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2023

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

上海紫江企业集团股份有限公司 Shanghai Zijiang Enterprise Group Co., Ltd.

2023 环境、社会及管治报告 2023 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2023年1月1日至2023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4份环境、社会及管治(Environmental, Social and Governance, ESG)报告。

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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年可持续发展议程》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

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|------------|----------------|--------|-----------------|
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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, 2023 to December 31, 2023. The report is published annually, with some information dating back to previous years or referring to later years appropriately. This is the Fourth 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 | Abbreviations | Full name |
|-------------------------------------|--|----------------------------------|--|
| Zijiang Enterprise, the Company, we | Shanghai Zijiang Enterprise Group Co., Ltd. | Hubei Zidan Packaging Technology | HuBei Zidan Packaging Technology Co.,Ltd. |
| Shanghai Ziquan Packaging | Shanghai Ziquan Packaging Co., Ltd. | Shanghai Ziquan Beverage | Shanghai Ziquan Beverage Industry Co., Ltd. |
| Shanghai Ziquan Label | Shanghai Ziquan Label Co., Ltd. | Shenyang Ziquan Beverage | Shenyang Ziquan Beverage Industry Co., Ltd. |
| Shenyang Zijiang Packaging | Shenyang Zijiang Packaging Co., Ltd. | Chengdu Ziquan Beverage | Chengdu Ziquan Beverage Industry Co., Ltd. |
| Chengdu Zijiang Packaging | Chengdu Zijiang Packaging Co., Ltd. | Yichang Ziquan Beverage | Yichang Ziquan Beverage Industry Co., Ltd. |
| Shijiazhuang Zijiang Packaging | Shijiazhuang Zijiang Packaging Materials Co., Ltd. | Nanjing Zile Beverage | Nanjing Zile Beverage Industry Co., Ltd. |
| Guangzhou Zijiang Packaging | Guangzhou Zijiang Packaging Co., Ltd. | Shanghai Zijiang Color Printing | Shanghai Zijiang Color Printing & Packing Co., Ltd. |
| Qionglai Zijiang Packaging | Qionglai Zijiang Packaging Products Co.,Ltd. | Shanghai ZJMP | Shanghai Zijiang Metallization Environmental Protection Material Co., Ltd. |
| Xi'an Zijiang Enterprise | Xi'an Zijiang Enterprise Co., Ltd. | Anhui ZJMP | Anhui Zijiang Metallization Environmental Protection Material Co., Ltd. |
| Tangshan Zijiang Packaging | Tangshan Zijiang Packaging Materials Co., Ltd. | Zihua Enterprise | Shanghai Zihua Enterprise Co., Ltd. |
| Shanghai ZIRI Packaging | Shanghai ZIRI Packaging Co., Ltd. | Zihua Technology | Shanghai Zihua Film Technology Co., Ltd. |
| Shenyang ZIRI Packaging | Shenyang ZIRI Packaging Co., Ltd. | Zijiang New Material | Shanghai Zijiang New Material Technology Co., Ltd. |
| Guangdong ZIRI Packaging | Guangdong ZIRI Packaging Co., Ltd. | Zidong Nylon | Shanghai Zidong Nylon Material Technology Co., Ltd. |
| Sichuan ZIRI Packaging | Sichuan ZIRI Packaging Co., Ltd. | Ziyan Alloy | Shanghai Ziyan Alloy Application Technology Co., Ltd. |
| Shanghai Zidan Food | Shanghai Zidan Food Packaging & Printing Co., Ltd. | Zijiang Int'l Trade | Shanghai Zijiang International Trading Co., Ltd. |
| Zidan Printing | Shanghai Zidan Printing Co., Ltd. | Zijiang Trading | Shanghai Zijiang Trading Holding Co., Ltd. |
| Zidan Packaging Technology | Shanghai Zidan Packaging Technology Co.,Ltd | Zijiang Plastic Bottle | Shanghai Zijiang Plastic Bottle Manufacture Co., Ltd. |

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高管致辞

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2023年是紫江企业2023-2025年战略的开局之年。在这一轮战略目标的实施中，我们坚持以“创新”“高效”为宗旨，提升企业绿色竞争力，夯实企业高质量发展的基础。

”

我们加快“数”“智”赋能，构建更清晰的指标体系，追求精益与高效。

“高效”是制造业企业生存与绿色发展的重要基石。在企业内部维度，我们将“人机效率”的提升纳入三年战略指标体系。企业以提升全时间OEE指标和单位人力成本工业增加值为管理要素并分解指标，减少各种不必要的停机，提高产品合格率，确保资产、资源、资料投入的有效性，全面提升效率指标，同时实现节能减排。

对制造业工厂的数字化与智能化赋能，是传统企业发展新质生产力的必然需求。我们把容器包装事业部设备联网、能耗数字化管理的成功经验分享到所有企业，并正式将工厂信息化管理系统建设纳入规划与逐步实施。2023年，上海紫丹食品被认定为工信部及上海市智能制造示范工厂，并获评“国家级智能工厂”。

我们致力于多种形式的创新，为行业进步、构建绿色供应链贡献紫江力量。

在客户维度，我们始终秉承开放原则，愿意将在包装印刷行业近40年积累的管理与技术经验共享给战略合作方，与客户协同创新与合作，深化产业链之间的融合合作——工序优化、省略中间环节，降低物流成本、减少对社会资源的占用，最终实现与责任客户在绿色循环经济建设中的共赢。

我们始终牢记包装企业在国家生态文明建设中的使命，因而高度重视研发与技术创新工作。均质化材料、锂电池薄膜、各种纸代塑新品与减克重产品的成功研发，为与责任客户共同践行绿色低碳责任并引导中小客户进步发挥了积极作用。2023年我们拥有高新技术企业21家，下属企业获得授权专利285项，其中发明专利38项。上海紫江彩印、上海紫丹食品积极参与多项国家标准的制订。安徽紫江喷铝荣获省“专精特新”冠军企业称号；上海紫丹食品、沈阳紫江包装、武汉紫江企业、广州紫江包装新获省市级“专精特新”企业认定。紫江企业获评国家新闻出版署创新引领类印刷示范企业荣誉称号。

我们高度重视环境管理，继续加大环境治理的投入和治理力度。

在此轮战略中，我们将环保治理数据化、指标化，并列入战略细分指标的管控体系，各企业制订了明确的三年改善方案。2023年，我们在环保治理上投入4,888.85万元，同比增加27.52%；综合能源消耗总量141,497.74吨标准煤，同比下降11.15%；累计新增光伏安装面积291,567平方米，同比增加38.5%。沈阳紫泉饮料、安徽紫江喷铝入选省级绿色工厂名单，成为紫江企业旗下的第8、9家绿色工厂。继2022年南京紫乐饮料率先实现碳中和认证之后，2023年，上海紫丹食品、紫丹包科、唐山紫江包装、邛崃紫江包装、西安紫江企业成为紫江企业旗下的第二批碳中和工厂。

我们聚焦员工成长，持续完善安全管理体系，实现与各利益相关方的“美美与共”。

我们持续推进人才梯队建设，通过卓越运营集训班以及上海开放大学校企合作项目等多种方式，培养紫江工匠。同时我们也尝试打通岗位间的壁垒，一岗多能、一人多岗，让员工在紫江这个大舞台上更好地实现自身的价值。我们同样通过安全体系的不断完善，提升员工安全技能，为员工创造更安全、更健康的工作环境。

大道如砥，壮阔无垠。在新中国成立75周年之际，紫江企业正面临全面落实新三年战略目标的关键节点。在发展“新质生产力”的时代洪流中，我们正加强学习，持续提升企业可持续发展的底气！

Message from the Senior Management

“

The year of 2023 marked the inaugural year for Zijiang Enterprise to implement the 2023-2025 Strategic Roadmap. In pursuit of the strategic goals outlined for 2023-2025, we are dedicated to enhancing our green capabilities and reinforcing the foundation for high-quality progress. We are committed to pursuing innovation-driven and efficiency-focused development to achieve these

”

By accelerating digital and intelligent empowerment, and establishing a clearer indicator framework, we propelled lean operations and high productivity.

"Efficiency" is paramount for the survival and sustainable growth of manufacturing enterprises. At Zijiang Enterprise, we have embedded the concept of enhancing both human resources and machinery efficiency into our three-year strategic indicator framework. By meticulously managing breakdown indicators geared towards maximizing Overall Equipment Effectiveness (OEE) and increasing the Value Added Per Unit of Labor Cost, we aim to minimize downtime, enhance product quality, and ensure optimal utilization of assets, resources, and materials. Through these efforts, we not only drive efficiency improvements across the organization but also contribute to our energy conservation and emission reduction objectives. The digital and intelligent empowerment of manufacturing factories is crucial for traditional enterprises to develop new and high-quality productive capabilities. We have shared the successful experiences of the Container Packaging Business Unit in equipment networking and digitalizing energy consumption across the Company. Furthermore, we have formally placed the development of a manufacturing information system on our agenda and begun its phased implementation. In 2023, the Ministry of Industry and Information Technology (MIIT) and the Shanghai Municipal Government recognized Shanghai Zijiang Food as a Smart Manufacturing Demonstration Factory, bestowing upon it the prestigious title of a "National Intelligent Factory".

Through multi-form innovation, we did our part to advance the industry and build a green supply chain.

Embracing the principle of openness for our customers, we are delighted to have shared our 40 years of management and technical experience in the packaging and printing industry with our strategic partners. Our goal is to deepen integrated cooperation across the industrial chain through innovation and collaboration with customers. For example, we have made collaborative efforts to streamline workflows, eliminate intermediaries, reduce logistics costs, and minimize the consumption of social resources. These efforts have ultimately led to mutual success in building a circular economy with responsible customers.

Bearing in mind the mission of a packaging enterprise in the national ecological civilization construction, we prioritize R&D and technological innovation. With the successful development of homogenized materials, lithium battery films, various paper alternatives to plastic products, and lightweight products, we have furthered our commitment to green and low-carbon responsibilities alongside responsible customers, while also guiding progress for small- and medium-sized companies. As of the end of 2023, we owned 21 high-tech subsidiaries, and our subsidiaries obtained 285 authorized patents, including 38 invention patents. Notably, Shanghai Zijiang Color Printing and Shanghai Zijiang Food actively contributed to the formulation of several national standards. Moreover, we have been honored with the following awards for innovation: Anhui ZJMP championed the title of provincial "specialized and sophisticated" enterprise; Shanghai Zijiang Food, Shenyang Zijiang Packaging, Wuhan Zijiang Enterprise, and Guangzhou Zijiang Packaging were newly recognized as provincial and municipal "specialized and sophisticated" enterprises; and Zijiang Enterprise was rated as a National Leading Innovative Printing Demonstration Enterprise by the National Press and Publication Administration.

With great emphasis on environmental management, we ramped up spending and efforts in environmental governance.

In the 2023-2025 Strategic Roadmap, we adopted a quantitative approach to environmental governance and incorporated related data and indicators for managing strategic sub-goals. Each subsidiary has devised a clear three-year improvement program. In 2023, we invested RMB 48,885 million in environmental governance, marking a significant year-on-year increase of 27.52%. Our total energy consumption amounted to 141,497.74 tons of standard coal, reflecting a notable year-on-year decrease of 11.15%. Furthermore, the photovoltaic area expanded to 291,567 m², representing a substantial increase of 38.5% compared to the previous year. Both Shenyang Ziquan Beverage and Anhui ZJMP were recognized on the provincial list of green factories, making them the 8th and 9th green factories under Zijiang Enterprise, respectively. Following the carbon neutrality certification achieved by Nanjing Zile Beverage in 2022, Shanghai Zidan Food, Zidan Packaging Technology, Tangshan Zijiang Packaging, Qionglai Zijiang Packaging, Xi'an Zijiang Enterprise became the second batch of Zijiang Enterprise subsidiaries to achieve carbon neutrality in 2023.

Focusing on employee growth, we kept refining the safety management system to achieve a "shared success" with all stakeholders.

We are committed to talent building. Through initiatives like the Excellent Operation Program and the school-corporate cooperation program sponsored by Shanghai Open University, we aim to cultivate technicians for Zijiang Enterprise. Additionally, we promote role integration by providing multi-skilling and cross-training opportunities to our workforce. This empowers employees to handle multiple roles effectively and achieve greater self-fulfillment within Zijiang Enterprise. Additionally, we continuously refine our safety management system and enhance employees' safety skills to foster a safer and healthier working environment.

As we look ahead, the future is brimming with endless opportunities and possibilities. In 2024, as we commemorate the 75th anniversary of the People's Republic of China, it also signifies a significant milestone for Zijiang Enterprise as we fully implement our new three-year strategic objectives. To capitalize on the development of "high-quality productive capabilities," we are committed to diligent learning and empowerment for our sustainable development journey!

