主动推送异常信息 Automatic reporting of abnormal information by system
平台大数据分析 Platform big data analysis	通过对比分析，及时发现问题并改善 Timely identification of problems and improvement through comparative analysis
	通过分析，优化系统配置，或改造工艺流程 Optimizing system configuration or modifying processes through analysis
专家技术团队 Expert team	分析、指导、支持解决设备上的问题 Analyzing, instructing and supporting to solve facility problems
	完善优化过程生产中的操作流程 Improving operational processes in process production
	培训工厂发现问题的能力 Training plants to identify problems

紫江企业多措并举，全面优化能耗管理
Multi-pronged measures of Zijiang Enterprise to optimize energy consumption management

关键目标
Key targets

指标内容 Indicator	2020 年 2020	2021 年 2021	2022 年 2022	2025 年目标值 Target by 2025
每万元产值电耗 (度 / 万元) Electricity consumption per RMB 10,000 of output value (kWh)	635.11	619.91	570.31	547.38
节能灯功率占总照明功率比 Ratio of the power of energy-saving lamps to total lighting power	78%	89.22%	90.5%	≥ 94%
节能公用设施功率占公用设施总功率 Ratio of power of energy-saving utilities to total power of electric facilities	32.15%	34.41%	43.40%	≥ 67%

- 注：
- 每万元产值电耗 = 紫江企业下属制造企业年耗用电量数 / 年完工总产值
 - 节能灯功率占总照明功率比 = 节能照明灯功率 / 全国工厂总照明灯功率
 - 节能公用设施设备功率占公用设施设备总功率比 = 节能公用设施设备功率 / 公用设施设备总功率
 - 数据覆盖紫江企业下属制造企业全国工厂。

Note:

- Electricity consumption per RMB 10,000 of output value = Annual power consumption of manufacturing subsidiaries of Zijiang Enterprise / Total annual output value
- Ratio of the power of energy-saving lamps to total lighting power = power of energy-saving lamp / total lamp power of plants nationwide
- Ratio of the power of energy-saving utilities to total power of utilities = power of energy-saving utilities / total power of electric facilities
- The data covers manufacturing subsidiaries of Zijiang Enterprise nationwide.





节能降耗举措及成效
Measures and results of energy saving and consumption reduction

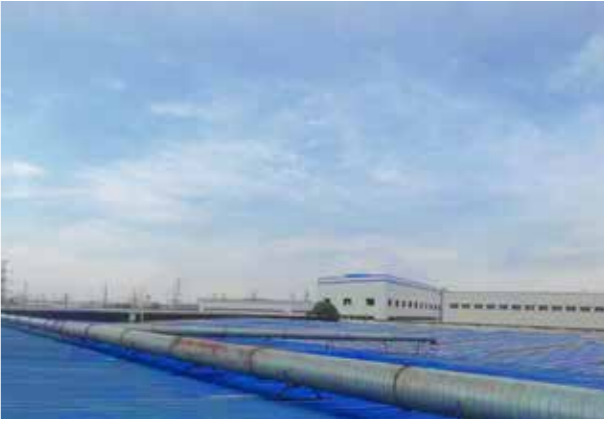
推动废气管理
Promoting exhaust fumes management

我们严格遵守国家和地方法律法规要求，落实废气源头排放与末端治理，通过运用信息化技术，实现废气控排企业末端治理排放在线全流程、实时监测，实现废气排放 100% 达标。

In accordance with national laws and regulations as well as local guidelines, Zijiang Enterprise strictly implements the strategy of source emission reduction and end emission treatment. We utilize information technology to monitor waste gas emissions in real-time throughout the entire production process, ensuring that all subsidiaries adhere to waste gas treatment control measures and meet relevant emission standards.



容器包装事业部工厂均已安装 VOCs 废气处理并投入使用。
All factories of the Container Packaging Business Unit are equipped with VOCs exhaust treatment machine.



四川紫日包装将瓶盖生产中产生的废气经过集气罩收集，由屋顶引风机引至 VOCs 处理设施进一步处理后再引至 15 米高排气筒达标外排。
Sichuan ZiRi Packaging collects the exhaust gas generated in cap production with fume hood and sends it to VOCs treatment facilities by roof fans for further treatment to make sure it is up-to-standard before being discharged through a 15m high exhaust pipe.

关键绩效
Key performance

指标内容 Indicator	2020 年 2020	2021 年 2021	2022 年 2022
废气治理投入（万元） Investment in waste gas treatment (RMB 10,000)	1,453.99	1,538.84	1,304
控排企业 NMHC 排放量（吨） NMHC emissions of subsidiaries under waste gas treatment control (ton)	105.20	86.32	77.27
控排企业 NOx 达标排放量（吨） NOx up-to-standard emission of subsidiaries under waste gas treatment control (ton)	1.76	1.67	1.93

注：

1. 控排企业：指下属企业被当地省、市环保部门列为废气控排名单企业。

2. 非甲烷总烃（NMHC）、氮氧化物（NOx）排放总量为排口自动监测、手工监测计算。

Note:

1. Subsidiaries under waste gas treatment control refer to subsidiaries who are included in the emission control list by the local provincial and municipal environmental protection departments.

2. The total emissions of NMHC and NOx are automatically monitored at the outlet and manually calculated.



指标内容 Indicator	2020 年 2020	2021 年 2021	2022 年 2022	2025 年目标值 Target by 2025
无溶剂复合替代溶剂型复合率 Ratio of solvent-based synthesis replaced by solvent-free synthesis	33.90%	37%	39%	≥ 55%
单一材质薄膜产品占比 Proportion of Mono-material products	79.29%	83.42%	87.51%	≥ 85%

注：

- 无溶剂复合替代溶剂型复合率 = 无溶剂复合年生产量 / 复合年生产总量
- 单一材质薄膜产品占比 = 单一材质薄膜年生产量 / （单一材质薄膜年生产量 + 多材质薄膜年生产量）
- 数据覆盖紫江企业下属制造企业全国薄膜印刷工厂。

Note:

- Ratio of solvent-based synthesis replaced by solvent-free synthesis = Annual output of solvent-free synthesis / Annual output of synthesis
- Proportion of Mono-material products= Annual output of Mono-material products / Total annual output of Mono-material productss and multi-material thin film printing products
- The data covers all thin film printing factories of Zijiang Enterprise nationwide.



案例 | Case

上海紫江彩印整厂 VOCs 治理项目实现各排污点应收尽收
Shanghai Zijiang Color Printing plant gives its best to collect VOCs in all emission points

2022 年 12 月 23 日，上海紫江彩印整厂 VOCs 治理项目正式进入试运行阶段。该项目通过有组织 + 无组织综合治理，做到各个排污点 VOCs 全面处理。同时，采用的旋转阀式 RTO 具有高净化效率和高热效率，非甲烷总烃在线监测稳定≤ 20 毫克 / 立方米超低排放，余热回收产生蒸汽 15 吨 / 天，效益 3,600 元 / 天，实现环保达标和余热回收效益双收益。

On December 23, 2022, the trial operation of the VOCs treatment project in the Shanghai Zijiang Color Printing plant was officially launched. This project aims to comprehensively treat VOCs emissions at each emission point through a combination of organized and spontaneous efforts. At the same time, our rotary valve type RTO features high purification efficiency and high thermal efficiency. As a result, the total non-methane hydrocarbon concentration is maintained below 20 mg/m³, and waste heat from the treatment process generates 15 tons of steam per day, resulting in a daily return of RMB 3,600. This equipment enables us to achieve double benefits of environmental compliance and waste heat collection.



强化固废管理

Reinforcing solid waste management

为减少危险废弃物对生态环境的污染，我们严格遵循相关法律法规和标准要求，并通过鼓励技术创新、紧抓源头，不断加强对危废品从收集、贮存到处理的全过程有效管控，在防止危废品意外泄漏流失的基础上，持续推进危废品减量化、无害化和资源化。

In order to minimize the environmental impact of hazardous waste, we strictly adhere to applicable laws, regulations, and standard requirements. We continuously strengthen the effective control of hazardous waste from collection, storage to disposal by promoting technological innovation and tightening the control at source. Building upon the foundation of preventing accidental leakage or loss of hazardous waste, we persistently promote waste reduction, harmless treatment, and resource utilization.



关键绩效 Key performance



危险废物处置合规率 **100%**
Compliance rate of hazardous waste disposal: 100%



指标内容 Indicator	2020 年 2020	2021 年 2021	2022 年 2022	2025 年目标值 Target by 2025
有害废弃物处置量（吨） Treated hazardous wastes (ton)	1,334.54	1,112.50	1,087.9	≤ 1,300
有害废弃物处置强度（吨 / 万元产值） Intensity of treated hazardous wastes (ton / RMB 10,000 of output value)	0.0018	0.0013	0.0012	0.0012

注：

- 有害废弃物是指，依据《国家危险废物名录》，紫江企业下属制造企业年产生的危险废物。
- 数据覆盖紫江企业下属制造企业全国工厂。

Note:

- Hazardous waste refers to those produced by manufacturing subsidiaries of Zijiang Enterprise according to the *National Catalogue of Hazardous Wastes*.
- The data covers all factories of manufacturing subsidiaries of Zijiang Enterprise nationwide.



优化水资源管理
Optimizing water
resources management

水资源事关企业与社区的可持续发展和福祉。我们不断优化水资源管理，鼓励下属企业优化生产工艺、引进新型设备、探索智能化污水处理系统应用，致力于在生产过程中减少水资源消耗，科学利用和处理废水。

Water resources are crucial to the sustainable development and well-being of enterprises and communities. We are dedicated to optimizing water resources management and encouraging our subsidiaries to enhance production processes, introduce advanced equipment, and implement intelligent wastewater treatment systems. We are committed to reducing water consumption and scientifically utilizing and treating wastewater in the production process.

案例 | Case

紫华企业改造喷水装置，实现水资源重复利用
Zihua Enterprise renovates water spraying device to reuse water

紫华企业对 3#、5# 流延线水槽水路进行改造，加装滤网、三通利用小型水泵、水位检测装置和电磁阀，每年可节约 10,000-15,000 吨水，不仅有效解决 3#、5# 流延线水槽水浪费严重的问题，还实现了水槽水的循环利用。

Zihua Enterprise rebuilt the sink water circuit of 3# and 5# flow lines by adding a filter screen, tee small pumps, a water level detection device and a solenoid valve. These enhancements enable the company to conserve and recycle water effectively, resulting in annual water savings of 10,000-15,000 tons.

关键绩效
Key performance



废水达标排放率 **100%**

Up-to-standard discharge rate of wastewater: 100%

关键目标
Key targets

指标内容 Indicator	2020 年 2020	2021 年 2021	2022 年 2022	2025 年目标值 Target by 2025
PET 瓶单位饮料水耗用率（升 / 升） Water consumption per unit of beverage of PET bottle (liter/ liter)	2.53	2.36	2.49	2.1
易拉罐单位饮料水耗用率（升 / 升） Water consumption per unit of beverage of ring-pull can (liter/ liter)	6.37	6.79	5.14	4.5

注：

- 单位饮料水耗用率 = 年耗用水总量 / 年生产饮料总量
- 由于 2022 年 PET 瓶装饮料的品种和换型增多，导致清洗设备使用的水量增加。

Note:

- Water consumption per unit of beverage = Total annual water consumption/ Total annual output of beverage
- Due to the increase in the variety and production model switching of PET bottled beverages in 2022, water used by cleaning equipment has increased.



传递绿色理念
Delivering Green
Concepts

环境保护之根本在于增强环保意识，要想更好地实现绿色发展，还需要包括员工、行业伙伴在内的所有人的努力。为此，我们开展形式多样的环保宣传教育活动，不断深化行业合作，凝聚绿色共识，倡导绿色生活方式，增强所有人对于环境保护的责任感和使命感。

Environmental awareness lies at the core of environmental protection, and the pursuit of green development requires the collective efforts of all stakeholders, including employees and industry partners. In line with this, we actively engage in various environmental publicity and educational initiatives to foster collaboration across the industry, build consensus on green development, promote green lifestyles, and enhance everyone's sense of responsibility and commitment to environmental protection.

案例 | Case

紫江企业携手员工共促绿色蔚然成风
Zijiang Enterprise joins hands with employees to promote green ideas in work and life

紫江企业及下属企业结合“线上 + 线下”的方式，多渠道宣传绿色生活方式，让绿色在员工间蔚然成风。其中，上海紫江彩印通过环保培训以及“金点子你提我改”等方式，增强员工环保意识，促使成为环保达人。四川紫日包装通过多媒体线上学习等方式，宣传垃圾分类、节能减排、低碳出行等绿色生活方式，培养员工绿色生活习惯。

Through a combination of online and offline initiatives, Zijiang Enterprise and its subsidiaries actively promote green lifestyles through various channels and instill green concepts among employees. For example, Shanghai Zijiang Color Printing has enhanced employee awareness of environmental protection through environmental protection training and "Improvement brought by employees' golden ideas". Sichuan ZiRi Packaging cultivates green life habits among employees by promoting waste classification, energy saving and emission reduction, low-carbon travel through multimedia online learning and others.



上海紫江彩印环保培训现场
Environmental training of Shanghai Zijiang Color Printing

02 齐心携手并进 共享社区之美

在新时代的征程中对美好生活的向往始终是我们的初心，指引我们前进的方向。我们不断以积极的履责行动，携手员工、伙伴、客户等利益相关方，坚守安全红线、提供发展平台、搭建人生舞台、传递希望火种，成就彼此更美好的未来。

In the journey of the new era, our unwavering commitment to the people's aspiration for a better life remains our primary focus, guiding our path forward. We continue to take positive actions to fulfill our responsibilities, and join hands with employees, partners, customers, and other stakeholders. Together, we safeguard the red line of safety, provide a development platform, create opportunities for personal growth, ignite the flame of hope, and work towards a better shared future.



Joining Hands to Share the Community Benefits

重点举措 Key Initiatives

- ▷ 共筑安全基石
Consolidating safety foundation together
- ▷ 放飞员工梦想
Empowering employees for common progress
- ▷ 成就伙伴未来
Building a shared future with partners
- ▷ 点亮幸福家园
Jointly building a better homeland

关键绩效 Key Performance

- ▷ 下属企业工亡与物损 50 万元以上安全事故
0 起
0 safety accidents with work-related fatalities or material damage worth over RMB 500,000 in subsidiaries
- ▷ 职业危害事故
0 起
0 occupational accidents happened
- ▷ 员工敬业度平均分
91.7 分
91.7 pointed average score of employee dedication



共筑安全基石

Consolidating
Safety Foundation
Together

“安全”是企业经营的基石。2022 年我们持续优化安全管理体系，强化安全检查制度，竭力保障员工职业健康安全，切实保障食品安全。通过不断强化安全意识与专业常识的培训，我们努力将安全理念融入员工的行为习惯中。

Safety is the foundation of our corporate operation. In 2022, we continued to optimize the safety system, strengthened the safety inspection system, and strove to ensure the vocational health and safety of our employees while effectively guaranteeing food safety. We ramped up efforts to integrate a safety-centric philosophy into the daily behaviors of our workforce through continual enhancement of safety awareness and providing training on professional best practices.

狠抓要素管理补不足

Strengthening element
management

在 2021 年的基础上，2022 年下属各企业以安委会制定的《年度事业部与单体企业安全评价制度》为指导，弥补要素管理的不足，继续夯实安全管理体系。从 2022 年度安全评价的结果看，各企业在体系建设上都有了一定程度的进步。

In 2022, under the guidance of the Safety Committee's *Annual Safety Evaluation System for Business Units and Individual Subsidiaries*, all of our subsidiaries strengthened element management and continued to consolidate the safety management system on top of the achievements made in 2021. Based on the results of the 2022 safety evaluation, all subsidiaries had made certain progress in their respective system building.

案例 | Case

强化安全管理工作，筑牢安全生产之基
Strengthening safety management and consolidating the foundation for work safety

上海紫日包装持续完善安全管理体系，在修订《风险管控手册》和《应急预案》的基础上，制订本企业《EHS 手册》，加强对外来服务的相关方进行培训，并要求相关方签署承诺书，规范外来服务人员的行为，切实保障企业整体安全。

Shanghai ZiRi Packaging has made continuous efforts to enhance its safety management system. It has developed the *EHS Manual* based on the revised *Risk Control Manual and Emergency Contingency Plan*. By providing comprehensive training to external service parties and implementing a requirement for them to sign letters of commitment, the company has standardized behavior for external personnel, thereby ensuring the overall safety of the organization.

体系名称 Name	受审单位 Applicant	
ISO 45001 职业健康安全 管理体系 ISO 45001-Occupational health and safety management system	上海紫江企业集团股份有限公司 Shanghai Zijiang Enterprise Group Co., Ltd.	上海紫江彩印包装有限公司 Shanghai Zijiang Color Printing & Packing Co., Ltd.
	上海紫江国际贸易有限公司 Shanghai Zijiang International Trading Co., Ltd.	南京紫乐饮料工业有限公司 Nanjing Zile Beverage Industry Co., Ltd.
	上海紫江新材料科技股份有限公司 Shanghai Zijiang New Material Technology Co., Ltd.	上海紫泉饮料工业有限公司 Shanghai Ziquan Beverage Industry Co., Ltd.
	上海紫江喷铝环保材料有限公司 Shanghai Zijiang Metallization Environmental Protection Material Co., Ltd.	桂林紫泉饮料工业有限公司 Guilin Ziquan Beverage Industry Co., Ltd.
	上海紫丹印务有限公司 Shanghai Zidan Printing Co., Ltd.	沈阳紫泉饮料工业有限公司 Shenyang Ziquan Beverage Industry Co., Ltd.

完善检查制度控风险

Improving the inspection
system to control risks

我们严格执行安全检查制度，定期开展安全专项检查，全面排查整治各类风险隐患。同时，我们扎实推进安全风险分级管控，通过总经理与安全领导月度带队检查，部门经理、班组、EHS 经理各司其职，不断织密风险防范网，坚决守住安全生产底线。

We adhere to a rigorous safety inspection system, conducting regular special safety inspections to identify and rectify potential risk hazards comprehensively. At the same time, we make solid efforts to promote hierarchical management and control of safety risks. Our monthly inspection teams, led by general managers and safety leaders, along with department managers, teams, and EHS managers, diligently carry out their respective responsibilities. Together, we build a tightly woven risk prevention network, and resolutely guard the bottom line of work safety.

案例 | Case

创新隐患排查方式，减少安全事故发生
Innovating in hazards investigation methods to reduce safety accidents

沈阳紫日包装突破了以往“本部门安全员检查本部门”的原则，重新制定检查要求，实现日常工作期间当班安全员不定期对各部门进行交叉性隐患排查，最终有效提升隐患排查工作效果，大大减少安全事故的发生。

Shenyang ZiRi Packaging has eliminated the previous principle of "the safety officer of the department checks their own department". Instead, new inspection requirements have been formulated to ensure that the on-duty safety officer conducts irregular cross-department inspections of safety hazards during daily work. This has effectively improved the effectiveness of safety hazard inspections and significantly reduced the occurrence of safety accidents.



关键绩效
Key performance



紫华企业
Zihua Enterprise

隐患排查 **238** 项，
整改率 **100** %

238 items of safety hazard investigations conducted, with a hazard ratification rate of 100%



上海紫江彩印
Shanghai Zijiang Color Printing

隐患排查 **530** 项，
整改率 **100** %

530 items of safety hazard investigations conducted, with a hazard ratification rate of 100%



上海紫日包装
Shanghai ZiRi Packaging

隐患排查 **256** 项，
整改率 **99** %

256 items of safety hazard investigations conducted, with a hazard ratification rate of 99%



上海紫江喷铝
Shanghai ZJMP

隐患排查 **33** 项，
整改率 **100** %

33 items of safety hazard investigations conducted, with a hazard ratification rate of 100%

提升应急处置能力
防事故

Improving emergency
response capabilities to
prevent accidents

我们持续完善安全应急管理机制，针对各类危险源、危险区域进行风险的动态评估，并建立应急救援团队，通过开展应急预案培训与实操演练，提升安全事故应急处置能力，最大程度减少安全事故危害。

2022 年上海的封控及工厂封闭生产，对企业的安全管理提出了极高的要求。面对基础设施外来维修、器材外包管理服务等缺失，各企业发挥主观能动性，结合员工驻厂期间的管理要点，制定了临时管理制度，组织员工卓有成效地实施了工厂安全系统的维护，杜绝安全事故发生。

We are committed to continuously enhancing our safety emergency management mechanism. This includes conducting dynamic risk assessments for various hazards and hazardous areas, as well as establishing emergency rescue teams. Through comprehensive training on emergency contingency plans and regular drills, we have improved our emergency response capabilities, enabling us to effectively deal with safety accidents and minimize their occurrence.