责任紫江

Zijiang CSR Overview

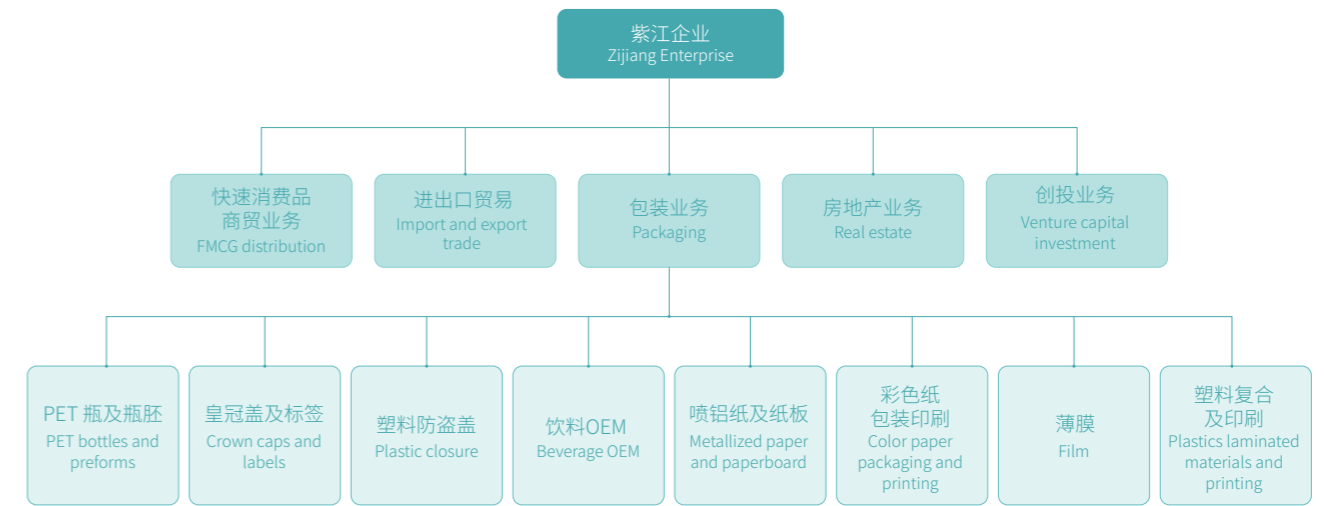
上海紫江企业集团股份有限公司（股票代码：600210；股票简称：紫江企业）成立于1988年，于1999年8月在上海证券交易所挂牌上市。注册资本1,516,736,158元。在制造业领域，公司主营生产和销售PET瓶与瓶坯、塑料防盗盖、皇冠盖、塑料标签、塑料彩色印刷及复合包装、纸制品包装、饮料OEM、喷铝纸及纸板、铝塑膜、BOPA膜、工业用塑胶容器、镁合金产品及其他新型材料，在生产规模、技术水平、质量水平等方面处于国内行业领先地位。

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.



自成立30余年以来，紫江企业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

担责于身 CSR KPIs

环境履责绩效
Environmental Performance环保治理投入 **4,888.85** 万元同比增加 **27.52** %

RMB 48.8885 million invested in environmental protection, a year-on-year increase of 27.52%

综合能源消耗总量 **141,497.74** 吨标准煤同比下降 **11.15** %

The total energy consumption was 141,497.74 tce, a year-on-year decrease of 11.15%

累计新增光伏安装面积 **291,567** 平方米同比增加 **38.5** %The photovoltaic area expanded to 291,567 m², a year-on-year increase of 38.5%清洁能源发电量 **1,985.6** 万度同比增加 **92.22** %

19.856 GWh of power generated by clean energy, a year-on-year increase of 92.22%

节能改造投入费用 **1,975.53** 万元

RMB 19.7553 million invested in energy-saving transformation

废气、废水达标排放率 **100** %

Up-to-standard discharge rate of waste gas and wastewater: 100%

实现碳中和的工厂数量 **6** 家

6 factories have been certified as carbon neutral

无害废弃物社会循环利用率 **96.44** %

Recycling rate of harmless waste across the whole society: 96.44%

社会履责绩效
Social Performance员工总数 **6,936** 人
6,936 employees in totalKPI 员工敬业度平均分 **92.4** 分
Average score of employee dedication: 92.4社会保险覆盖率 **100** %
Social insurance coverage: 100%残疾员工人数 **26**
26 employees with disabilities

职业病危害事故

0 起
0 occupational hazard accident

0 occupational hazard accident

紫江企业各事业部及下属企业公益捐赠金额

417.8 万元
RMB 4.178 million of charitable donations made by the Business Units and subsidiaries

RMB 4.178 million of charitable donations made by the Business Units and subsidiaries

经济履责绩效
Economic Performance总资产 **136.94** 亿元
Total assets: RMB 13.694 billion利润总额 **7.40** 亿元
Total profit: RMB 740 million申请专利数 **300** 项
300 patent applications获得发明专利 **38** 项
38 invention patents authorized新增国家级高新技术企业认证 **3** 家
3 more subsidiaries certified as national high-tech enterprises营业收入 **91.16** 亿元
Revenue: RMB 9.116 billion每股社会贡献价值 **2.07** 元
Social contribution value per share: RMB 2.07获得授权专利 **285** 项
285 authorized patents获得实用新型专利 **236** 项
236 utility model patents authorized获批上海市专利工作试点单位 **2** 家
2 subsidiaries approved as Shanghai Patent Pilot Units

履责于行 CSR Actions

1月 In January

广州紫江包装被认定为省创新型中小企业、省级“专精特新”企业。

Guangzhou Zijiang Packaging was recognized as a provincial innovative small and medium-sized enterprise and a provincial "specialized and sophisticated" enterprise.

2月 In February

上海紫丹食品纸包装智能工厂入选“上海市100家智能工厂名单”；成都紫江包装获四川省服务型制造示范企业资质。

Shanghai Zidan Food Paper Packaging Intelligent Factory was shortlisted as one of the "100 Intelligent Factories in Shanghai", and Chengdu Zijiang Packaging was awarded the qualification of Sichuan Province's service-oriented demonstration enterprise of manufacturing.

3月 In March

上海紫丹食品、上海紫江喷铝、紫华科技获上海市“专精特新”企业称号。

Shanghai Zidan Food, Shanghai ZJMP, and Zihua Technology were recognized as "specialized and sophisticated" enterprises in Shanghai.

4月 In April

武汉紫江企业被认定为省级“专精特新”企业。

Wuhan Zijiang Enterprise was recognized as a provincial "specialized and sophisticated" enterprise.

5月 In May

沈阳紫江包装被认定为省级“专精特新”企业，上海紫泉饮料获评上海市节约用水示范（标杆）企业；紫江企业召开2023-2025年战略地图发布会议。

Shenyang Zijiang Packaging was recognized as a provincial "specialized and sophisticated" enterprise, and Shanghai Ziquan Beverage was awarded the title of Shanghai Water Conservation Demonstration (Benchmark) Enterprise, and Zijiang Enterprise held a strategic map release meeting for 2023-2025.

6月 In June

紫江企业向上海市闵行区春申教育发展基金会捐赠100万元。

Zijiang Enterprise donated RMB 1 million to the Chunshen Education and Development Foundation in Minhang District, Shanghai.

7月 In July

紫江企业被国家新闻出版署中宣部印刷发行局认定为2023国家印刷示范企业，成为上海市首家国家印刷示范企业。

Zijiang Enterprise was recognized by the Printing and Distribution Bureau of the CPC Publicity Department of the National Press and Publication Administration as a National Leading Innovative Printing Demonstration Enterprise in 2023, making it the only Shanghai-based enterprise to win the title.

8月 In August

紫江企业位列《印刷经理人》“2023中国印刷包装100强排行榜”第四位；安徽紫江喷铝被认定为省绿色工厂。

Zijiang Enterprise ranked fourth on the 2023 China's TOP 100 Printing and Packaging Enterprises List by the Printing Manager magazine, and Anhui ZJMP was recognized as a provincial green factory.

9月 In September

紫江企业荣登“上海制造业企业100强”第35位、“上海民营企业100强”第51位、“上海民营制造业企业100强”第18位。

Zijiang Enterprise ranked 35th in the Top 100 Manufacturing Enterprises in Shanghai, 51st in the Top 100 Private Enterprises in Shanghai, and 18th in the Top 100 Private Manufacturing Enterprises in Shanghai.

10月 In October

上海紫日包装获第三届“上海轻工知名品牌（产品）”称号；紫江企业荣登“2022年度中国包装百强企业”第8位和“中国包装百强企业塑料包装类”第3位。

Shanghai ZIRI Packaging was recognized as the "Famous Brand (Product) of Light Industry in Shanghai" in the third International Bright Cup, and Zijiang Enterprise ranked 8th in the "2022 China's Top 100 Packaging Enterprises" and 3rd in the "China's Top 100 Packaging Enterprises of Plastic Packaging".

11月 In November

上海紫丹食品获评“国家级智能工厂”；沈阳紫泉饮料获评省级绿色工厂；上海紫泉标签获评中国标签印刷业品牌影响力食品及日化标签类全国5强。

Shanghai Zidan Food was recognized as a "National Intelligent Factory", Shenyang Ziquan Beverage was recognized as a "Provincial Green Factory", and Shanghai Ziquan Label was recognized as "China's Top 5 Enterprises in the Label Printing Industry with Brand Influence under the Food and Household Chemicals Label Category".

12月 In December

安徽紫江喷铝荣获省级“专精特新”冠军企业称号；南京紫乐饮料入选2023年江苏省智能制造示范车间。

Anhui ZJMP championed the title of provincial "specialized and sophisticated" enterprise, and Nanjing Zile Beverage was recognized as Jiangsu Intelligent Manufacturing Demonstration Workshop in 2023.

知责于心

CSR Commitment

“清清白白做人，兢兢业业做事”是紫江人的座右铭。我们以此为行为准则，追求企业与员工的健康成长，在为社会创造物质财富的同时，携手各利益相关方，夯实企业可持续发展的基础，推动行业进步，为中国式现代化贡献紫江力量。

The motto of Zijiang Enterprise is "Behave Honestly, Work Sedulously". Taking this as our code of conduct, we pursue the healthy growth of both the Company and our employees. While producing material wealth for society, we join hands with all stakeholders to solidify the foundation for corporate sustainable development, drive progress of the industry, and do our part in China's modernization.



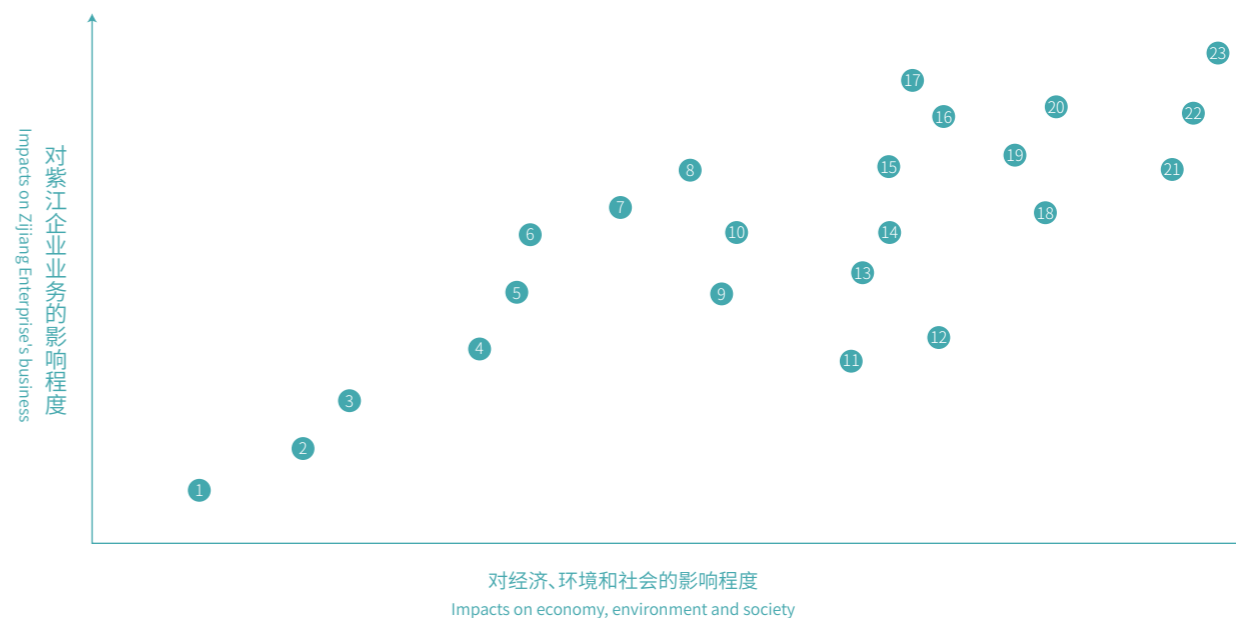
2019-2023年紫江企业每股社会贡献值 (单位: 元)
Social contribution value per share of Zijiang Enterprise from 2019 to 2023 (unit: RMB)