In 2022, the lockdown measures in Shanghai and the production operations in sealed-off factories presented significant challenges to corporate safety management. Confronted with the lack of external infrastructure maintenance and outsourced equipment management services, all subsidiaries proactively devised provisional management rules based on the key management aspects pertaining to employees during their stay in the factories. Subsequently, they organized employees to effectively uphold the maintenance of the factory's safety systems and prevent the occurrence of safety accidents.



与当地消防部门合作开展应急演练
With local fire departments to conduct emergency drills



危险化学品防泄漏演练
The hazardous chemicals leakage prevention drill



触电应急演练
The electric shock emergency drill



食物中毒应急演练
The food poisoning emergency drill

案例 | Case

纸包装事业部开展台风防汛应急演练
The Paper Packaging Business Unit carries out emergency drills for typhoon and flood prevention

2022 年 5 月 23 日，纸包装事业部各工厂均还处在疫情封闭式管理的阶段中。面对汛期的提前到来，纸包装事业部安全领导小组结合 2022 年的疫情和汛期特点，组织各工厂相关人员穿戴好疫情防护用品进行台风防汛应急演练，确保各工厂平稳度过汛期。

On May 23, 2022, all factories of the Paper Packaging Business Unit remained sealed off as part of the epidemic response management. In preparation for the early arrival of the flood season, the safety task force of the Paper Packaging Business Unit diligently organized personnel from each factory to undergo emergency drills for typhoons and flood prevention while adhering to the necessary epidemic protection protocols. These drills were specifically tailored to address the combined challenges posed by the epidemic and the flood season in 2022, with an aim to ensure that all factories can pass the flood season smoothly.

心系食品安全保平安
Focusing on food safety

食品安全事关人民群众身体健康和生命安全。我们深刻意识到包装对于食品安全的重要性，并始终将食品安全和质量管理贯穿于生产运输全过程，从油墨、纸张到胶水，从水循环管道、仪表仪器检测到金属异物、蚊虫、油污、荧光剂，每一步都做到严把质量关，致力让客户用得放心、让消费者吃得安心。

Food safety is essential to people's health and life safety. We recognize the crucial role that packaging plays in ensuring food safety, and we prioritize food safety and quality management across the entire production and transportation process. Meanwhile, we maintain strict control over the quality of ink, paper, glue, water circulation pipes, instruments and meters, metal elements, as well as monitor for the presence of mosquitoes, oil stains, and fluorescent agents, providing our customers with the reassurance and confidence in the safety and quality of our products.

案例 | Case

紫丹食品获 BRC 体系认证证书
Zidan Food obtains the certificate of BRC system certification

继 2018 年上海紫江彩印率先获得英国零售商协会（BRC）食品技术标准认证之后，2022 年 10 月紫丹食品通过 BRC 食品技术标准认证。这是对紫丹食品安全性的充分认可。1998 年，BRC 应行业需要，制定食品技术标准认证，用以评估零售商自有品牌食品的安全性。目前，BRC 食品技术标准认证已成为国际公认的食品规范，是食品安全方面含金量最高的体系认证。

After Shanghai Zijiang Color Printing became the first to obtain the British Retail Consortium (BRC) Food Technical Standard certification in 2018, Zidan Food passed the BRC Food Technical Standard certification, which is a testament to the safety standards upheld by Zidan Food. In 1998, BRC developed the Food Technical Standard to address industry requirements for assessing the safety of private label foods sold by retailers. At present, BRC certification has gained international recognition as a leading food standard and the most authoritative certification system in terms of food safety.



紫丹食品获 BRC 体系认证证书
Zidan Food obtains the certificate of BRC system certification

案例 | Case

紫江企业组织食品接触材料相关培训
Zijiang Enterprise organizes training related to food contact materials

2022 年，紫江企业邀请上海市质量监督检验技术研究院专家，围绕 GB 31603、GB 9685、GB 4806 等相关国标，为塑料包装、纸包装企业开展关于“工业产品生产许可证改革、产品原辅材料索证索票法规及食品相关产品材质安全合规检测要点”线上培训，帮助所属企业了解食品接触材料原辅料、配方、生产工艺的安全合规、标识标签、型式试验等要点。

In 2022, focusing on relevant national standards including GB 31603, GB 9685 and GB 4806, Zijiang Enterprise organized online training sessions for plastic packaging and paper packaging subsidiaries on "reform on production license of industrial product, regulations on demand for documents and tickets of product raw and auxiliary materials, and elements of safety compliance inspection on food-related product material". These training sessions were conducted by experts invited from the Shanghai Institute of Quality Inspection and Research On Products, providing subsidiaries with knowledge on safety compliance, labeling, type testing of raw and auxiliary materials, as well as formulations and production processes for food contact materials.

案例 | Case

上海紫丹食品检测中心筑牢食品安全“防火墙”
Shanghai Zidan Food Testing Center solidifies the "firewall" for food safety

2022 年 10 月 19 日，上海紫丹食品检测中心获得中国合格评定国家认可委员会（以下简称“CNAS”）实验室认可证书。CNAS 是根据《中华人民共和国认证认可条例》规定，经国家认证认可监督管理委员会批准设立并授权，是目前国内唯一一家有资格颁发国家认可实验室的机构。检测中心的建立、有效运行与 CNAS 的认可为紫丹食品在“夯实食安检测能力，引领包材食安管控新方向”走出了关键的一步。

On October 19, 2022, the Shanghai Zidan Food Testing Center obtained the laboratory accreditation certificate from the China National Accreditation Service for Conformity Assessment (CNAS). CNAS is a regulatory body established and authorized by the Certification and Accreditation Administration of the People's Republic of China, and it is the only institution in China authorized to issue national accreditation for laboratories. The establishment and successful operation of the testing center, along with its CNAS recognition, have allowed Zidan Food to further "consolidate its food safety testing capabilities and take a leading role in the advancement of food safety control for packaging materials".



上海紫丹食品检测中心获 CNAS 认证证书
The CNAS accreditation certificate obtained by the Shanghai Zidan Food Testing Center

案例 | Case

饮料 OEM 事业部竭力保障新客户新产品的食品安全
Beverage OEM Business Unit strives to ensure the food safety of new customers and new products

饮料 OEM 事业部在引入新客户期间，始终将食品安全作为前提项放在首要位置。2023 年，沈阳工厂以新方式引入新客户，工厂从新产品研发设计（配方合规性、工艺符合性）、原物料采购（供应商合规性、物料合规性），产品标签纸箱设计（法规合规性）到新品试产、过程监控、产品稳定性测试等环节，为客户提供专业的代工质量服务，确保食品安全，努力保障每一款新产品的品质都能让客户和消费者满意。

The Beverage OEM Business Unit prioritizes food safety when introducing new customers. In 2023, the Shenyang factory adopted a new approach to introduce new customers. Starting from new product development and design (formula compliance, process compliance), raw material procurement (supplier compliance, material compliance), product label and carton design (compliance with laws and regulations) to new product trial production, process monitoring, product stability testing and other stages, the factory provides professional OEM quality services to ensure food safety and strives to meet customers' and consumers' expectations for the quality of each new product.

重视职业健康促安全

Valuing occupational health to promote safety

2022 年，公司安委会对下属企业职业健康管理进行了更细致、更专业的指导和检查。各企业健全职业病健康监护及档案管理制度、制定切实有效的职业病危害事故应急救援预案，从职业病体检、职业病危害因素检测、岗位安全管理培训，到配备完善的劳保工具和安全监测装置，竭力保障所有员工的健康安全，用积极的行动为员工筑牢职业健康安全防线。

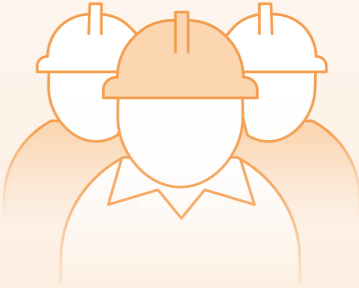
In 2022, the safety committee of the Company conducted more detailed and professional guidance and inspection on the occupational health management of our subsidiaries. As a result, all subsidiaries enhanced the monitoring of occupational diseases and improved the file management system, and formulated effective emergency rescue plans for occupational disease accidents. Various measures were implemented, including occupational disease physical examinations, detection of occupational disease factors, job safety management training, and provision of comprehensive labor protection tools and safety monitoring devices. These actions were taken to ensure the health and safety of all employees and establish a strong defense line for occupational health and safety.



在工作场所张贴安全风险标识
Posting safety risk signs at the workplace

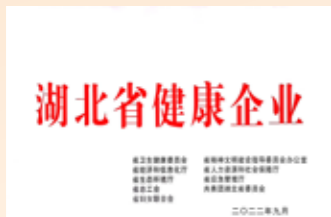


为员工配备完整劳保用品
Equipping employees with full sets of labor protection supplies





沈阳紫泉饮料和桂林紫泉饮料通过
ISO 45001 认证
Shenyang Ziquan Beverage and Guilin Ziquan Beverage
have passed ISO 45001 certification



纸包装事业部荣获湖北省“健康企业”称号
The Paper Packaging Business Unit wins the title of
"Healthy Enterprise" of Hubei Province

案例 | Case

“岗中职业病上门体检”服务，为员工带来贴心保障
"Door-to-door physical examination of on-the-job occupational
disease" services bring heartfelt protection to employees

为进一步加强职业病防治工作，提高职工的健康水平，纸包装事业部为员工提供“岗中职业病上门体检”服务。该项服务将由专业医护人员上门为职工进行体检，包括身体基本情况、职业病危害接触情况、职业病专项检查等项目，以及提供健康咨询和预防指导。

To further strengthen the prevention and control of occupational diseases and prioritize the health of employees, the Paper Packaging Business Unit offers "door-to-door physical examination of on-the-job occupational" services. Qualified medical professionals visit employees at their workplace to conduct comprehensive physical examinations, which include assessing their overall health status, evaluating potential exposure to occupational disease hazards, and performing specialized examinations for occupational diseases. In addition, the medical personnel provide health consultations and guidance on preventive measures.

关键绩效 Key performance

紫江企业下属企业 In all holding subsidiaries of Zijiang Enterprise



职业危害事故

0 起

0 occupational accidents happened



下属企业工亡与物损 50 万元以上安全事故

0 起

0 safety accidents with work-related fatalities or material
damage worth over RMB 500,000 in subsidiaries



特种作业人员持证上岗率

100 %

Certificate-holding rate of special operation: 100%

培养员工安全能力

Cultivating employees' safety capabilities

我们始终将持续提升员工的安全意识与专业能力作为一项重点工作。各企业通过早晚会的形式随时培训管理要点、开展安全知识宣教、举办安全知识竞赛等方式，强化员工的安全意识和能力，实现员工从外在被动模式的“要我安全”，向内生主动模式“我要安全”过渡。

自 2022 年 6 月开始，随着上海工厂逐步结束封控、部分人员重新上岗，各企业开展了复工复产的专题培训，确保离岗时间较长的员工能够安全上岗。

We place a high priority on continuously improving employees' safety awareness and professional capabilities. All subsidiaries reinforce employees' safety awareness and capabilities through various initiatives such as providing training on key management points during the morning and evening briefings, carrying out safety knowledge publicity and education, and holding safety knowledge contests. These efforts aim to empower employees to transition from a passive safety mode to a proactive safety mode.

Since June 2022, as lockdown measures gradually eased and employees began to return to work at our factories in Shanghai, all subsidiaries conducted special training sessions on the resumption of work and production to ensure the work safety of employees who had been away from work for an extended period.

案例 | Case

上海紫江喷铝集思广益改善安全生产环境
Shanghai ZJMP brainstorming on work safety

为充分发挥员工的创造性，不断加强安全意识，上海紫江喷铝开展“金点子”启蒙教育活动，进一步激发全员改善安全生产环境的积极性。活动以过去的安全生产事故案例、网络上的实例为教材，并通过教育交流会的形式促使员工产生改善启发，逐层进行优秀案例评选，并结合优秀小组，优秀员工等活动进行表彰。

To harness the creativity of employees and continually enhance their safety awareness, Shanghai ZJMP launched the "Golden Ideas" enlightenment educational activities. These activities aim to further ignite the enthusiasm of all employees in improving work safety. By utilizing previous work safety incidents and practical examples from the internet as educational materials, these activities inspire employees through interactive exchange meetings. Subsequently, outstanding cases are selected at various levels and recognized alongside other initiatives such as outstanding groups and exceptional employees.



紫东尼龙组织开展安全培训活动
Zidong Nylon organizes safety training activities



南京紫乐饮料安全知识竞赛
The Safety Knowledge Contest of Nanjing Zile Beverage

放飞员工梦想

Empowering
Employees for
Common Progress

在实现高质量发展的道路上，我们将员工视为并肩作战的伙伴。我们持续优化员工权益保障机制，完善员工培养体系，关注员工需求，竭力为员工打造多元化、有温度的职场环境，让员工更有归属感、幸福感。

Employees are our vital partners in our pursuit of high-quality development. Therefore, to enhance their sense of belonging and well-being, we continuously refine our mechanisms to safeguard their rights and interests, enhance our employee training system, and proactively address their needs. Additionally, we strive to foster a workplace culture that embraces diversity and embodies humanistic care.

保障员工权益

Protecting employees'
rights and interests

我们严格遵守《劳动法》《工会法》等相关法律法规，积极落实《人力资源管理规范手册》《管理总部员工手册》等管理政策，杜绝使用童工、严禁强迫劳动、反对任何歧视。我们严格遵守地方最低工资标准，按时足额发放工资，建立员工薪酬增长机制，并对不同性别、国籍、民族、宗教信仰的员工给予充分尊重，致力营造多元包容的工作环境，确保每位员工都能获得公平的职业发展机会。

In strict accordance with Chinese laws and regulations, such as the *Labor Law* and the *Trade Union Law*, Zijiang Enterprise has fully implemented human resource management policies. These include as the *Human Resource Management Manual* and the *Employee Manual at the Management Headquarters*. We strictly prohibit the use of child labor, forced labor, and any form of discrimination. Moreover, we adhere to local requirements regarding minimum wage, ensuring timely and full payment of wages, and have established a mechanism for compensation growth. Committed to fostering a diverse and inclusive working environment, we respect employees regardless of their gender, nationality, ethnicity and religious belief, and strive to provide every employee with equitable career development opportunities.

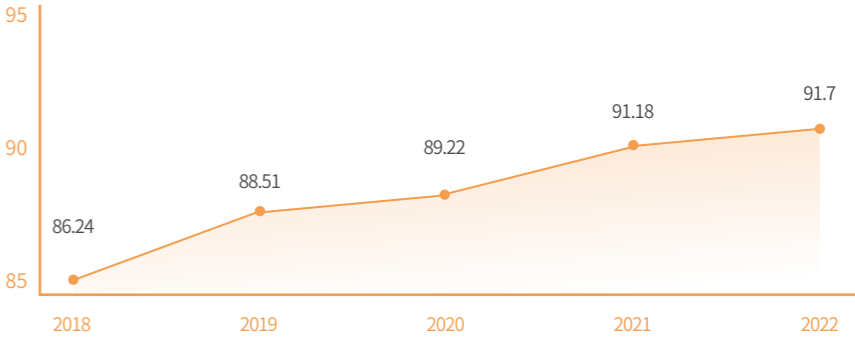
倾听员工诉求

Listening to employee
feedback

我们倾听每位员工的发展诉求，通过《员工敬业度调查问卷》等沟通渠道，鼓励员工积极表达工作与生活中的想法和建议，充分调动员工参与企业决策与经营的热情。自 2005 年以来，我们通过《员工敬业度调查问卷》，了解员工对公司经营管理的认同感与意见建议，2022 年，共有 6,132 名员工参加了问卷调查，占全部员工的 89.7%，敬业度的平均分数 91.7 分，比上年度上升 0.52 分。

We prioritize listening to the career aspirations of each employee and encourage them to actively express their thoughts and suggestions regarding work and life through communication channels such as the *Employee Dedication Survey Questionnaire*, and encourage them to participate in corporate decision-making and operation. Since 2005, we have conducted the *Employee Dedication Survey Questionnaire* on an annual basis to gain insights into employees' sense of identity and gather their valuable suggestions on our business management practices. In 2022, a total of 6,132 employees participated in the survey, representing 89.7% of the entire workforce. The average engagement score reached 91.7, marking an increase of 0.52 points compared to the previous year.

注：
紫江企业敬业度调查下属企业员工覆盖率达 66.67% 及以上，员工总数少于 100 人的下属企业实现全覆盖。
Note:
Zijiang Enterprise ensures comprehensive coverage of its employee dedication surveys, encompassing over 66.67% of employees in each subsidiary. For subsidiaries with fewer than 100 employees, it is mandatory for every employee to participate and provide responses to the questionnaires.



2018-2022 年紫江企业历年敬业度调查情况（上市公司平均）
Scores of Zijiang Enterprise's employee dedication surveys from 2018 to 2022 (the average scores of listed subsidiaries)

关键绩效
Key performance



员工总数
6,838 人
6,838 employees in total

董事会女性成员
1 人
1 female member in the Board of Directors

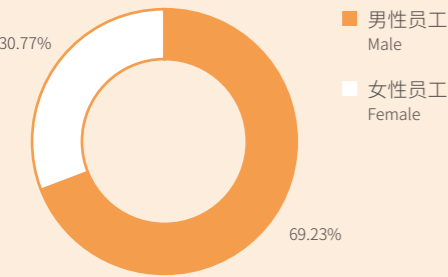
下属企业女性高管比例
14.70%
Percentage of female executives in subsidiaries: 14.70%

残疾员工人数
24 人
Number of employees with disabilities: 24

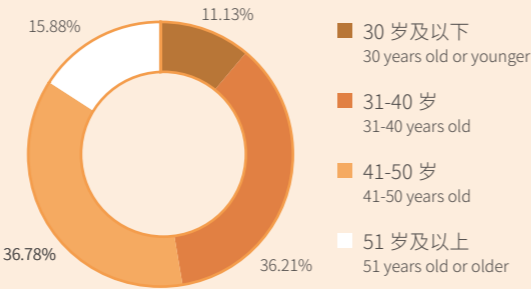
劳动合同覆盖率
100%
Employment contract coverage: 100%

社会保险覆盖率
100%
Social insurance coverage: 100%

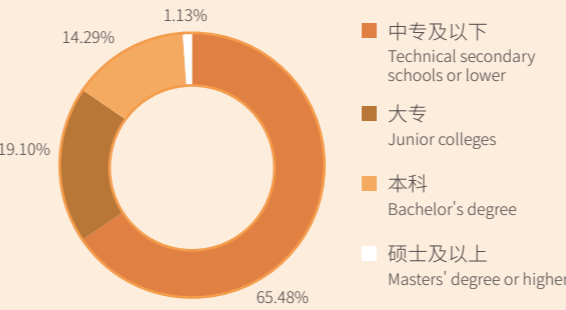
育婴后返岗率
100%
Employees' return rate after parental leave: 100%



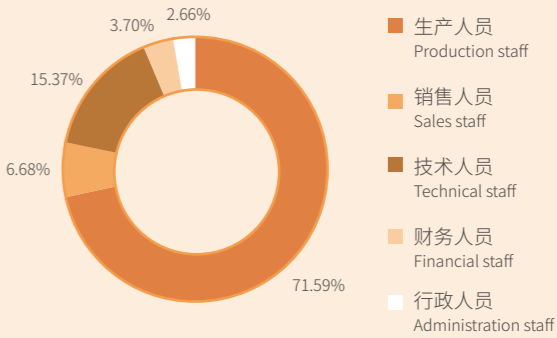
员工性别结构
Breakdown of employees by gender



员工年龄结构
Breakdown of employees by age



员工学历结构
Employee breakdown by education level



员工职能类别结构
Employee breakdown by type of positions

助力员工发展
Supporting employee
development

我们持续建立健全多层次、多形式的人才培训机制，不仅以“一岗多能”“师带徒”等培养模式帮助员工提升职业技能和学历水平，还积极发挥“人才发展领导小组”的作用，围绕《紫江企业人才梯队建设制度》对各类人才进行分层分类管理，发挥公司平台资源优势，助力员工职业发展。

Zijiang Enterprise is committed to establishing a sound multi-level and multi-mode talent training mechanism. For instance, we enhance employees' professional skills and academic qualifications through approaches such as "one post with multiple abilities" and apprenticeship programs. Meanwhile, foster employees' career development, we leverage our resource advantages and utilize the expertise of our "talent development task force". Guided by the *Zijiang Enterprise Talent Development Policy*, we manage talent in a hierarchical and specialized manner.