实质性议题分析

Materiality analysis

我们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，分别从“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，确定实质性议题及优先级，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.



| | | |
|---|--|---|
| 1 社区投资与参与 Community investment and engagement | 9 能源管理 Energy management | 17 客户关系管理 Customer relations management |
| 2 民主管理 Democratic management | 10 危险废弃物管理 Hazardous waste management | 18 应急管理 Emergency management |
| 3 福利与关爱 Benefits and care | 11 水资源管理 Water resource management | 19 产品创新 Product innovation |
| 4 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 |
| 5 吸引与留用 Attraction and retaining | 13 废气管理 Waste gas management | 21 安全风险识别与管控 Safety risk identification and management |
| 6 贡献行业发展 Contributions to industry development | 14 培训与发展 Training and development | 22 道德与合规 Ethnic and compliance |
| 7 精益&智能管理 Lean and intelligent management | 15 风险管理 Risk management | 23 产品质量安全管理 Product quality and safety management |
| 8 供应链管理 Supply chain management | 16 碳排放管理 Carbon emission 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

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。

Stakeholder engagement

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 ★ 接待投资者来访 Receiving visiting investors ★ 交易互动平台 Trading and interactive platforms | <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 ★ 志愿公益 Volunteer services ★ 残疾人招聘 Recruitment for the disabled |



数绿融合 勇于创新

紫江企业作为参与“双碳”目标实现的主体,致力于携手伙伴积极应对气候变化挑战,高效推进绿色循环与低碳发展,书写美丽中国的紫江篇章。

Driving Digitized and Green Development through Innovation

As a key facilitator in achieving the carbon peak and carbon neutrality goals, Zijiang Enterprise pledges to collaborate with partners in actively tackling the challenges posed by climate change. We are dedicated to promoting green and low-carbon circular development in an efficient manner, thereby playing our part in creating a more environmentally sustainable China.



我们的举措 Our initiatives

- 智创绿色制造
Strengthening intelligent and innovative green manufacturing
- 构筑绿色供应链
Building green supply chains
- 坚持环境治理
Upholding environmental governance
- 应对气候变化
Addressing climate change
- 聚焦节能减排
Focusing on energy conservation and emission reduction
- 凝聚绿色共识
Building consensus on green practices



我们的成效 Our performance

- 紫江企业获国家新闻出版署创新引领类印刷示范企业荣誉称号
Zijiang Enterprise was rated as a National Leading Innovative Printing Demonstration Enterprise by the National Press and Publication Administration.
- 新增国家级高新技术企业认证**3**家
3 more subsidiaries certified as national high-tech enterprises
- 节能改造投入**1,975.53**万元
RMB 19.7553 million invested in energy-saving transformation
- 新增省级绿色工厂**2**家
2 more provincial-level green factories

智创绿色制造

Strengthening Intelligent and Innovative Green Manufacturing

作为快消品包装与新兴材料的直接制造者，紫江企业以技术研发为引擎，以高效的工厂运营为后盾，尝试工厂数字智能化管理，以更富竞争力、发展力、持续力的绿色包装材料与产品增强自身竞争力，助力责任客户实现产品迭代升级与可持续发展。

As a direct manufacturer of FMCG packaging and emerging materials, Zijiang Enterprise explores digital and intelligent factory management through ongoing technological research and development, alongside efficient factory operations. Our objective is to assist customers with CSR requirements in achieving product iteration, upgrading, and sustainability. This is accomplished through the development of more competitive, promising, and sustainable green packaging materials and products, thereby enhancing our own competitiveness in the process.

科技创新

Scientific innovation

我们持续增加对绿色产品的研发投入，致力于汇聚、培养技术创新人才和团队，通过不断优化科技创新管理和激励机制，充分调动员工的积极性和主动性，投入资源推动创新场景落地，激活技术创新的一池“春水”。

We continue to increase our investment in green product R&D while diligently attracting and nurturing talents and teams proficient in technological innovation. By implementing more comprehensive technological innovation management and incentive mechanisms, we unleash the full potential of our employees' enthusiasm and initiative. Furthermore, we allocate resources towards the realization of innovation scenarios to invigorate technological advancements.

关键绩效 Key Performance

研发投入同比上升

0.28 %

Year-on-year increase in R&D investment: 0.28%

申请专利数

300 项

300 patent applications

获得授权专利

285 项

285 authorized patents

获得发明专利

38 项

38 invention patents authorized

获得实用新型专利

236 项

236 utility model patents authorized

新增国家级高新技术企业认证

3 家

3 more subsidiaries certified as national high-tech enterprises

获批上海市专利工作试点单位

2 家

2 subsidiaries approved as Shanghai Patent Pilot Units



奖项荣誉
Honors and Awards

- 紫江企业获国家新闻出版署创新引领类印刷示范企业荣誉称号
Zijiang Enterprise was recognized as a National Leading Innovative Printing Demonstration Enterprise by the National Press and Publication Administration.
- 上海紫江彩印获评上海市创新型中小企业
Shanghai Zijiang Color Printing was recognized as an innovative small and medium-sized enterprise in Shanghai.
- 上海紫丹食品、上海紫江喷铝、紫华科技获得“上海市专精特新企业”称号
Shanghai Zidan Food, Shanghai ZJMP, and Zihua Technology were recognized as "specialized and sophisticated" enterprises in Shanghai.
- 广州紫江包装获得广东省“专精特新”企业、广东省创新型中小企业认定
Guangzhou Zijiang Packaging was recognized as Guangdong provincial "specialized and sophisticated" enterprise and Guangdong provincial innovative small and medium-sized enterprise.
- 安徽紫江喷铝入选安徽省“专精特新”冠军企业名单
Anhui ZJMP championed the title of Anhui provincial "specialized and sophisticated" enterprise.
- 紫江新材料通过工信部及上海市“专精特新”小巨人称号复审
Zijiang New Material passed the review of the "little giant" specialized and sophisticated enterprise by the MIIT and Shanghai.
- 上海紫日包装获得第三届“上海轻工知名品牌（产品）”称号
Shanghai ZIRI Packaging was recognized as the "Famous Brand (Product) of Light Industry in Shanghai" in the third International Bright Cup.

广东紫日包装提升员工创新主动性举措

Measures to enhance employees' innovation initiatives by Guangdong ZIRI Packaging

培训与发展
Training and development

- ▶ 组织提升员工创新思维和技能的内部培训、研讨会，学习最新的管理理论方法、行业趋势等；
- ▶ 鼓励员工参加外部培训、活动。
- ▶ Organizing internal training and seminars to enhance employees' innovative thinking and skills and learn the latest management theories, methods, and industry trends;
- ▶ Encouraging employees to participate in external training and trends.

跨部门合作
Cross-department collaboration

- ▶ 设立跨部门项目组；
- ▶ 加强不同部门合作，鼓励员工跨部门交流，帮助员工更好地理解公司整体运营情况。
- ▶ Establishing cross-department project teams;
- ▶ Strengthening cooperation between different departments, encouraging employees to communicate across departments, and helping employees better understand the overall operation of the Company.

创新奖励机制
Innovation incentive mechanism

- ▶ 建立、完善创新奖励机制，对于提出优秀创新想法并付诸实践的员，给予一定的奖励和表彰。
- ▶ Establishing and improving the innovation incentive mechanism which rewards employees for their excellent innovative ideas and practices.

扁平化管理
Flat management

- ▶ 实施扁平化管理，减少层级关系，让员工更自由地表达意见和想法，促进交流合作，加速创新思想的产生和实施。
- ▶ Encouraging free exchanges of opinions and ideas among employees through flat management and streamlining hierarchies to promote communication and cooperation, and encourage more innovative ideas.

案例 Case 紫江企业成为上海市唯一一家“创新引领类国家印刷示范企业”

Zijiang Enterprise becomes the only national leading innovative printing demonstration enterprise in Shanghai

2023年，国家新闻出版署公示了2023年国家印刷示范企业终审结果，在公布的24家企业中，紫江企业是上海市唯一上榜企业，且被认定为创新引领类国家印刷示范企业。这标志着在新一轮国家印刷示范企业管理要求中，紫江企业将继续发挥积极作用及影响力。

In 2023, the National Press and Publication Administration released the final review results of the 2023 National Printing Demonstration Enterprises. Among the 24 enterprises on the list, Zijiang Enterprise is the only one based in Shanghai to win the title, which endows it with a valuable opportunity to set a shining example for its industrial peers in fulfilling social responsibilities.

产品创新

Product innovation

在产品的研发设计过程中，我们坚持以低碳、可回收为宗旨，以降塑、纸代塑为着眼点，在新品研发的同时，助力客户产品的研发迭代，共同提升市场竞争力，兼顾绿色发展与经济效益，从而实现各利益相关方的共赢。

Upholding the principle of low-carbon and recyclability, we minimize plastic usage and prioritize paper substitutes during product research and design phases. Additionally, we collaborate with customers on product research and iteration to enhance market competitiveness, while simultaneously balancing green development with economic benefits. This approach fosters a win-win development for all stakeholders.

案例 Case 再探运动盖饮料瓶的双面哑光绕贴标签低碳可能性

Further exploring the low carbon potential of the double-sided matte wrapping label on bottled water with a leak-free cap

瓶盖标签事业部通过使用单层双面哑光高密度珠光BOPP表印、增加标签材料哑光磨砂效果等方式，解决了生产工序资源浪费、产品易折皱的问题，在简化生产流程的同时，有助于提高生产效率、减少碳排放。2023年，该产品实现量产9,000万张。

The Crown Cap & Label Business Unit has successfully addressed resource waste and product wrinkling challenges during production through the utilization of single-layered double-sided high-density matte pearlized BOPP films. By emphasizing the frosted matte effect of these upgraded films, we have streamlined the production process, maintained high production efficiency, and minimized carbon emissions. In 2023, our film production reached a total of 90 million sheets.



运动盖饮料瓶的双面哑光绕贴标签
Double-sided matte wrapping label on bottled water with a leak-free cap

案例 Case 攻坚洗衣凝珠用水溶膜产品，贡献行业减碳，成就绿色新生活

Developing laundry beads and PVA products to reduce carbon and live green

水溶膜（PVA）作为新兴的绿色材料，具有良好的生物降解性和环保性能，正逐渐成为绿色包装领域重要包装产品。2023年，紫江企业投资控股的山东新优化攻坚洗衣凝珠用水溶膜产品，成功实现量产，实现进口替代。国产化水溶膜材料，不仅能够更好地促进日化产品的迭代与行业的低碳环保发展，还可广泛应用于农药、化工等行业，降低包装与物流费用，为推动绿色生产方式和生活方式贡献更为积极的力量。

Water-soluble film (PVA), recognized for its eco-friendly attributes and strong biodegradability, is increasingly gaining prominence as an essential material for green packaging. In 2023, Shandong Innovative Material Technology, a subsidiary of Zijiang Enterprise, successfully developed and scaled up the production of laundry beads utilizing water-soluble films. This achievement surpassed imported products and significantly impacted the household chemicals sector by promoting industry innovation and enhancing low-carbon and environmental standards. Moreover, these domestically manufactured films find wide-ranging applications in pesticides and chemicals, effectively reducing packaging and logistics costs while promoting green production practices and lifestyles.

易制浆防爆裂高阻隔性纸盒的包装材料功能性涂层具有节能易回收等特点，对于推进“以纸代塑”具有重要成效。

The functional coating applied to our packaging materials, enabling easy pulping, explosion resistance, and high barrier properties for paper boxes, is not only energy-efficient but also simplifies the recycling process. This initiative significantly advances the "paper for plastic" campaign.



紫丹印务的“无塑环保精品瓦楞包装”和紫江喷铝的“阻湿阻氧无塑纯纸基食品包装纸产品项目”荣获“环保纸产业创新奖”铜奖。

Shanghai Zijiang Color Printing's "Plastic-free Environmentally-friendly Corrugated Packaging" and Shanghai ZJMP's "Moisture and Oxygen Resistant and Plastic-free Pure Paper-based Food Packaging Project" won the Bronze Award for Innovation in the Environmentally Friendly Paper Industry.



瓶盖标签事业部与知名奶制品客户共同研发推出“随心撕拉”新模切工艺，成为行业新品。

The Crown Cap & Label Business Unit launched a new "easy tear" die-cutting process together with a well-known dairy customer, which has become an innovative product in the industry.



上海紫江彩印新研发的感光材料包装用光屏蔽复合膜，成功克服光学成像材料包装遮光性等技术难题，打破行业垄断。

Shanghai Zijiang Color Printing has achieved a breakthrough with its new photoprotective composite film designed for packaging photosensitive materials. This innovative solution effectively addresses technical challenges such as light shielding in optical imaging material packaging, thereby disrupting industry monopolies.