关键绩效
Key performance



饮料 OEM 事业部以“三层赋能”机制提升员工专业素养
Beverage OEM Business Unit enhances employees' professional literacy with "three-tier empowerment" mechanism

案例 | Case

“上海工匠”让技术传承有“道”
"Shanghai Craftsman" enables proper technology transfer

巩洪亮作为中国共产党上海市第十二次党代会代表、湖北紫丹总经理，是全国仅有的 6 名柔印行业技师之一。巩洪亮用 20 年青春成就“上海工匠”，培养了百位技术骨干。同时，巩洪亮领衔团队创建上海技师创新工作室并获得上海市工人先锋号。这也为整个柔印行业的可持续发展做出了重要贡献。

Gong Hongliang, a representative of the 12th Shanghai Congress of the Communist Party of China and general manager of Hubei Zidan, is one of the only six flexographic technicians in the country. With 20 years of dedication, Gong Hongliang has earned the title of Shanghai Craftsman by nurturing hundreds of technical talents. At the same time, Gong Hongliang led a team to set up the Shanghai Technician Innovation Studio and was awarded the Pioneer Worker title in Shanghai. This has made significant contributions to the sustainable development of the entire flexographic printing industry.



巩洪亮在生产车间为员工进行现场指导
Gong Hongliang provides on-site guidance to employees in the production workshop



紫江企业组织系列技能比武，帮助员工提升技能水平，为员工发展提供平台。
Zijiang Enterprise organizes a series of skills competitions to improve employees' skills and to provide impetus and a platform for employees' development.



紫华科技以机台为单位组织员工进行生产效率大比拼，将创出班产、月产新高的人员或班组载入“龙虎榜”，以此激励员工挑战自我，深化长效管理。
Zihua Technology drives productivity through friendly competition. Each drilling crew is organized into a unit, aiming to achieve new production records on a daily and monthly basis. The top performers are recognized and listed on the honor roll, thus motivating the employees to challenge themselves and deepening the Company's long-term management.



紫江商贸通过制定培训方案、开展区域帮扶，提升门店营业员工作水平。同时，选拔优秀营业员聘为“助理内训师”。
Zijiang Trading develops training programs and offers regional support to improve the working level of salesmen in stores, while selecting outstanding salesmen to be "internal lecturers".



上海紫泉标签刘军刚被评为“2022 年第二届十大印刷工匠”。
Liu Jungang from Shanghai Ziquan Label was honored as one of the "Top 10 Printing Craftsmen in 2022 (second session)".



饮料 OEM 事业部桂林工厂 14 位员工取得大学毕业证。
14 employees from the Beverage OEM Business Unit's Guilin factory receive their university diplomas.

紫江企业组织开展紫江工匠研修班，帮助员工掌握科学改善的方法和工具。
Zijiang Enterprise organizes the Zijiang Craftsman Workshop to equip employees with scientific improvement methods and tools.



焕发员工活力
Energizing employees

我们致力于打造优秀和快乐的组织，通过积极组织运动会、兴趣活动小组等丰富的文娱活动，帮助员工平衡工作与生活，让员工感受到紫江大家庭的关怀与温暖，进一步增强凝聚力。

We are committed to building an exceptional and fulfilling organizational culture. Through proactive initiatives such as organizing a wide range of recreational activities, including sports games and interest-oriented groups, we prioritize the work-life balance of our employees. These activities not only promote a sense of camaraderie but also allow our employees to experience the warm and inclusive atmosphere of the Zijiang family.



紫华企业秋季趣味运动会
Zihua Enterprise holds fun sports games in autumn



紫江企业女性员工欢度女神节
Zijiang Enterprise's female staff celebrate Women's Day

关爱员工生活
Caring for employees

我们始终关注弱势群体和困难员工，并持续加大对女性员工需求和发展的关注力度，竭力维护女性员工的权益及特殊利益，竭力打造温馨的职场氛围。

We always prioritize the well-being of vulnerable workers and employees facing hardships and continuously enhance our focus on meeting the needs and supporting the development of female employees to guarantee their rights and special interests, thereby creating a warm workplace.



纸包装事业部为员工开设茶歇室，改善员工办公环境
The Paper Packaging Business Unit opens a refreshment room to improve employees' office environment



上海紫泉包装举办“智慧女性，从心出发”专题活动
Shanghai Ziquan Packaging holds "Wise Women, Starting from the Heart" special event

困难员工帮扶举措 Initiatives to help employees in difficulty



瓶盖标签事业部
为遭遇火灾的员工筹得超六万元善款；为因心脏疾病长期无法工作的员工申请 1.5 万元帮困金。
Crown Cap & Label Business Unit: Raising over RMB 60,000 for employees affected by in a fire incident and securing a 15,000 yuan assistance fund for employees unable to work long-term due to heart conditions.



容器包装事业部
为 271 名员工做了“职工互助医疗保险”；为 6 名生活困难员工子女提供每年每人 5,000 元的高等教育资助，直至大学毕业。
Container Packaging Business Unit: Providing 271 employees with Employee Mutual Assistance Medical Insurance and offering annual educational assistance of 5,000 yuan per child to support the higher education of 6 employees' children in need, continuing until their graduation from university.



上海紫江彩印
帮助困难员工 18 人，发放困难补贴共 5.23 万元。
Shanghai Zijiang Color Printing: Assisting 18 employees in difficulty and issuing allowance of RMB 52,300.

成就伙伴未来
Building a Shared
Future with
Partners

我们在现有成果上不断探索技术变革、寻找产业升级的契机，携手伙伴搭建沟通交流的平台，分享经验并共同探索包装行业可持续发展新路径。

Building upon our existing accomplishments, we maintain an unwavering commitment to exploring technological advancements and opportunities for industrial upgrading. Together with partners, we promote industry development, build a platform for communication. By sharing experiences and collectively venturing into uncharted territories, we strive to discover new avenues for sustainable development within the packaging industry.

投身行业建设
Contributing to industry
development

我们尽己所能，在追求自身竞争力的同时，也把行业的绿色发展作为己任。2022 年各企业参与《食品接触用环保型涂布纸和纸板材料及制品》《动力软包锂离子蓄电池技术规范》等多项标准制定，为行业高质量发展贡献紫江智慧。

We are dedicated to enhancing our own competitiveness while also assuming the responsibility for promoting green development within the industry. In 2022, we actively participated in the formulation of several standards, including the *Eco-friendly coated paper, paperboard and related products for food contact* and the *General standard for pouch lithium-ion traction battery*, contributing Zijiang's strength to the high-quality development of the industry.



上海紫泉标签被评为中国印刷技术协会特别贡献集体

Shanghai Ziquan Label was awarded as Extraordinary Contribution Collective by the Printing Technology Association of China

案例 | Case

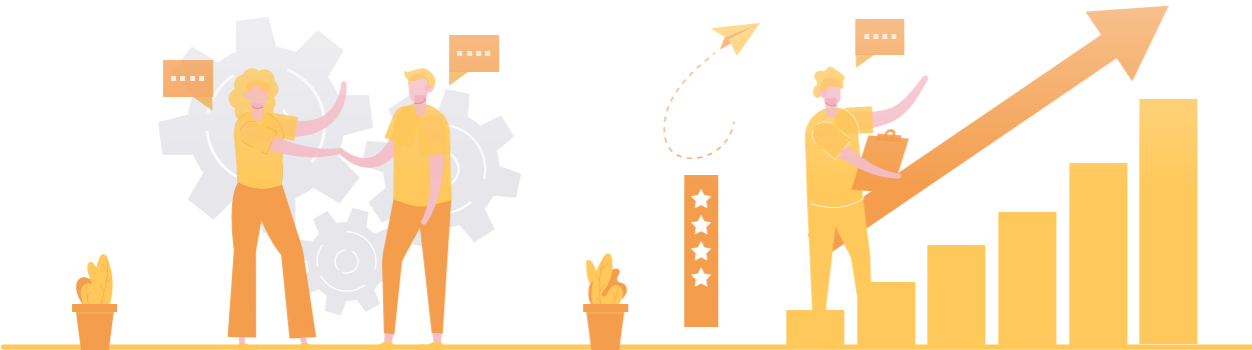
新国标《食品包装应用复合塑料盖膜》正式实施
New national standard for the Laminated lidding film for food packaging has been implemented

上海紫江彩印“适用于多种材质容器的良好使用功能安全封口盖膜的研发项目”被选为上海张江国家自主创新示范区专项发展资金重点项目，公司作为起草单位之一的《食品包装用复合塑料盖膜》国家标准已于 2022 年 7 月实施，对于规范行业、促进市场发展起到积极的作用。

Shanghai Zijiang Color Printing's "R&D project of functional safety lidding film applicable to multiple containers" has consistently been chosen as a key project by the special development fund of Shanghai Zhangjiang National Independent Innovation Demonstration Zone. In addition, as one of the drafters, our company has actively contributed to the implementation of the national standard for Laminated lidding film for food packaging, which came into effect in July 2022. This standard has played a significant role in regulating the industry and promoting market development.