上海紫江彩印邀请专业第三方国际权威机构指导完成皇家2KG室内成猫哑光光油插边拉链袋（S08975K）袋身产品碳足迹评估报告。

Under the guidance of a professional international third-party authority, Shanghai Zijiang Color Printing has completed the carbon footprint assessment report of Royal Canin's 2KG indoor adult cat matte oil insert zipper bag (S08975K).



“纸质防盗卡扣包装结构”“高阻隔纸包装袋”等产品荣获美狮包装平台包装创新及可持续发展大奖。

The "paper closure buckle packaging structure" and "high barrier paper packaging bags" have won the Packaging Innovation & Sustainable Development Award of the MUSE Design Awards.



协同创新

Collaborative innovation

在提升新质生产力的趋势下，在供应链环环相扣的紧密联系中，包装印刷企业与责任客户的双向奔赴与紧密合作是实现绿色共赢的捷径。作为国内最早与“两乐”开展连线合作的企业之一，紫江企业不断锻造专业管理能力，持续与客户开展多种运营模式的创新合作。

While harnessing new, high-quality productive capabilities, packaging and printing enterprises, along with customers possessing CSR requirements within the supply chain, should mutually engage and collaborate closely to realize green, mutually beneficial development. As one of the pioneering Chinese enterprises to forge partnerships with industry giants like Pepsi and Coca-Cola, Zijiang Enterprise remains dedicated to nurturing professional management capabilities and fostering innovative collaborations with customers across various operational models.

案例 Case 紫江企业携手中粮可口可乐共促“共赢生态圈”建设

Zijiang Enterprise joins hands with COFCO Coca-Cola in building a "win-win business ecosystem"

2023年，中粮可口可乐与紫江饮料包装集群的三家事业部及紫日包装共同召开了“共建共赢生态圈”战略研讨会，双方从合作创新、降低成本、提升质量、互利互惠等多个维度提出了课题和合作发展思路。

In 2023, COFCO Coca-Cola, three business units of Zijiang Beverage Packaging Cluster, and ZIRI Packaging convened for a strategic seminar focused on "Building a Win-win Business Ecosystem". During the event, participants engaged in extensive discussions on fostering partnerships across various dimensions, including collaborative innovation, cost reduction, quality enhancement, and mutual benefits.



中粮可口可乐-紫江企业“共赢生态圈”主题研讨会颁奖仪式

The award ceremony of COFCO Coca-Cola and Zijiang Enterprise's seminar on building a "win-win business ecosystem"

案例 Case 紫江企业与国内知名调味品企业牵手合作研发PET瓶，助力循环经济

Zijiang Enterprise works with renowned domestic seasoning enterprises to develop PET bottles, spurring the circular economy

与玻璃瓶相比，PET瓶包装具有轻量化、低碳、循环利用价值高等特点，越来越多地被调味品制造企业所采用，为调味品行业包装迭代、实现绿色低碳发展奠定了基础。紫江企业将自身在饮料PET包装方面积累的经验不断推广至油瓶、调味品行业。在2012年与国内知名调味品企业携手成功攻克酱油瓶高速吹瓶及联线灌装涉及的工艺与产品质量保障等系列难题之后，紫江企业始终坚持在酱油瓶包装上深耕更轻量化与手把便利化等课题。截至2023年底，紫江企业与3家知名品牌客户形成了8条酱油瓶连线，并仍在不断扩大PET瓶在调味品行业中的份额，推动调味品行业包装绿色转型升级，助力循环经济。

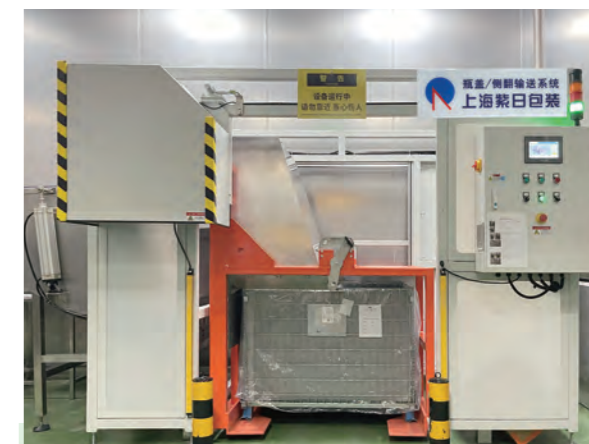
Compared with glass bottles, PET bottle packaging is characterized by light weight, low carbon footprint, and high recyclability. It is increasingly being adopted by seasoning manufacturers, laying the foundation for the packaging iteration and the realization of green and low-carbon development in the seasoning industry. Leveraging its extensive expertise in beverage PET packaging, Zijiang Enterprise has extended its capabilities to encompass the oil and seasoning sectors. Since overcoming numerous technical challenges and product quality issues in high-speed soy sauce bottle blowing and filling alongside a prominent domestic seasoning enterprise in 2012, Zijiang Enterprise has been committed to developing lighter packaging and more user-friendly handles for soy sauce bottles. By the end of 2023, Zijiang Enterprise had established 8 soy sauce bottle production lines serving 3 renowned customers, thereby expanding the adoption of PET bottles in the seasoning industry. This initiative aims to drive industry-wide transformation towards sustainability and foster the circular economy.

案例 Case 紫江企业与国内知名功能饮料品牌合作投产连线项目

Zijiang Enterprise and a well-known domestic functional beverage brand launched the point-to-point cooperation project

紫江企业与国内知名功能饮料品牌合作建设瓶胚+盖帽自动输送系统，在较短的时间内，以高水平的技术能级、运营能力和质量管控体系高效推进项目，通过直接连线方式实时输送至客户灌装线，克服多台台合并无压力输送等挑战，为品牌客户在新兴市场的迅速拓展贡献紫江智慧。

Working with a well-known domestic functional beverage brand, Zijiang Enterprise spearheaded the construction of the preform and crown cap automatic conveying system. Despite tight timelines, the project progressed seamlessly, propelled by our advanced technical expertise, operational capabilities, and robust quality control systems. The products are seamlessly delivered directly to customers' filling lines in real time, showcasing our commitment to efficiency and reliability. By overcoming challenges such as multi-machine fusion and zero-pressure accumulation conveying, we have empowered our customers to establish a strong presence in the emerging market.



紫日包装为客户设计的大包装侧翻投盖系统，发挥生产空间最大化使用，实现投资成本最优。

ZIRI Packaging designs a large packaging side flip cover system for the customer, maximizing production space utilization and investment costs.

轻量设计

Lightweight design

我们在不降低质量与功能性的情况下，持续提升材料、产品的轻量化设计，凝聚伙伴合力，以“极致轻量化”的突破性设计，推动轻量化、高强度产品研发，为消费的绿色转型提供技术支撑。

We continuously improve the lightweight design of materials, processes, and structures while prioritizing quality and functionality. Collaborating closely with partners, we promote the R&D of lightweight and high-strength products through pioneering "ultimate lightweight" designs, thereby driving forward the green transformation of consumption.



容器包装事业部以“极致轻量化”的突破性设计，实现瓶坯减重17%。2023年新型瓶型节省PET近280吨。

The Container Packaging Business Unit has achieved a 17% reduction in the weight of bottle preforms through its innovative "ultimate lightweight" design. In 2023, this groundbreaking technique resulted in the saving of nearly 280 tons of PET material.

上海紫日包装采用新的冷却结构技术将无菌盖的重量从原有的2.19克左右降至2.0克。

Shanghai ZIRI Packaging has adopted a new cooling structure technology that reduces the weight of sterile crown caps from around 2.19 grams to 2.0 grams.



紫华科技以薄膜减重技术帮助客户将底膜材料从原有的30克降至22克，降幅达26.7%。

Zihua Technology has cut film weight, and helped customers reduce the weight of base film materials from 30g to 22g, achieving a decrease of 26.7%.

精益增效

Efficiency enhancement by lean management

我们以提升人机效率为战略重点，建立健全四级改善体系，成立QCC和六西格玛项目重点攻关小组，并通过重新规划工艺路线，全面推行全时间序列的OEE（设备综合效率）管理，统一下属企业全时间OEE构架，跑出生产组织方式创新和人力资源效率提升“加速度”。

Devoted to enhancing the efficiency of both human resources and machinery, we have implemented a robust four-level enhancement system and initiated QCC and Six Sigma projects aimed at addressing key challenges. Our focus lies in refining process routes and implementing around-the-clock OEE (Overall Equipment Effectiveness) management across all operations. Through the consolidation of the full-time OEE structure within our subsidiaries, we have revolutionized production organization and significantly improved human resource efficiency.

关键绩效 Key Performance

提报精益项目数量
716 个
716 lean management projects

提报金点子
2,319 个
2,319 golden ideas proposed

获准立项的精益项目数量
498 个
The number of approved lean management projects was 498

精益项目价值兑现
7,416 万元
Value fulfillment of lean management projects: RMB 74.16 million

精益项目经济效益超1,000万元以上的下属企业数量

4 家
4 subsidiaries with economic benefits exceeding RMB 10 million in lean management projects

六西格玛项目实现财务收益
327 万元
Six Sigma project achieved financial revenue of RMB 3.27 million.

人机效率提升举措
Human-Machine Efficiency Improvement Initiative

提高“人”的效率
Enhancing the efficiency of human resources

- 紫江企业持续推动六西格玛项目进展；
- 纸包装事业部开展《精益基础知识》课程；
- 沈阳紫日包装开展精益生产培训；
- 上海紫丹食品尝试快餐盒生产制作工序合并，人均效率产出提升50%。
- Zijiang Enterprise continuously drives the Six Sigma project forward;
- The Paper Packaging Business Unit delivers a course on "Fundamentals on Lean Management";
- Shenyang ZIRI Packaging launches lean production training;
- Shanghai Zidan Food attempts to merge the production and assembly processes of fast food boxes, resulting in a 50% increase in per capita efficiency output.



提高“机”的效率
Enhancing the efficiency of machines

- 容器包装事业部搭建设备智能化管理平台；
- 紫江新材料优化“采购-计划-生产”流程；
- 上海紫江彩印成立QCC项目重点攻关。
- The Container Packaging Business Unit builds an intelligent equipment management platform;
- Zijiang New Material optimizes the "procurement-planning-production" process;
- Shanghai Zijiang Color Printing has launched the QCC project with a focus on tackling key issues.

六西格玛项目实现财务收益情况表

Financial Income Statement for the Six Sigma Project

| 序号 Number | 六西格玛项目 Six Sigma project | 财务收益 (元) Financial income (RMB) |
|--------------|---|------------------------------------|
| 1 | 降低原料损耗率 Reducing the raw material loss rate | 535,550 |
| 2 | 降低成都工厂箱包机喷胶量 Reducing the glue spraying volume of traypacker machines in Chengdu factories | 101,073 |
| 3 | 降低包料质量损失率 Reducing the quality loss rate of Zidan Packaging Technology | 591,724 |
| 4 | 提升巴基斯坦防伪定位产品合格率 Improving the passing rate of Pakistani anti-counterfeiting and positioning products | 220,400 |
| 5 | 提高3025瓶盖原料投入产出率 Improving the input-output rate of raw materials for 3025 crown caps | 199,819 |
| 6 | 提升印刷类产品产成率 Improving the productivity of printing products | 737,500 |
| 7 | 提升上海工厂OPP产品合格率 Improving the passing rate of OPP products in Shanghai factories | 172,353 |
| 8 | 降低变形盖投诉次数 Reducing complaints on deformed crown caps | 103,300 |
| 9 | 提升紫丹食品打样合格率 Improving the pass yield of samples of Zidan Food | 176,800 |
| 10 | 降低化妆品系列产品不良率 Reducing the defective rate of cosmetic products | 433,269 |

案例 Case 上海紫江彩印坚持精益管理文化引领，扎实推动企业提质增效

Guided by culture of lean management, Shanghai Zijiang Color Printing boosts quality and efficiency

2023年，上海紫江彩印着力培育精益管理文化，通过改进标准化作业流程，提高员工技能水平，开展设备自主和专业维护，积极开展六西格玛项目重点攻关等措施，推动管理创新和机制创新，促进企业提质增效。截至年底，精益项目立项41个，提案改善102个，员工参与率达92.67%。全年精益项目和提案改善财务实际收益482万，其价值兑现现在总利润中占比达14.9%。

In 2023, Shanghai Zijiang Color Printing dedicated considerable efforts to fostering a culture of lean management. With this objective in mind, we enhanced standardized operating procedures and bolstered employee skills. Additionally, we prioritized independent and professional equipment maintenance and initiated the Six Sigma projects to drive innovation in management and mechanisms, ultimately enhancing enterprise quality and efficiency. By the end of 2023, we had approved 41 lean management projects and received 102 improvement proposals, with an impressive employee participation rate of 92.67%. The financial revenue generated from these initiatives amounted to RMB 4.82 million, with value fulfillment contributing 14.9% to the overall profit.