参与国家 / 行业 / 团体标准起草的主要情况
Contributions of Zijiang Enterprise and its subsidiaries to national/industry/group standards

下属企业 Subsidiaries	标准编号 Standard No.	标准名称 Name of standards
紫东尼龙 Zidong Nylon	T/SHBX 004-2023	双向拉伸聚酰胺（BOPA）/ 聚乙烯（PE）复合膜、袋 Biaxially oriented polyamide/polyethylene laminated films and pouches for packaging
紫华科技 Zihua Technology	T/CPA 002-2022	质量分级及“领跑者”评价要求 女性卫生裤 Assessment requirements for quality grading and forerunner - Sanitary absorbent pants for women
	T/CPA 003-2022	质量分级及“领跑者”评价要求 湿厕纸 Assessment requirements for quality grading and forerunner - Flushable wet wipes
上海紫江彩印 Shanghai Zijiang Color Printing	T/SHBX 005-2022	单一材质聚烯烃包装膜、袋 Mono-material polyolefin packaging film, bag
上海紫江喷铝 Shanghai ZJMP	T/CPF 0028-2022	产品质量分级及“领跑者”评价要求 激光全息定位纸 Product quality grading and forerunner evaluation requirements - Laser holographic positioned paper
	T/CPF 0045-2022	包装用转移镀铝纸制品 Transfer metallized paper products for packaging
	T/CPF 0047-2022	绿色设计产品评价技术规范 冷烫印箔 Technical specification for green-design product assessment - Cold stamping foil
	T/CPF 0048-2022	绿色设计产品评价技术规范 全息转移纸 Technical specification for green-design product assessment -Holographic transfer paper
紫江新材料 Zijiang New Material	T/DZJN 111—2022	动力软包锂离子蓄电池技术规范 General standard for pouch lithium-ion traction battery



互利共赢未来
Striving for mutual benefits
for a win-win future

我们始终秉持“为客户创造价值、为自身积累优势、为行业添砖加瓦”的理念，携手客户、供应商等利益相关方，以多元合作、技术讨论、经验交流等方式展开专业层面和市场层面的对话，全力构建更广阔的可持续发展未来。

Upholding the concept of "creating value for customers, building competitive advantages for ourselves, and contributing to the industry," we actively collaborate with customers, suppliers, and other stakeholders. Through diverse cooperation channels, including tech talks, knowledge exchanges, and market discussions, we engage in meaningful conversations on professional knowledge and industry trends. By fostering these collaborations and sharing experiences, we aim to collectively build a brighter and more sustainable future.



紫丹印务凭借在生产技术、产品品质、技术创新方面的不断突破，被亿滋评为“2022 年度 0 缺陷优秀供应商”，并成为亿滋 2022 年度“大中华区战略供应商”。

With continuous breakthroughs in production technology, product quality and technological innovation, Zidan Printing was awarded Excellent Supplier with Zero Defects in 2022 by Mondelēz and became its Strategic Supplier in Greater China in 2022.



- 容器包装事业部荣获可口可乐“社会责任最佳伙伴奖”
The Container Packaging Business Unit was awarded Best Partner Award for Social Responsibility by Coca-Cola
- 紫华科技荣获埃克森美孚“2022 年度高性能聚乙烯 - 优秀合作伙伴”
Zihua Technology was awarded the 2022 High Performing Polyethylene - Outstanding Partner by ExxonMobil
- 上海紫泉包装荣获百威亚太 SSA“创新技术战略联盟最佳配合奖”
Shanghai ZiQuan Packaging won the Best Collaboration Award for Innovative Technology Strategic Alliance from SSA (Supplier Strategic Alliance) of Budweiser Brewing Company APAC
- 紫江国贸荣获欧莱雅宜昌工厂“2022 年最佳合作伙伴奖”
Zijiang Int'l Trade won the 2022 Best Partner Award from L'Oreal's Yichang factory
- 上海紫日包装荣获东鹏饮料“携手共进奖”
Shanghai ZiRi Packaging won the Mutual Progress Award of Dongpeng Beverage
- 紫丹印务荣获美狮杯“包装创新及可持续发展大奖”
Zidan Printing won the Packaging Innovation & Sustainable Development Award of the MUSE Design Awards



饮料包装产业集群共同编撰的《以绿色、精益、创新引领包装行业可持续发展》一文成功入选《CBPC 供应商可持续发展行动集》。

The article *Green, Lean and Innovative Philosophy Leads Sustainable Development in the Packaging Industry*, jointly compiled by the beverage packaging cluster was successfully selected for the *CBPC Supplier Sustainability Development Actions*.

案例 | Case

达能大中华区饮用水及饮料事业部高级副总裁走访南京紫乐饮料
Senior Vice President of Danone's Water & Beverage Business Unit in Great China visited Nanjing Zile Beverage

2022 年，达能大中华区饮用水及饮料事业部高级副总裁 Jaques Ponty 走访饮料 OEM 事业部南京紫乐饮料工厂参观了车间和仓储物流现场。Jaques Ponty 表示，南京紫乐饮料是达能布局华东非常重要的支点，达能将继续加力支持，期待工厂在未来有更优异表现。南京紫乐饮料获达能中国饮料“2022 年度最佳可持续发展供应商”。

Jaques Ponty, Senior Vice President of Danone's Water & Beverage Business Unit China, visited the Nanjing Zile Beverage factory of the Beverage OEM Business Unit in 2022. During his visit, he toured the workshop, storage, and logistics site. expressed his acknowledgment that Nanjing Zile Beverage holds significant strategic importance for Danone in East China. He emphasized Danone's commitment to further enhancing support for the factory and expressed high expectations for its future performance. Nanjing Zile Beverage was awarded 2022 Best Sustainability Supplier by Danone.



Jaques Ponty 走访南京紫乐饮料工厂
Jaques Ponty visits Nanjing Zile Beverage factory

点亮幸福家园
Jointly building a
Better Homeland

在践行可持续发展理念的过程中，我们通过参与社区建设，以捐款、捐物等形式扶贫帮困，弘扬公益精神回馈社会，携手利益相关方共建美好社区和家园。

While practicing the sustainability philosophy, we participate in community building and contribute to poverty alleviation through charitable donations. Carrying forward the spirit of public welfare, we build better communities and homes together with our stakeholders.



纸包装事业部获上海市闵行区马桥镇人民政府颁布的 2022 年度社会公益奖。

The Paper Packaging Business Unit receives the 2022 Social Welfare Award issued by the People's Government of Maqiao Town, Minhang District, Shanghai.



当地社区为紫江商贸连云港公司赠送锦旗，感谢其在防疫中对社区一线志愿者的关爱和援助。

The local community presents a banner to Zijiang Trading Lianyungang Company to express their gratitude for the company's kindness and assistance to the frontline volunteers in the community response to the COVID-19 epidemic.

03 坚持革故鼎新 夯实治理之基

站在新时代的新起点，我们始终铭记“清清白白做人，兢兢业业做事”，持续完善公司治理体系，全面加强风险监测和防控，严格遵守商业道德，为实现公司高质量发展奠定坚实基础，为携手利益相关方共迎新时代蓄势聚力。

Standing at the starting point of the new era, we always bear in mind our motto, "Behave Honestly, Work Sedulously" and continuously improve the corporate governance system. We prioritize risk monitoring, prevention, and control, and strictly adhere to business ethics, establishing a strong foundation for the high-quality development of the Company. Together with our stakeholders, we are poised to embrace the opportunities of the new era.

Consolidating the Foundation of Governance through Reform and Innovation



重点举措 Key Initiatives

- ▷ 完善公司治理
Improving corporate governance
- ▷ 加强风险控制
Strengthening risk control
- ▷ 恪守商业道德
Adhering to business ethics
- ▷ 知识产权保护
Protecting IPRs



关键绩效 Key Performance

- ▷ 女性董事占比
11.11%
11.11 % of directors are female
- ▷ 召开董事会
6次
6 Board meetings held
- ▷ 召开监事会
5次
5 meetings of the Board of Supervisors held
- ▷ 受到过证监会或上海证券交易所处罚或警示
0次
0 warning received from CSRC or SSE

8 体面工作和
经济增长



8 DECENT WORK AND
ECONOMIC GROWTH

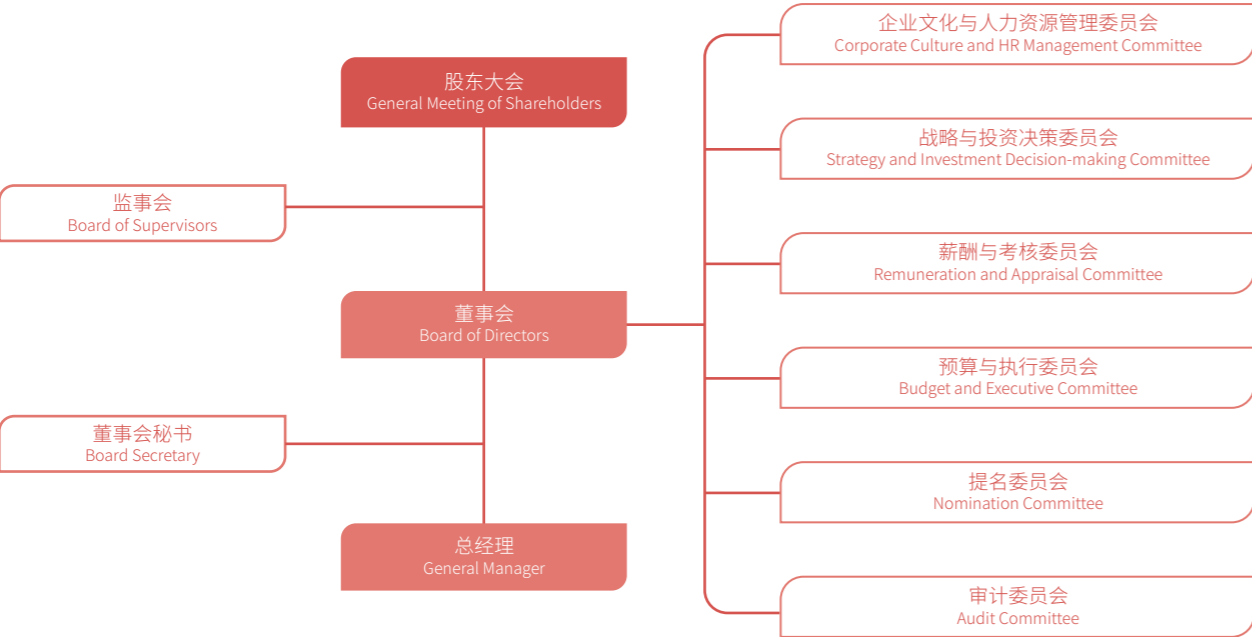


完善公司治理

Improving Corporate Governance

我们严格按照《公司法》《证券法》《上市公司治理准则》，以及中国证券监督管理委员会和上海证券交易所的有关法律、行政法规、部门规章、规范性文件的要求，构建由股东大会、董事会、监事会等现代公司治理架构，促进公司规范运作。

We strictly abide by Chinese laws and regulations, such as the *Company Law*, the *Securities Law*, and the *Code of Corporate Governance for Listed Companies*, as well as rules and regulatory documents of the China Securities Regulatory Commission (CSRC) and Shanghai Stock Exchange (SSE). Through this, we have established a modern corporate governance structure that includes the General Meeting of Shareholders, the Board of Directors (BoD or the Board) and the Board of Supervisors, thus promoting the standardized operation of the Company.