数字赋能

Digital empowerment

我们紧跟国家产业政策导向和“工业互联”技术的发展趋势，在第三轮战略地图中明确提出到2025年实现“企业运营管理数据平台”全覆盖的目标，用数据赋能管理模式创新，“数说”运营管理能力、市场服务能力提升路径。

In line with national industrial policies and the evolving trend of "industrial interconnectivity" technology, we have outlined the objective of achieving full coverage of the "enterprise operation and management data platform" by 2025 as part of the third round of our strategic roadmap. This initiative is designed to empower management models through data utilization and to elevate operational, managerial, and market service capabilities through digital technology.

案例 Case 上海紫丹食品获评“国家级智能工厂”称号

Shanghai Zidan Food awarded the title of "National Intelligent Factory"

自2020年正式启动智能制造工厂试点建设以来，上海紫丹食品在智能化道路上坚持不懈探索创新，完成了包括产品追溯、预防性维修等智能制造场景的搭建，人效提升15%，形成可复制可推广的食品包装印刷行业智能制造的新模式。2023年，上海紫丹食品获评“国家级智能工厂”称号。

Since the inception of the pilot intelligent manufacturing factory construction in 2020, Shanghai Zidan Food has been steadfastly dedicated to exploring and innovating on the path of intelligence. This dedication led to the completion of intelligent manufacturing scenarios, such as product traceability and preventive maintenance, resulting in a notable 15% improvement in human efficiency. This achievement not only contributes to a new intelligent manufacturing model but also sets a benchmark for its counterparts in the food packaging and printing industry. In 2023 Shanghai Zidan Food was honored with the prestigious title of a "National Intelligent Factory".

案例 Case 南京紫乐饮料入选江苏省智能制造示范车间

Nanjing Zile Beverage rated as a Demonstration Workshop for Intelligent Manufacturing in Jiangsu Province

南京紫乐饮料持续完善数字经济和实体经济深度融合，深入实践精益生产思想，积极进行布局优化及设备升级，将拉动式生产模式融入智能化生产线，大幅提升车间能效。2023年，南京紫乐饮料的智能化生产车间被认定为2023年江苏省智能制造示范车间。

Constantly deepening the integration of the digital economy and real economy, Nanjing Zile Beverage applies lean production principles in practice. Through active layout optimization and equipment upgrades, the company enhances its production efficiency. By incorporating pull production into intelligent production lines, it achieves notable improvements in energy efficiency within its workshops. In recognition of its efforts, the intelligent production workshop was awarded the title of the 2023 Jiangsu Province Intelligent Manufacturing Demonstration Workshop.

案例 Case 紫江企业组织召开设备数字化（能耗采集）项目技术交流会**Zijiang Enterprise organizes a technical exchange meeting for equipment digitization (energy consumption collection) project**

2023年，管理总部组织部分企业召开“设备数字化（能耗采集）项目技术交流会”，邀请下属企业专家介绍其在运营数据管理方面的技术方案，及时分享公司内部的成熟经验。各下属企业通过分享交流与开放式讨论，在学习交流的过程中互通有无、相互借鉴，结合各自企业的实际情况和需求，寻找到适合自身的设备数字化之路。

In 2023, the Management Headquarters organized the "Technical Exchange Meeting of the Equipment Digitization (Energy Consumption Collection) Project" for some subsidiaries. Experts from subsidiaries shared their technical solutions in operational data management, effectively disseminating mature experiences to other participants. Through collaborative exchanges and discussions, each subsidiary gained valuable insights, enabling them to tailor suitable paths toward equipment digitization based on their specific circumstances and requirements.

案例 Case 上海紫日包装成立智能制造部，加快信息化、数据化、物联化、可视化发展**Shanghai ZIRI Packaging establishes the Intelligent Manufacturing Department to accelerate information-based, data-driven, IoT, and visualized development**

2023年，为促进智能化转型，进一步提升企业竞争力，上海紫日包装成立智能制造部。智能制造部借由工业物联网技术采集生产过程设备数据，通过信息化系统分析实时掌握现状。同时，整合企业现有资源，优化、升级和改造设备及产线，落地成熟技改方案，实现预防性维护，提升设备运行状态。

In 2023, Shanghai ZIRI Packaging established the Intelligent Manufacturing Department with the aim of propelling intelligent transformation and bolstering corporate competitiveness. This department utilizes industrial IoT to gather equipment data and employs real-time information systems to analyze production line statuses. By leveraging existing resources, the department is dedicated to optimizing, upgrading, and transforming equipment and production lines. Additionally, it implements mature technical renovation plans to enhance equipment operation and ensure preventive maintenance measures are in place.

案例 Case 饮料OEM事业部分阶段稳步推进数字化运营**The Beverage OEM Business Unit steadily promotes phased digital operation**

在数字化、智能化工厂的建设进程中，饮料OEM事业部将数字化运营实施分为补齐短板、夯实基础、树立标杆、全面深化四个不同阶段，设立中短期战略目标，分步推进下属工厂数字化转型落地实施。2023年，下属工厂均已完成智能仪表的更换安装，初步完善了数字基础设施。上海工厂已完成能耗数据和生产线OEE相关的数据采集与可视化系统的软件架构。

In building digitized and intelligent factories, the Beverage OEM Business Unit adopts a phased approach, dividing the implementation of digital operations into four stages: bridging gaps, consolidating foundations, setting benchmarks, and deepening results. It sets short-term strategic goals and gradually advances digital transformation across subsidiary factories. By 2023, all subsidiary factories have successfully replaced and installed intelligent instruments, marking a significant milestone in improving their digital infrastructure. Furthermore, Shanghai factories have implemented a software architecture for data collection and visualization systems, focusing on energy consumption data and production line OEE.

构筑绿色供应链**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，持续优化采购制度与标准，大力推进物流包装低碳化，与供应商合力构建以资源节约、环境友好为导向的绿色供应链体系，共同为消费者等利益相关方提供更加健康、环保的绿色产品。

We prioritize the balance of healthy, and environmental impacts as a crucial principle in our supply chain system management. We have continuously optimized the procurement system and standards, while actively promoting low-carbon logistics packaging. Through close collaboration with our suppliers, we are steadfast in constructing a green supply chain system that emphasizes resource conservation and environmental friendliness. Our unwavering commitment extends toward providing consumers and stakeholders alike with greener, healthier, and more reliable products.

绿色沟通**Green communication**

我们持续完善“紫江企业供应链协同管理平台”，帮助供应商及时了解紫江企业的可持续发展理念，并通过搭建供应商沟通会等交流渠道，及时与供应商分享当前行业挑战与机遇，共探提升产业链供应链韧性和安全水平的有效路径。

We have consistently improved the Zijiang Enterprise Group Supply Chain Collaborative Management Platform to keep our suppliers abreast of the Company's sustainability principles. Additionally, we have implemented various communication channels, including supplier communication meetings, to facilitate timely exchanges on industry challenges and opportunities. Through these collaborative efforts, we work hand in hand with our suppliers to explore effective strategies aimed at enhancing the resilience and security of both the supply chain and the industry chain.

案例 Case 紫江企业携手供应商共应外部挑战**Zijiang Enterprise and suppliers to address external challenges together**

面对新时代下的新挑战，携手供应商协同发展是紫江企业实现高质量发展的关键。

- 2023年，沈阳紫日包装通过定期召开供应商沟通会，及时了解复杂市场背后的“危”与“机”；
- 紫江新材料与供应商合作开发黑色铝塑膜用黑色尼龙，着力解决印刷型黑色铝塑膜在外层油墨剥离不稳定、耐湿热性差等行业痛点。

Faced with new challenges in the new era, partnering with suppliers for coordinated development is the key to Zijiang Enterprise's high-quality development.

- In 2023, Shenyang ZIRI Packaging convened regular supplier communication meetings to stay abreast of the risks and opportunities within the intricate market landscape;
- Zijiang New Material collaborated with suppliers to develop black nylon for black aluminum-plastic film, specifically targeting industry challenges such as unstable ink adhesion and insufficient resistance to moisture and heat in printed black aluminum-plastic film.

绿色采购**Green procurement**

我们继续深入落实绿色采购理念，在供应商准入、评价、审核等环节严格把控，通过完善绿色采购政策、建设并推广电子采购平台等措施，提升采购管理的系统性、全面性和可持续性。

We are steadfast in our commitment to fully embracing the green procurement concept, while maintaining rigorous oversight of supplier admission, evaluation, and auditing procedures. Our efforts include refining green procurement policies and promoting the establishment of electronic procurement platforms. Through these initiatives, we seek to enhance the systematic, comprehensive, and sustainable management of procurement processes.

案例 Case 广东紫日包装全面推进绿色采购

Guangdong ZIRI Packaging advances comprehensive green procurement

广东紫日包装制定了系统、全面的绿色采购政策，确保在采购过程中充分考虑环境的影响。在选择供应商时，广东紫日包装优先考虑具有绿色认证和环保标准的供应商，并通过建立供应商评价体系，定期对供应商的环保表现进行评估和监控，确保供应商符合公司绿色采购要求。

Guangdong ZIRI Packaging has formulated a comprehensive green procurement policy aimed at ensuring thorough consideration of environmental impacts at every stage of the procurement process. In supplier selection, the company gives precedence to those possessing green certifications and adhering to environmental standards. Additionally, through the implementation of a robust supplier evaluation system, the company conducts regular assessments to monitor the environmental performance of suppliers, thereby ensuring adherence to its green procurement requirements.

绿色物流

Green logistics

我们将物流作为绿色低碳转型的重要环节，持续加强绿色包装应用，优化物流模式和运输方式，加强科技手段在物流环节中的赋能，为促进绿色物流产业发展、构建低碳生态，助力全流程提质增效和低碳减排贡献紫江力量。

Recognizing logistics as a crucial component in our transition towards green and low-carbon practices, we have continually promoted the adoption of green packaging, optimized logistics patterns and transportation methods, and emphasized the integration of technology into our logistics operations. These endeavors are geared towards fostering the development of the green logistics sector, creating a low-carbon ecosystem, and driving improvements in quality, efficiency, and the reduction of carbon emissions.

案例 Case 石家庄紫江包装携手中粮可口可乐共促物流效率提升

Shijiazhuang Zijiang Packaging and COFCO Coca-Cola jointly enhance logistics efficiency

2023年，石家庄紫江包装与中粮可口可乐启动创新战略合作项目，通过建立集中倒胚倒盖中心及胚盖自动输送系统，将原各条线分散工序集中整合，整合客户生产资源，减少物流次数。

In 2023, Shijiazhuang Zijiang Packaging and COFCO Coca-Cola embarked on a strategic cooperation project centered on innovation. This collaboration led to the establishment of a centralized preform and cap turning center, alongside an automatic preform and cap conveying system. By integrating previously fragmented processes across different lines, Shijiazhuang Zijiang Packaging optimized its client's production resources, consequently reducing logistics frequency.



河北厂瓶胚盖自动化输送系统平台启动仪式
The inauguration ceremony of the automatic preform and cap conveying system at the Hebei factory

推动绿色物流举措
Initiatives to promote green logistics包装回收利用
Packaging recycling

- 紫江新材料与伙伴合作回收利用托盘9,049块，减少塑料投入约157.74吨，回收循环利用木夹板49,137块；
- 瓶盖标签事业部与薄膜供应商交流沟通，循环使用挡板护膜，合计回收并循环利用挡板10,641块；
- 上海紫江喷铝回收循环利用木拖盘约2,000块，维修利用木拖盘约1,000块，卷筒产品包装用纸制圆片循环利用近3万片。
- Zijiang New Material and its partners have recycled 9,049 pallets, reducing plastic consumption by approximately 157.74 tons, and reused 49,137 plywood pieces;
- The Crown Cap & Label Business Unit collaborates with film suppliers to enable the reuse of baffle-protective films. In total, 10,641 baffles were collected and recycled;
- Shanghai ZJMP has recycled about 2,000 wooden pallets, repaired approximately 1,000 wooden pallets, and reused nearly 30,000 paper discs for roll product packaging.

包装材料替代
Packaging material replacement

- 纸包装事业部用低克重白卡替代高克重灰板，降低纸张克重，削减运输成本；
- 上海紫江喷铝利用废纸替代牛皮纸，循环使用包装纸约10吨。
- The Paper Packaging Business Unit has switched from high-grammage gray board to low-grammage white cardboard, leading to decreased paper weight and transportation costs;
- Shanghai ZJMP opts for waste paper over kraft paper, and has recycled around 10 tons of packaging material.

运输模式优化
Transportation mode optimization

- 容器包装事业部用槽罐车直送切片替代原始的料包运输，节约供应商包装费用约39.2万元；
- 上海紫江彩印实现公路运输向铁路运输及海上运输的转变，并在指定线路、短驳路线采用包车模式，节约成本近100万元；
- 上海紫江彩印要求供应商与物流公司车辆采用网络预约模式，统筹规划实现了车辆分流，减少环境污染。
- The Container Packaging Business Unit delivers PET RESIN directly by tank car, saving approximately RMB 392,000 in supplier packaging bag costs;
- Shanghai Zijiang Color Printing has transitioned from road transport to railway and sea transport, and implemented a chartering model for designated and short-haul routes, resulting in savings of nearly RMB one million;
- Shanghai Zijiang Color Printing mandates that suppliers and logistics firms utilize online appointment systems for their vehicles. They have achieved vehicle diversion through coordinated planning, leading to a reduction in environmental pollution.

食品安全 Food safety

我们将食品安全视为不可动摇的首要任务，坚定不移地确保食品安全和质量管理贯穿于整个生产与运输流程。从油墨、纸张到胶水，从水循环管道、仪器仪表检测到金属异物、蚊虫、油污、荧光剂，我们在每一个环节都严格把守质量关卡，并通过联合客户共同举办食品安全文化节等活动，深化食品安全意识，以期为客户提供安心之选，让消费者享用放心食品。

We consistently prioritize food safety above all else and have steadfastly emphasized its importance throughout our production and transportation processes. Our dedication to product quality encompasses meticulous monitoring of materials such as inks, paper, and adhesives, as well as rigorous inspections of water circulation pipelines and testing instruments. Additionally, we meticulously address potential contaminants, including metal foreign objects, insects, oil contamination, and fluorescent agents, at every stage of our operations. Furthermore, we enhance food safety awareness through collaborative efforts, such as organizing food safety culture events with our customers. Our ultimate goal is to offer peace of mind to our customers and provide consumers with reliable food options.



紫江特种瓶业莘庄分公司获得上海市市场监管局推出食品相关产品生产许可补充检验方法改革试点后向企业颁发的首张许可证。
The Xinhuang Branch of Zijiang Plastic Bottle obtained the first license granted by the Shanghai Municipal Administration for Market Regulation to enterprises following its introduction of pilot reform of supplementary inspection methods for permits related to food product production.

紫丹印务通过英国零售商协会（BRC）食品技术标准认证，紫江彩印下属的上海与安徽两家工厂通过BRC复审。

Zidan Printing secured the Food Technical Standard certification from the British Retail Consortium (BRC), while Shanghai Zijiang Color Printing and Anhui Zijiang Color Printing obtained BRC re-certification.



成都紫泉饮料荣获成都市新都区食品行业协会“2023年食品安全优秀企业”。
Chengdu Ziquan Beverage was awarded the "2023 Outstanding Enterprise in Food Safety" by the Food Industry Association of Xindu District, Chengdu.



紫江企业荣获上海市食品接触材料协会“突出贡献奖”，上海紫丹食品荣获“标准创新奖”“卓越伙伴奖”。

Zijiang Enterprise received the "Outstanding Contribution Award" from the Shanghai Association of Food Contact Materials, while Shanghai Zidan Food was presented with both the "Standard Innovation Award" and the "Excellent Partner Award".



合规性 Compliance



- 完成QS年度换证，扩大QS生产许可的范围为后续的食品包装业务的开拓提供了合规保障。
- The company expanded the scope of QS production permits to ensure compliance for the future development of the food packaging business.

工艺优化 Process optimization



- 分析生产过程不良品的原因并优化工艺参数；
- 优化虫害控制系统，优化玻璃刀片等异物的管控，杜绝异物对产品的危害。
- The company analyzed the causes of production defects and optimized process parameters;
- The company optimized the pest control system and enhanced control measures for foreign objects such as glass blades, effectively eliminating potential harm to products from foreign objects.

原料准入 Raw material selection



- 完善“食品用包装材料准入流程”；
- 完善供应商审核机制，增加现场审核食安相关的项目并要求其签署各种保证协议。
- The company improved the "Admission Process for Food Packaging Materials";
- The company enhanced the supplier audit mechanism by incorporating clauses pertaining to on-site food safety audits, and mandated suppliers to sign guarantee agreements.

信息共享 Information sharing



- 优化与客户的沟通方式，及时准备审核资料，快速试制检测；
- 本年度，提交并通过了4类产品的GCPS审批，审批周期较往年下降40%。
- The company optimized communication with customers, prepared review materials in time, and conducted rapid trial production testing;
- The company submitted and obtained GCPS approval for four product categories, resulting in a 40% reduction in the approval cycle compared to the previous year.

上海紫江喷铝保障食品安全举措 Actions taken by Shanghai ZJMP to ensure food safety



坚持环境治理

Upholding Environmental Governance

我们秉持“绿水青山就是金山银山”的发展理念，不断优化环境管理体系，加强环境应急管理制度建设，为紫江企业走通、走稳、走好绿色发展之路提供有力支撑。

Remaining steadfast in our belief that lucid waters and lush mountains are invaluable assets, we have continuously refined our environmental management system and strengthened the development of our environmental emergency management protocols. Through these efforts, we provide strong support for the ongoing journey towards green development.

环境管理

Environmental management

我们不断完善环境管理体系和机制建设，持续完善《危险废弃物管理程序》《废气污染控制程序》等制度，保障三废的合规排放处置，着力打造绿色工厂，支撑起绿色制造的“基本盘”。2023年，沈阳紫泉饮料、安徽紫江喷铝入选省级绿色工厂名单，绿色制造体系建设不断取得新进展。

We have consistently improved our environmental management system and mechanisms, updating protocols such as the *Hazardous Waste Management Procedure* and the *Air Pollution Control Procedure* to ensure the proper discharge and disposal of wastes. Concurrently, we have focused our efforts on establishing green factories, which form the cornerstone of our green manufacturing initiative. In 2023, Shenyang Ziquan Beverage and Anhui ZJMP were both recognized on the provincial list of green factories, highlighting the ongoing progress of our green manufacturing system.

下属企业绿色工厂建设成果

Green Factory Construction Achievements of Subordinate Enterprises

| 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 Ministry of Industry and Information Technology |
| 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. | |
| | 沈阳紫泉饮料工业有限公司 Shenyang Ziquan Beverage Industry 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 |
| 安徽紫江喷铝环保材料有限公司 Anhui Zijiang Metallization Environmental Protection Material Co., Ltd. | 安徽省经济和信息化厅 Industry and Information Technology Department of Anhui Province | |



奖项荣誉
Honors and Awards

环保应急

Environmental emergency management

A

A级评价
A-level rating

紫华科技在2024年1月公布的上海市生态环境局《关于上海市2022年度企事业单位生态环境信用评价结果的公告》中，荣获A级评价（在参评的45,889家企业中，仅有77家企业获得A级评价）。

In the *Announcement on the 2022 Ecological and Environmental Credit Evaluation Results for Enterprises and Public Institutions* released by the Shanghai Municipal Bureau of Ecology and Environment in January 2024, Zihua Technology was granted an A-level rating. (Out of the 45,889 enterprises assessed, only 77 achieved an A-level rating).

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，我们持续开展环境事件风险评估工作，制定更加系统的环保事故应急预案，并积极开展突发环境事件应急演练，提升员工意识与技能。

To significantly improve our ability to manage and prevent environmental risks, safeguard employee health and safety, and increase awareness and skills, we have persisted in conducting environmental risk assessments. Additionally, we have developed more robust environmental emergency response plans and actively conducted drills for unforeseen environmental incidents to minimize environmental damage.

案例 Case 紫东尼龙开展2023年突发环境事件应急演练

Zidong Nylon conducts emergency drills for environmental emergencies in 2023

紫东尼龙特开展厂区内突发环境事件进行应急演练，通过虚拟废油泄漏场景，演练并完善环境事故应急预案，提升员工应对突发环境事件的实操能力，筑牢环境安全防线。

Zidong Nylon conducted environmental emergency drills within the factory premises. Through simulated scenarios such as oil spillage, the company organized exercises to refine emergency response plans. These drills not only enhanced employees' practical skills in addressing environmental emergencies but also strengthened environmental safety measures.



突发环境事件应急演练
Emergency response drill for environmental emergencies

应对气候变化

Addressing Climate Change

针对“双碳”目标，我们持续完善低碳管理体系，稳步推动清洁能源体系建设，切实推进绿色低碳循环发展，为实现绿色转型贡献紫江方案。

In alignment with China's 30·60 Decarbonization Goal, we have continuously strengthened our low-carbon management system, steadily progressed in developing our clean energy system, and effectively promoted green and low-carbon circular development. Through these efforts, we contribute Zijiang Enterprise's solutions to the pursuit of green transformation.

低碳管理

Low-carbon management

我们积极推动下属企业开展碳盘查、碳核算工作，定期披露碳排放数据，建立健全温室气体排放数据统计和管理体系，并紧跟国际趋势，制定符合SBTi（科学碳目标倡议）的减碳目标规划，组织成立碳减排小组，实现全生命周期减碳管理。

We have actively encouraged our subsidiaries to conduct carbon audits and accounting, while regularly disclosing carbon emission data. Continuous improvements have been made to our greenhouse gas emission data collection and management system. Furthermore, we have aligned with international trends by developing decarbonization target plans in accordance with the Science Based Targets initiative (SBTi). Additionally, a dedicated carbon reduction task force has been established to ensure comprehensive implementation of lifecycle carbon management.

案例 Case 以碳核算认证科学指导减碳目标设定及路径规划

Setting decarbonization targets and planning relevant paths under the guidance of carbon accounting certification

在“双碳”目标引领下，南京紫乐饮料、上海紫丹食品、紫丹包科等下属企业委托专业第三方对产品碳足迹进行核算和核查，并根据产品各部分碳足迹科学规划、制定并实施减排措施和碳抵消。2023年，继南京紫乐饮料在2022年率先实现碳中和之后，上海紫丹食品、紫丹包科、西安紫江企业、唐山紫江包装、邳崧紫江包装相继取得PAS 2060碳中和认证证书，再次展示了紫江企业在环保领域的积极努力，以及对于环境治理的责任与担当。

Guided by China's 30·60 Decarbonization Goal, our subsidiaries such as Nanjing Zile Beverage, Shanghai Zidan Food, and Zidan Packaging Technology have enlisted professional third parties to calculate and verify the detailed carbon footprints of their products. Leveraging the gathered data, they have devised scientifically grounded plans and implemented measures to reduce emissions, along with strategies for carbon offsetting. In 2023, following Nanjing Zile Beverage's successful achievement of carbon neutrality in 2022, Shanghai Zidan Food, Zidan Packaging Technology, Xi'an Zijiang Enterprise, Tangshan Zijiang Packaging, and Qionglai Zijiang Packaging obtained PAS 2060 carbon neutrality certification. This underscores Zijiang Enterprise's proactive approach to environmental protection and its unwavering dedication to environmental governance.



PAS 2060碳中和认证证书
PAS 2060 carbon neutrality certification

案例 Case 上海紫江彩印加入SBTi并作出减碳承诺

Shanghai Zijiang Color Printing joins the SBTi and commits to carbon reduction

2023年，上海紫江彩印通过专业第三方国际权威机构的指导设定了基于科学的减排目标，成功加入SBTi并作出减碳承诺。公司内部成立了由领导层组成的多个碳减排小组，包括无溶剂小组、可持续包装小组等，由各公司及QCC小组积极落实内部减碳规划。

In 2023, Shanghai Zijiang Color Printing, guided by international third-party authoritative institutions, established science-based emission reduction targets and successfully joined the SBTi, pledging to reduce carbon emissions. Within Shanghai Zijiang Color Printing, several carbon reduction teams led by the management have been established, including the solvent-free team and sustainable packaging team. Internal carbon reduction plans have been implemented by various subsidiaries and QCC teams.