紫江企业治理架构
Corporate governance structure of Zijiang Enterprise

规范董事会建设

Standardizing the Board of Directors

我们严格按照《公司法》《公司章程》《董事会议事规则》《独立董事工作制度》的要求进行。董事会下设企业文化与人力资源管理委员会、战略与投资决策委员会、薪酬与考核委员会、预算与执行委员会、提名委员会、审计委员会等六个专业委员会，充分发挥其在经营管理中的专业作用，提出专业建议，有效辅助董事会工作，为公司科学决策提供了强力的支持。董事会秘书尽职尽责，严格遵守《董事会秘书工作细则》，确保了董事会日常工作的正常开展。

We strictly follow the requirements of the *Company Law*, the *Articles of Association*, the *Rules of Procedure of the Board of Directors*, and the *Work System of Independent Directors*. The six specialized committees under the Board of Directors include: the Corporate Culture and HR Management Committee, the Strategy and Investment Decision-making Committee, the Remuneration and Appraisal Committee, the Budget and Executive Committee, the Nomination Committee, and the Audit Committee. These committees are competent in operation and management and offer professional advice and support to the Board of Directors and the company in making science-based decisions. At the same time, our Board Secretaries fulfill their obligations in accordance with the Rules of Procedures of the Secretary of the Board of Directors to maintain the day-to-day functioning of the Board.

关键绩效 Key performance



女性董事占比
11.11%

11.11 % of directors are female

召开董事会会议
6次

6 Board meetings held

企业文化与人力资源管理委员会 Corporate Culture and HR Management Committee

负责公司统一的企业文化建设，部署人力资源保障工作的方针政策和决策，人力资源培训及管理。It is responsible for building unified corporate culture, planning and decision-making for HR management principles and policies, HR training and management.

战略与投资决策委员会 Strategy and Investment Decision-making Committee

负责对公司中长期发展战略、重大固定资产和无形资产投资项目、对外股权投资项目、资本运营项目进行评估，并审议批准委员会权限范围内的投资项目，并就公司中长期发展战略和超过委员会权限范围的投资项目向董事会提出议案，提请董事会审议批准。It is responsible for evaluation on medium- and long-term development strategies, major fixed assets and intangible assets investment projects, external equity investment and capital operation projects, review and approval of investment projects within its term of reference, and making proposals regarding medium- and long-term development strategies and investment projects beyond its term of reference to Board for its consideration and approval.

薪酬与考核委员会 Remuneration and Appraisal Committee

负责制定公司董事及高级管理人员的考核标准和考核方法，并开展考核；负责制定、审查公司董事及高级管理人员薪酬方案，提交董事会或股东大会批准。It is responsible for formulating appraisal criteria and method for directors and senior management and conducting such appraisal, and formulating and reviewing remuneration package for directors and senior management before submission to the Board or General Meetings of Shareholders for approval.

预算与执行委员会 Budget and Executive Committee

负责制定经营策略和方针，指导经营层在既定方针下开展工作。同时，对公司的预算执行情况实行持续的监察和督导，对公司的运营情况实行跟踪。It is responsible for development of operation strategies and policies, providing guidance for the management to implement pre-defined policy. Meanwhile, it performs ongoing monitoring and supervision to the budget execution and tracks the operation of the Company.

提名委员会 Nomination Committee

负责对公司董事和高级管理人员的人选、选择标准和程序进行选择并提出建议。It is responsible for selecting candidates, shortlisting criteria and procedure for directors and senior managements and making relevant recommendations.

审计委员会 Audit Committee

负责公司内、外部审计的沟通、监督和核查工作。审计委员会的提案提交董事会审议决定。审计委员会应配合监事会的监事审计活动。It is responsible for communication, supervision and verification of internal and external audit of the Company. Proposals of the Audit Committee are submitted to the Board for consideration and decision. The Audit Committee shall facilitate the Board of Supervisors in supervising auditing activities.

规范监事会建设
Standardizing the Board
of Supervisors

我们严格遵循《公司法》《公司章程》《监事会议事规则》有关规定，认真监督公司财务，保护公司资产安全，对公司董事会、管理层决策实施及公司制度执行的合法性进行监督，并对重大事项发表独立意见，维护股东利益。

We strictly follow the relevant provisions of the *Company Law*, the *Articles of Association* and the *Rules of Procedure of the Board of Supervisors* to monitor the Company's financial situation, protect our assets, ensure that decisions made by the Board and management are executed, and enforce the corporate system legally, as well as issue independent opinions on major matters, to safeguard the interests of shareholders.

★ 关键绩效
Key performance



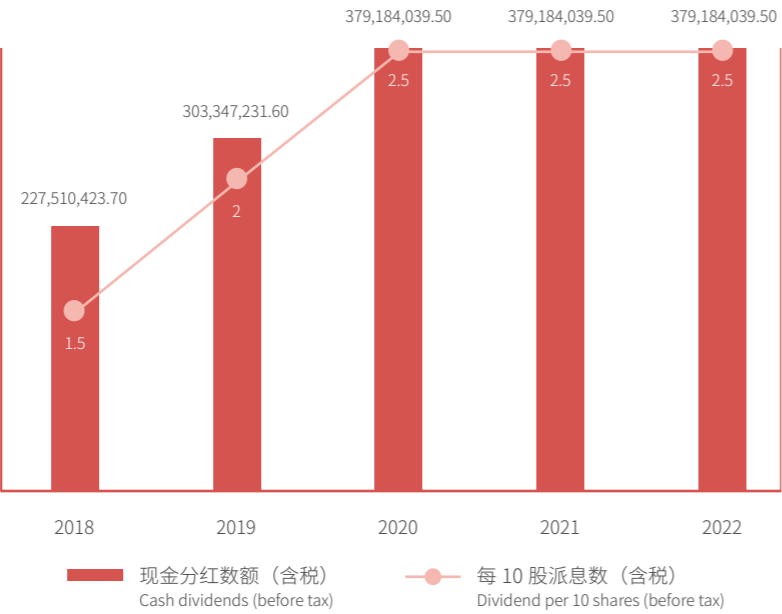
召开监事会 5 次

5 meetings of the Board of Supervisors held

保障投资者权益
Safeguarding investors'
rights and interests

我们严格按照《公司法》《证券法》《公司章程》《公司股东大会议事规则》《信息披露管理制度》等规章制度要求，确保全体股东，尤其是中小股东享有平等权利，并通过建立常态化与动态管理相结合的沟通机制，与投资者进行交流沟通，提高投资者对企业的认知度、认同度。

We observe rules and regulations such as the *Company Law*, the *Securities Law*, the *Articles of Association*, the *Rules of Procedure of the Company's General Meeting of Shareholders* of Shareholders, and the *Information Disclosure Management System*. This ensures that all shareholders, particularly medium and small shareholders, enjoy equal rights. We also establish a communication mechanism that combines regular and dynamic management to enhance investors' awareness and confidence in the Company.



2018-2022 年紫江企业利润分配情况（单位：元）
Zijiang Enterprise's profit distribution from 2018 to 2022 (Unit: RMB)

加强风险控制
Strengthening
Risk Control

我们严格依照《公司法》《证券法》《企业内部控制基本规范》及《企业内部控制应用指引》等法律法规要求持续完善内控管理体系，并在此基础上结合行业特征及企业经营实际，对内控制度进行持续优化，提高了企业决策效率，为企业经营管理的合法合规及资产安全提供了保障，有效促进公司战略的稳步实施。

We keep improving our internal control management system in strict accordance with the laws and regulations such as the *Company Law*, the *Securities Law*, the *Basic Standard for Corporate Internal Control* and the *Guidelines for Corporate Internal*. Building upon this foundation, we optimize our internal control system to align with the characteristics of our industry and the operational realities of the Company. By doing so, we improve the efficiency of corporate decision-making, ensure legal compliance in our operations and management, and safeguard our assets, which effectively promotes the steady implementation of the Company's strategies.

恪守商业道德
Adhering to
Business Ethics

我们严格遵循上交所《股票上市规则》《公司章程》以及各项专门委员会工作制度所规定标准审议公司事项，秉持诚信经营、廉洁自律的商业道德，严格遵守和维护反贿赂、反腐败、反贪污相关的规章制度，积极推进合规管理体系建设，坚持以高水平的依法治企与合规管理能力，夯实企业高质量发展根基。

We review corporate matters in accordance with the *Rules Governing the Listing of Stocks on the Shanghai Stock Exchange*, the *Articles of Association*, and procedures stipulated in the rules of specialized committees. Upholding the business ethics of honest operation and integrity, we strictly observe and defend the rules and regulations related to anti-bribery and anti-corruption. These efforts aim to continuously improve our compliance management system and maintain a high level of corporate governance and compliance management, ultimately fostering high-quality development.

保护知识产权
Protecting IPRs

我们严格按照《商标法》《专利法》等法律法规要求，持续完善知识产权管理体系与保护程序，切实保证知识产权不受侵犯。如上海紫日包装制定《知识产权及技术创新管理制度》，规定其知识产权从申请到授权及维持专利权全过程的保护管理制度。

We continuously improve our management system and protection procedures of intellectual property rights(IPRs) in strict accordance with Chinese laws and regulations, such as the *Trademark Law* and the *Patent Law*. These efforts are aimed at effectively safeguarding our IPRs from infringement. For instance, Shanghai ZiRi Packaging has established the *Intellectual Property Rights and Technological Innovation Management System*, which outlines the procedures for IPR application, authorization, and maintenance.



展望未来

2023 年是贯彻党的二十大精神的开局之年，是实施“十四五”规划承前启后的关键一年，希望与挑战并存。新起点呼唤新作为，我们坚持以习近平新时代中国特色社会主义思想为指导，深入践行新发展理念，将“创新、协调、绿色、开放、共享”融入到生产经营的各个环节，坚定不移地向着可持续发展目标踔厉奋发、勇毅前行。

创新
Innovation

我们将继续以数字化、智能化转型为方向，在巩固和发挥行业技术领先优势的基础上，加大研发投入，提升创新能力，以科技力量和创新动力持续为社会贡献更卓越的产品与更优质的服务。

协调
Coordination

我们将坚持完善“企业安全标准化管理体系”，以“零容忍”的态度维护安全风险防控网络，压实安全生产责任，维护好员工和消费者等利益相关方的健康安全。同时，积极促进上下游协同合作，共创和谐共荣的社区。

绿色
Greenness

我们将持续以技术创新助力绿色发展，从产品设计到生产制造，再到物流运输，将低碳发展和循环经济贯穿于公司生产运营全流程，竭力携手利益相关方共探“双碳”目标实践之路，促进人与自然和谐共生。

开放
Openness

我们将以更加开放包容的心态，携手客户、行业伙伴和供应商，加强交流互动，参与标准制定，在彼此赋能，互相成就的基础上，以多元合作、技术攻坚、经验分享等方式，合力开创高质量发展新局面。

共享
Sharing

我们将秉持“以人为本”的为人才建设理念，持续搭建更广阔的舞台，使员工成长与企业发展相得益彰，积极履行作为企业公民的社会责任，心怀感恩、回馈沃土，以实际行动反哺社会，为推动和谐社区构建贡献紫江力量。

The year 2023 marks the beginning of the implementation of the guiding principles of the 20th CPC National Congress. It is a pivotal year for the ongoing execution of the "14th Five-Year Plan", amidst the coexistence of opportunities and challenges. This new starting point necessitates new actions. Upholding the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will thoroughly implement the new development philosophy. We will integrate the principles of "innovation, coordination, greenness, openness, and sharing" into all facets of our production and operations. With unwavering determination and resilience, we will relentlessly advance toward our enterprise's sustainable development goals.

Adhering to the orientation of digital and intelligent transformation, we will increase our R&D investment to improve our innovation capabilities. Building upon our existing leadership in industry technology, we will consolidate and leverage our leading advantage to further improve our ability to deliver technological advancements and innovations, and continue to provide society with superior products and higher-quality services.

We will persistently enhance our "Enterprise Safety Standardization Management System" and maintain a "zero tolerance" policy towards safety risks. By upholding a robust safety risk prevention and control network, we will diligently carry out routine safety management tasks at all levels, with an aim to effectively ensure the health and safety of stakeholders such as employees and consumers. Meanwhile, we will actively foster collaborative partnerships with stakeholders across the supply chain, promoting coordination to contribute to the stability and growth of our communities.

We remain dedicated to advancing green development through technological innovation. We will integrate the concept of low-carbon development and circular economy into the whole process of our operation, from product design to manufacturing and production, as well as to logistics and transportation. In collaboration with our stakeholders, we will diligently explore the implementation of "carbon peak and carbon neutrality goals". Through these collective efforts, we aim to foster a harmonious coexistence between humanity and nature.

Embracing a more open and inclusive approach, we will join hands with customers, industry partners and suppliers to strengthen communication and interaction, and participate in the formulation of standards. Through mutual support and cooperation, we will leverage each other's strengths to achieve high-quality development. This will be accomplished through diversified collaborations, technological breakthroughs, and sharing of experiences. Together, we will strive to reach new horizons of high-quality development.

Guided by the "people-oriented" talent development philosophy, we remain committed to creating a broader platform where the growth of our employees aligns with the development of our company. We will actively fulfill our social responsibilities as a corporate citizen, expressing gratitude and giving back to society through tangible actions. By doing so, we aim to contribute our strength toward building a harmonious community.

潮平两岸阔，风正一帆悬。新的征程上，我们将始终秉承“清清白白做人，兢兢业业做事”的可持续发展理念，积极回应利益相关方期待，致力于创新发展、绿色低碳、伙伴合作、人才培养、回馈社区，与全社会携手，共赴可持续未来！

Outlook

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As the waters expand at high tide and sail effortlessly catches the gentle breeze, we set forth on a new journey. Guided by our sustainability concept of "Behave Honestly, Work Sedulously," we will steadfastly respond to the concerns and expectations of our stakeholders. We will continue to uphold our commitment to innovative, green, and low-carbon development, fostering partnerships and cooperation, nurturing talent through training, and making meaningful contributions to our communities. In doing so, we will join hands with society as a whole in pursuit of a sustainable future!

关键绩效

指标	单位	2020 年	2021 年	2022 年
经济				
总资产	亿元	110.67	121.60	120.77
营业收入	亿元	84.18	95.29	96.08
利润总额	亿元	6.94	7.61	7.88
每股社会贡献值	元	1.80	2.00	1.92
现金分红数额（含税）	元	379,184,039.50	379,184,039.50	379,184,039.50
受到过证监会或上海证券交易所处罚或警示	次	0	0	0
环境				
实施节能改造项目	项	12	13	4
重点控排企业废气排放量	立方米	90.07	66.08	79.21
重点控排企业污水总排放量	立方米	54,153.00	21,402.00	102,621.00
用电总量	万度	48,025.64	54,208.47	51,676.70
外购电力总量	万度	47,347.64	53,024.59	50,376.70
清洁能源发电量	万度	678.00	1,183.88	1,033.00
天然气使用量	万立方米	242.08	556.35	577.38
外购热力总量	万吨	4.45	10.19	8.57
综合能源消耗总量	吨标准煤	141,024.19	163,418.16	159,255.84
每万元产值电耗	度 / 万元	635.11	619.91	570.31
非化石能源比重	%	1.44	3.66	4.37
危险废物产生总量	吨	1,334.54	1,112.50	1,087.90
危险废弃物产生密度	吨 / 万元	0.0018	0.0013	0.0012
危险废物处置量	吨	1,334.54	1,112.50	1,087.90
危险废物处置合规率	%	100	100	100
无害废弃物产生密度	吨 / 万元	0.0341	0.0329	0.0410
无害废弃物处置率	%	100	100	100
节能改造投入费用	万元	1,299.47	1,659.21	2,422.80
社会				
员工总数	人	7,069	6,899	6,838
残疾员工人数	人	20	19	24
董事会中女性成员	人	1	1	1
育婴后返岗率	%	100	100	100
社会保险覆盖率	%	100	100	100
劳动合同覆盖率	%	100	100	100
职业病危害事故	起	0	0	0

Key Performance Indicators

Indicators	Unit	2020	2021	2022
Economic				
Total assets	RMB billion	11.067	12.16	12.077
Revenue	RMB billion	8.418	9.529	9.608
Total profit	RMB million	694	761	788
Social contribution value per share	RMB	1.80	2.00	1.92
Cash dividends (before tax)	RMB	379,184,039.50	379,184,039.50	379,184,039.50
Penalty or warnings by CSRC or Shanghai Stock Exchange	time	0	0	0
Environmental				
Number of energy-saving transformation projects	-	12	13	4
Total waste gas emissions by key subsidiaries under waste gas treatment control	m³	90.07	66.08	79.21
Total wastewater discharge by key subsidiaries under wastewater treatment control	m³	54,153.00	21,402.00	102,621.00
Total electricity consumption	MWh	480,256.40	542,084.70	516,767.00
Total purchased electricity	MWh	473,476.40	530,245.90	503,767.00
Electricity generated from clean energy	MWh	6,780.00	11,838.80	10,330.00
Natural gas consumption	10,000 m³	242.08	556.35	577.38
Total purchased heat (steam)	10,000 tons	4.45	10.19	8.57
Total energy consumption	Ton of standard coal equivalent	141,024.19	163,418.16	159,255.84
Electricity consumption per RMB 10,000 of output value	kWh/RMB 10,000	635.11	619.91	570.31
Proportion of non-fossil energy	%	1.44	3.66	4.37
Total hazardous waste generated	ton	1,334.54	1,112.50	1,087.90
Intensity of hazardous waste generated	ton/RMB 10,000	0.0018	0.0013	0.0012
Hazardous waste disposal	ton	1,334.54	1,112.50	1,087.90
Compliance rate of hazardous waste disposal	%	100	100	100
Intensity of non-hazardous waste	ton/RMB 10,000	0.0341	0.0329	0.0410
Non-hazardous waste disposal rate	%	100	100	100
Cost of energy-saving transformation	RMB 10,000	1,299.47	1,659.21	2,422.80
Social				
Total employees	-	7,069	6,899	6,838
Number of employees with disabilities	-	20	19	24
Female member in the Board of Directors	-	1	1	1
Employees' return rate after childbirth	%	100	100	100
Social insurance coverage	%	100	100	100
Employment contract coverage	%	100	100	100
Occupational hazard accident	-	0	0	0

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意见反馈表

尊敬的利益相关方：

非常感谢您阅读上海紫江企业集团股份有限公司发布的 2022 年环境、社会及管治报告。为发挥报告的沟通交流作用，有效推进公司的社会责任管理与实践，我们真诚期待您的意见和建议。

1. 您对公司 ESG 报告的总体评价是

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

2. 报告对利益相关方所关心问题的回应和披露？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

3. 您认为紫江企业在经济责任方面做得如何？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

4. 您认为紫江企业在客户服务方面做得如何？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

5. 您认为紫江企业在环境责任方面做得如何？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

6. 您认为紫江企业在安全管理方面做得如何？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

7. 您认为紫江企业在员工责任方面做得如何？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

8. 您认为紫江企业在社区责任方面做得如何？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

9. 您认为本报告的内容安排和版式设计是否方便阅读？

☐ 非常好 ☐ 较好 ☐ 一般 ☐ 较差 ☐ 很差

10. 您对紫江企业履行社会责任及本报告有何意见和建议？

Feedback

Dear stakeholders,

Thank you very much for reading the 2022 ESG Report of Shanghai Zijiang Enterprise Group Co., Ltd. To leverage the role of report for facilitating our communication with all stakeholders and promoting our social responsibility management, we sincerely look forward to your comments and suggestions.

1. Your overall rating of the report:

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

2. What do you think of the report's response to and disclosure of issues concerned by stakeholders?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

3.What do you think of Zijiang Enterprise's fulfillment of economic responsibilities?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

4. What do you think of Zijiang Enterprise's customer service?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

5. What do you think of Zijiang Enterprise's fulfillment of environmental responsibilities?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

6. What do you think of Zijiang Enterprise's safety management performance?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

7. What do you think of Zijiang Enterprise's fulfillment of responsibilities for employees?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

8. What do you think of Zijiang Enterprise's fulfillment of community responsibilities?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

9. What do you think of the readability in terms of structure and design of the report ?

☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very poor

10. Do you have any other comments and suggestions about Zijiang Enterprise's CSR fulfillment and this report?



绿动可持续
Promoting Green Development

共创新未来
Shaping a New Future Together



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