案例 Case 紫丹包科多措并举，全面推进运营减碳

Zidan Packaging Technology implements comprehensive carbon reduction measures in operations

紫丹包科积极响应国家“碳达峰、碳中和”的目标，加快推进分布式光伏建设等减碳行动，全力以赴应对气候变化。2023年，紫丹包科CDP（全球环境信息研究中心）评分逐年提升，最高已达“B”评级。同时单位产值碳强度达到0.0805吨/万元产值，同比下降48.79%。

Zidan Packaging Technology has taken proactive steps in response to China's 30·60 Decarbonization Goal. The company has accelerated the implementation of carbon reduction initiatives, such as the development of distributed photovoltaic projects, to effectively address challenges posed by climate change. In 2023, the company's rating by the CDP Global Environmental Information Research Center increased to the highest level of "B". Concurrently, its carbon intensity per unit of output value decreased by 48.79% compared to the previous year, reaching 0.0805 tons per RMB 10,000 of output value.

| 紫丹包科减碳行动 Zidan Packaging Technology's carbon reduction actions | 减碳量 (吨) Amount of carbon reduction (ton) |
|--|---|
| 分布式光伏 Distributed photovoltaic projects | 630 |
| 纸箱护角回收利用 Recycling of paper box corner protectors | 21 |
| 空调循环水泵低能耗替代 Use of low-energy consumption air conditioning circulation pumps | 9 |
| 蒸汽回流改造 Steam condensate recovery retrofit | 19 |
| 污泥干化 Sludge drying | 137 |
| 油墨干燥方式替代 Adoption of more eco-friendly ink-drying methods | 94 |
| 太阳能路灯 Solar street lights | 6 |
| 废气处理装置风机变频改造 Use of variable frequency fans for exhaust gas treatment devices | 24 |
| LED照明灯 Led lighting | 125 |

清洁能源

Clean energy

我们通过在厂房屋顶铺设光伏发电设施、参与绿电交易等方式优化能源结构，提升清洁能源占比，大幅降低生产运营所带来的碳排放，助力实现“双碳”目标。

We have optimized our energy structure by increasing the proportion of clean energy through the installation of photovoltaic power generation facilities on factory roofs and participating in green electricity trading. Through these efforts, we have substantially decreased carbon emissions from production operations, contributing to the attainment of China's 30·60 Decarbonization Goal.

关键绩效 Key performance

非化石能源占比

23.35%

The share of non-fossil energy consumption reached 23.35%

较去年上升

18.98个百分点

Up 18.98 percentage points from last year

光伏发电

1,985.6万度

Cumulative power generated through photovoltaic installations: 19.856 GWh

容器包装事业部

Container Packaging Business Unit

完成上海瓶坯中心二期光伏项目、武汉紫江企业光伏项目、沈阳紫江光伏项目、广州草地光伏项目，年发电量约850万度。

The unit completed various photovoltaic projects, including the second phase of the Shanghai Preform Center photovoltaic project, the Wuhan Zijiang Enterprise photovoltaic project, the Shenyang Zijiang photovoltaic project, and the grassland photovoltaic project in Guangzhou. Collectively, these projects generate approximately 8.5 GWh of electricity annually.

上海紫丹食品、紫丹包科

Shanghai Zidan Food and Zidan Packaging Technology

通过内部运营改善、自主开发智慧能源管理系统、应用清洁能源等措施，实现绿色能源使用率100%。

Through internal operational enhancements, autonomous development of smart energy management systems, and the adoption of clean energy, the two companies achieved a remarkable 100% utilization rate of green energy.

沈阳紫日包装

Shenyang ZIRI Packaging

铺设光伏约7,000平米。

The company installed approximately 7,000 square meters of photovoltaic facilities.

安徽紫江喷铝

Anhui ZJMP

完成1.9兆瓦特光伏项目并网发电，预计年发电量204万度，二氧化碳排放减少2,100吨。

The company connected its 1.9 MW photovoltaic project to the grid for power generation, with an anticipated annual electricity generation of 2.04 GWh. This achievement is expected to result in a reduction of 2,100 tons of carbon emissions.

紫东尼龙

Zidong Nylon

安装太阳能光伏发电设备，年发电量约34万度，节约标准煤41.82吨。

The company installed photovoltaic power generation equipment, generating approximately 340 MWh annually and saving 41.82 tons of standard coal.

紫江新材料

Zijiang New Material

投资近400万，充分利用厂房屋面建设1.038兆瓦光伏项目，年发电量近100万度。

The company invested nearly RMB 4 million to fully utilize the factory roof for constructing a 1.038MW photovoltaic project, which generates nearly 1 GWh of electricity per year.



推进清洁能源利用举措

Initiatives to enhance the utilization of clean energy



案例 Case 紫江企业针对现有光伏项目实施高效改造

Zijiang Enterprise conducts efficient upgrades for existing photovoltaic projects

2023年，紫江企业按照EPC模式推动全国各区域公司开展光伏项目铺设工作，并选用发电转化率约22%单晶硅光伏组件替换原先采用的发电转化率约17%多晶硅光伏组件。在一期工作中，总计铺设光伏面积20.5万平方米，装机容量29.61兆瓦，预计年发电量3,000万度，二氧化碳排放减少约2,910吨。

In 2023, Zijiang Enterprise spearheaded the implementation of photovoltaic projects across its subsidiaries nationwide using the Engineering, Procurement, and Construction (EPC) model. Monocrystalline silicon photovoltaic modules, boasting an energy conversion rate of approximately 22%, were deployed to replace the original polycrystalline silicon photovoltaic modules, which had an energy conversion rate of about 17%. During the first phase of the initiative, a total of 205,000 square meters of photovoltaic facilities were installed, with a combined installed capacity of 29.61 MW. These facilities are expected to generate 30 GWh of electricity annually, resulting in an estimated reduction of approximately 2,910 tons of carbon emissions.

案例 Case 紫丹印务首个自投光伏项目成功并网发电

The first self-financed photovoltaic project by Zidan Printing successfully connects to the grid for power generation

2023年，紫丹印务首个自投光伏项目成功并网发电，成为紫江企业下属第二家完成自建光伏的企业。该项目采用BIPV铺设模式，铺设面积为6,000平方米。截至2023年年底，累计发电9.22万度，2024年预计提供85万度绿色电力，相当于减碳357吨。



紫丹印务886KW-EPC光伏项目
Zidan Printing's 886KW-EPC Photovoltaic Project

In 2023, Zidan Printing's inaugural self-financed photovoltaic project successfully connected to the grid for power generation, marking it as the second subsidiary within Zijiang Enterprise to independently invest in and construct a photovoltaic project. The project adopts a Building-integrated photovoltaics (BIPV) installation approach, covering a total area of 6,000 square meters. By the end of 2023, it had generated a total of 92.2 MWh of electricity. It is anticipated to provide 850 MWh of green electricity in 2024, resulting in a reduction of 357 tons of carbon emissions.

关键目标 Key targets

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 | 2025年目标值 Target by 2025 |
|---|---------------|---------------|---------------|----------------------------|
| 安装太阳能面积 (平方米) Area with photovoltaic systems (m ²) | 117,300 | 210,519 | 291,567 | 396,862 |
| 分布式光伏覆盖率 Coverage of distributed photovoltaic projects | 18.36% | 31.72% | 40.51% | >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.

循环经济

Circular economy

我们遵循循环经济再利用和资源化的基本原则，面向产品设计、生产制造等环节，通过改进工艺、升级设备等方式，提高资源利用效率和再生资源利用水平，推动公司高质量发展，实现社会效益和经济效益的协调统一。

Embracing the principles of reuse and recycling inherent in the circular economy, we prioritize product design and manufacturing processes. Through enhancements in resource efficiency and the promotion of recycled materials via process improvements and equipment upgrades, we drive the Company's high-quality development. This approach fosters the harmonious integration of social and economic benefits.

促进循环经济发展举措
Initiatives to promote the development of the circular economy

瓶盖标签事业部
Crown Cap & Label Business Unit

- 采用 P7-1 薄膜配方 (30% 采用 PE 回收塑料) 的 PE 卫包产品通过 GRS 认证(全球回收标准)。
- The unit's PE sanitary packaging products, manufactured using the P7-1 film formula (with 30% recycled PE plastic), obtained the Global Recycled Standard (GRS) certification.

上海紫江彩印
Shanghai Zijiang Color Printing

- 开发全聚乙烯宠物包装袋新型包装，采用均质复合材料，提升包装材料废弃物的二次利用率和回收价值；
- 使用高阻隔BOPP提升可回收膜的阻隔性，延长货架期。
- The company developed a new type of polyethylene pet food packaging bag. Utilizing homogeneous composite materials increased the recycling rate and recovery value of discarded packaging materials;
- The company employed high-barrier biaxially oriented polypropylene (BOPP) to enhance the barrier properties of recyclable film, thereby extending its shelf life.

容器包装事业部
Container Packaging Business Unit

- 上海特种瓶业莘庄分公司工业容器PE粉碎料再利用项目，使用粉碎料67吨，创造价值48余万元；
- 上海瓶坯中心注塑机液压油回收过滤再利用项目，处理再利用液压油80吨，创造价值40余万元。
- The industrial container PE scrap recycling project conducted by the Xinzhuang Branch of the Zijiang Plastic Bottle utilized 67 tons of scrap material, generating a value exceeding RMB 480,000;
- The injection molding hydraulic oil recycling and reuse project by the Shanghai Preform Center processed and reused 80 tons of hydraulic oil, resulting in a value exceeding RMB 400,000.

案例 Case 上海紫江彩印可回收全烯烃复合膜荣获上海市高新技术成果转化项目认定

Shanghai Zijiang Color Printing's recyclable all-olefin composite film acknowledged as part of the high-tech achievement transformation project in Shanghai

上海紫江彩印成功开发了可回收全烯烃复合膜，在废弃物回收利用时不需要将复合好的各层材料进行分离，即可作为回用材料，用于塑料托盘、周转箱、日化容器等次级应用，在降低塑料污染的同时，还减少了对初生石油制品的消耗。

Shanghai Zijiang Color Printing has successfully developed an all-olefin composite film product. This innovative product eliminates the need to separate composite layers when recycling discarded film, allowing for direct reuse. It finds applications in various items such as plastic pallets, turnover boxes, and daily chemical containers. By facilitating the reduction of plastic pollution and minimizing the consumption of virgin petroleum products, this product aligns with our commitment to environmental sustainability.



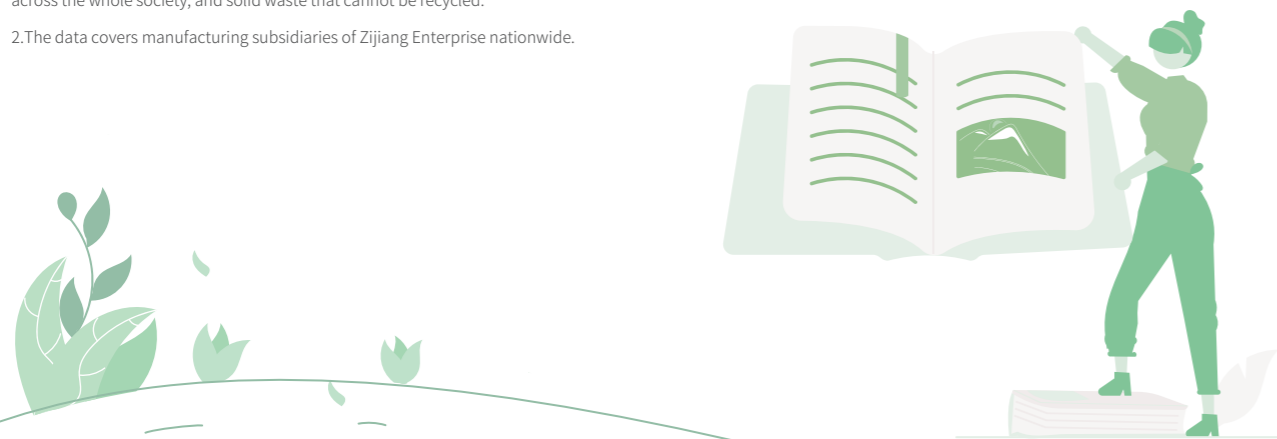
上海紫江彩印的可回收全烯烃复合膜
The all-olefin composite film produced by Shanghai Zijiang Color Printing

关键目标 Key targets

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 | 2025年目标值 Target by 2025 |
|--|---------------|---------------|---------------|----------------------------|
| 无害废弃物社会循环利用率 Recycling rate of Non-hazardous waste across the whole society | 95.94% | 95.48% | 96.44% | ≥98% |

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.



聚焦节能减排

Focusing on Energy Conservation and Emission Reduction

我们疏堵结合、多管齐下，从能耗管理、废气管理、固废管理、水资源管理等方面着手，在改进工艺和升级设备上下功夫，全面推动节能降碳减污协同增效，助力生态环境质量持续改善。

We adopt a combination of measures to enhance energy consumption management, exhaust fumes management, solid waste management, and water resource management. Through technological advancements and equipment upgrades, we comprehensively strengthen energy efficiency, carbon reduction, and pollution reduction efforts. Ultimately, our aim is to continuously enhance the quality of the ecological environment.

能耗管理

Energy consumption management

我们秉持着能效优先和保障合理用能相结合的原则，不断通过生产工艺的升级、积极探索，以及用能设备的更新改造、高效节能技术的引进应用，确保能耗强度和总量双控。2023年，作为紫江企业第三轮战略地图重要指标的全时间序列OEE指标实现了大幅度提升，同时带动了能耗指标的下降。

In accordance with the principle of prioritizing energy efficiency and ensuring reasonable energy usage, we consistently maintain dual control of energy intensity and total energy consumption through upgrades, active exploration, and the renewal and transformation of energy-using equipment. We also focus on introducing and applying energy-efficient technologies. In 2023, the full-time-series OEE, a crucial indicator of Zijiang Enterprise's third-round strategic roadmap, experienced a significant increase compared to the previous year, leading to a reduction in energy consumption.

关键绩效 Key performance

开展节能改造项目 **8** 项
8 energy-saving transformation projects

节能改造投入 **1,975.53** 万元
RMB 19.7553 million invested in energy-saving transformation



紫江新材料 Zijiang New Material

- 干复车间新增空调系统采用机组能效比达5.31的室外安装蒸发式螺杆机组，较普通螺杆机组或普通模块机组节约35%；
- 通过设备改善实现工艺设备提速，万元产值能耗达到0.06吨标煤，同比下降10.4%。
- The new air-conditioning system in the dry lamination workshop used outdoor mounted evaporative screw units with an energy-efficiency ratio of 5.31, which saved about 35% of electricity compared with ordinary screw units or ordinary modular units ;
- Through equipment improvements, the process equipment has been accelerated, leading to a decrease in energy consumption. Specifically, the energy consumption per RMB 10,000 of output value has decreased to 0.06 tons of standard coal, representing a year-on-year decrease of 10.4%.

上海紫泉标签 Shanghai Ziquan Label

- 利用RTO（蓄热式热氧化器）产生的高温烟气进行余热利用，改造后印刷机及RTO合计单耗由近215度/万米降低到150度/万米；
- 通过ISO 5001能源管理体系认证。
- Through the utilization of high-temperature flue gas generated by the RTO (Regenerative Thermal Oxidizer) for residual heat utilization. The combined unit consumption of the printing machine and RTO was reduced from nearly 215 kWh/10,000 m to 150 kWh/10,000 m after the renovation ;
- The company passed ISO 5001 Energy Management System certification.

紫华科技 Zihua Technology

- 改造流延机水系统，节约电能9.5万度/年。
- The company modified the water system of the casting machine, saving 95 MWh/year.

上海紫江彩印 Shanghai Zijiang Color Printing

- 通过升级RTO蓄热燃烧环保治理装置、变频改造中央空调风机等节能措施，万元产值电耗达到414度，同比下降16.4%。
- Through the upgrading of the RTO heat storage combustion environmental protection treatment device, adoption of frequency conversion of the central air-conditioning fan, and implementation of other energy-saving measures. The electricity consumption per RMB 10,000 of output value decreased to 414 kWh, marking a year-on-year decrease of 16.4%.

上海紫江喷铝 Shanghai ZJMP

- 利用RTO废气燃烧余热，预计全年节约用电100万度。
- The company utilized the residual heat of RTO exhaust gas combustion, which is expected to save 1 GWh/year.

紫东尼龙 Zidong Nylon

- 整体更换高低压设备，将SCB8变压器全部换成能效等级二级以上的SCB14，推广应用高效节能变压器；
- 在冷水机组和空调机组的选择上，选择一级能效产品。
- The company changed the whole high and low voltage equipment and also replaced all SCB8 transformers with SCB14 of energy efficiency class II or above, and promoted the application of energy-efficient transformers ;
- In the selection of chiller units and air-conditioning units, Class I energy-efficiency products were preferred.

南京紫乐饮料 Nanjing Zile Beverage

- 综合能耗达到先进值水平，荣获中国饮料工业协会“‘绿水青山杯’2023中国饮料行业节能优秀企业”。
- The overall energy consumption reached the level of advanced value, and was awarded the "Green Water and Green Mountain Cup-2023 China Beverage Industry Energy Saving Excellent Enterprise" by the China Beverage Industry Associations.

案例 Case 上海紫江喷铝开展设备节能技术改造，优化能耗管理

Shanghai ZJMP promotes technological transformation to reduce energy consumption.

2023年，上海紫江喷铝以设备技改寻求节能空间，对空压机、中央空调、蒸汽锅炉等设备开展能耗优化，预计全年节约189吨标煤。

In 2023, Shanghai ZJMP elevated its energy-saving efforts through equipment technological transformation, optimizing the energy consumption of air compressors, central air conditioners, steam boilers, and other equipment. These initiatives are projected to save 189 tons of standard coal over the course of the year.



| 项目名称 Project | 节能效益 Energy Saving Indicators |
|--|--|
| 复合机烘箱加热控制改造 Modification of heating control of composite machine oven | 单耗同比下降10.4%，全年可节约用电10万度。 Energy consumption decreased by 10.4% year on year, saving 100 MWh/year. |
| 二期水泵房控制优化 Optimization of the second-phase water pump room | 全年可节约用电8万度。 The annual electricity consumption can be saved by 80 MWh. |
| 空压机置换 Replacement of air compressor | 同比用电下降19%，全年可节约用电7万度。 Year-on-year electricity consumption decreased by 19%, saving 70 MWh for the whole year. |
| 中央空调大改小冰水机组 Change from central air-conditioning to small ice and water units | 当月同比节约用电2.9万度，全年可节约用电8万度（3个月供冷）。 Year-on-year savings reached 29 MWh for the month and 80 MWh for the year (3 months of cooling) |
| 镭射模温机电磁加热改造 Modification of electromagnetic heating for laser molding machine | 用电单耗同比下降8%。 Electricity consumption decreased by 8% year on year. |
| 蒸汽发生器替代锅炉 Replacement of boiler with steam generator | 燃气单耗同比下降17%，全年可节约燃气7万立方米。 Gas-only consumption decreased by 17% year on year, saving 70,000 cubic meters of gas for the whole year. |

关键目标 Key targets

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 | 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) | 619.91 | 570.31 | 596.57 | 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 | 89.22% | 90.5% | 97.71% | ≥ 94% |
| 节能公用设施功率占公用设施总功率 Ratio of the power of energy-saving utilities to total power of electric facilities | 34.41% | 43.40% | 49.16% | ≥ 67% |

注:

- 1.每万元产值电耗=紫江企业下属制造企业年耗用电量/年完工总产值
- 2.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
- 3.节能公用设备设施功率占公用设备设施总功率比=节能公用设备设施功率/公用设备设施总功率
- 4.数据覆盖紫江企业下属制造企业全国工厂
- 5.由于2023年粒料、薄膜价格处于低位导致其总产值增长幅度较低,且总电量同比增加,致使每万元产值电耗同比小幅上升

Note:

1. Electricity consumption per RMB 10,000 of output value = Annual power consumption of manufacturing subsidiaries of Zijiang Enterprise / total annual output value
2. Ratio of the power of energy-saving lamps to total lighting power = power of energy-saving lamp / total lamp power of plants nationwide
3. Ratio of the power of energy-saving utilities to total power of utilities = power of energy-saving utilities / total power of electric facilities
4. The data covers manufacturing subsidiaries of Zijiang Enterprise nationwide.
5. In 2023, the low price of granules and films led to a lower growth in their total output value, plus a year-on-year increase in total electricity consumption, which together resulted in a slight increase in electricity consumption per RMB 10,000 of output value year on year.

固废管理


Solid waste management

我们针对各类废弃物标准制定严格规定,对废弃物的分类、收集、贮存、处理、回收的全流程进行严格规范管控,确保废弃物的合规处置,并通过生产源头防控、加强废弃物管理等方式有效降低废弃物排放,持续推进危废品减量化、无害化和资源化。

We formulate stringent regulations for all types of waste standards, meticulously overseeing the entire process of waste classification, collection, storage, treatment, and recycling to ensure compliant disposal. By preventing and controlling the source of production and strengthening waste management practices, we effectively reduce waste emissions. This concerted effort aims to continuously 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%



Measures to advance solid waste management

上海紫日包装 Shanghai ZIRI Packaging

- 建立固体废弃物分类收集和处理系统,对固体废弃物进行科学管理和资源化利用;
- 建立危险废弃物处理中心,加强对危险废弃物产生源的监管和管理,从源头上减少危险废弃物的产生。
- Establishing a system for separate collection and treatment of solid waste, and carrying out scientific management and recycling of solid waste;
- Setting up hazardous waste treatment centers to strengthen the supervision and management of sources of hazardous waste generation and reduce the generation of hazardous waste at source.

沈阳紫日包装 Shenyang ZIRI Packaging

- 微生物实验室使用玻璃平板代替一次性塑料平板,减少固废排放52千克;
- 无菌车间消毒剂浓度降低50%,同时地面消毒使用实验室剩余化学品,实现消毒化学品零排放;
- 危废间重置并改造为防渗漏涂层设计、分类存放设计。
- Using glass plates instead of disposable plastic plates in microbiology laboratories, reducing solid waste emissions by 52 kg;
- Reducing disinfectant concentration in the aseptic workshop by 50%, while using the leftover chemicals from the laboratory for the floor disinfection, realizing zero discharge of disinfection chemicals;
- Transforming the hazardous waste room into a new design with leak-proof coating design and classified storage.

上海紫江喷铝 Shanghai ZJMP

- 将废胶水、废溶剂和废抹布产生量纳入部门和工序绩效考核,严格控制生产过程中危险废物产生量。
- Incorporating the generation of waste glue, waste solvent and waste rags into the performance assessment of departments and work processes, and strictly control the generation of hazardous waste in the production process.

关键目标 Key targets

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 | 2025年目标值 Target by 2025 |
|--|---------------|---------------|---------------|----------------------------|
| 有害废弃物处置量 (吨) Treated hazardous wastes (ton) | 1,112.50 | 1,087.9 | 1,273.74 | ≤ 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) | 0.0013 | 0.0012 | 0.00135 | 0.0012 |

注:

1. 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
2. 数据覆盖紫江企业下属制造企业全国工厂
3. 由于2023年产量增加,总产值增长幅度较低,有害废弃物同比增加,致使处置强度同比小幅上升

Note:

1. Hazardous waste refers to those produced by manufacturing subsidiaries of Zijiang Enterprise according to the *National Catalogue of Hazardous Wastes*.
2. The data covers all factories of manufacturing subsidiaries of Zijiang Enterprise nationwide.
3. In 2023, the production increase, the lower growth in total output value, and the year-on-year increase of hazardous waste together led to a slight year-on-year increase in disposal intensity.

水资源管理

Water resources management

我们非常重视水资源的节约和回收利用，不断优化水资源管理，并鼓励下属企业优化生产工艺、推进节水改造，引入新工艺、新技术、新设备优化生产流程，提升水资源利用效率，减少水资源消耗和污染。

Conservation and recycling of water resources are paramount to our operations. Thus, we consistently refine water resource management and urge our subsidiaries to enhance their production processes. We advocate for water-saving renovations by introducing new processes, technologies, and equipment to boost water resource utilization efficiency while curbing water consumption and pollution.

案例 Case 上海紫泉饮料获评上海市节约用水示范（标杆）企业

Shanghai Ziquan Beverage was awarded Shanghai Water Conservation Model Enterprise

经上海市水务局、市经济信息化委联合考评决定，上海紫泉饮料获评 2022 年度上海市节约用水示范（标杆）企业。上海紫泉饮料于 2021 年开展水平衡测试及节水型企业创建工作，2022 年至 2023 年 2 月，实施完成 CIP 站终冲水回收、灌装 CIP 流量优化等节水技改共 8 项，每日节水量可达到 276 立方米。

Shanghai Ziquan Beverage was honored as the 2022 Shanghai Water Conservation Model Enterprise by the Shanghai Water Authority and the Shanghai Economy and Information Technology Commission. The company conducted a water balance test and established itself as a water-saving enterprise in 2021. From 2022 to February 2023, it had completed a total of 8 water-saving technological reforms, including the recycling of end-flush water in the CIP station and optimization of filling CIP flow. These initiatives enabled a daily water-saving amount of up to 276 cubic meters.



饮料OEM事业部下属的上海、南京、沈阳、桂林等饮料工厂采用符合相关标准的处理水进行蔬菜种植。

The Beverage OEM Business Unit's subsidiaries, Shanghai, Nanjing, Shenyang, and Guilin Ziquan Beverages, use treated water for vegetable cultivation.

饮料OEM事业部 Beverage OEM Business Unit

- 委托专业第三方依据 GB/T 7119 的要求开展节水评价工作；
- 南京紫乐饮料获评南京市节水型企业，以及中国饮料工业协会节水优秀企业。
- Commissioning a professional third party to carry out water conservation evaluation based on the requirements of GB/T 7119;
- Nanjing Zile Beverage was awarded Nanjing Water-saving Enterprise, as well as China Beverage Industry Association's Water-saving Excellent Enterprise.

紫东尼龙 Zidong Nylon

- 改造冷却塔实现冷却水的循环利用，每年节水量约500吨。
- Transforming cooling towers to achieve the recycling of cooling water, saving about 500 tons of water per year.

紫燕合金 Ziyan Alloy

- 对废水处理设施进行工艺改造，提升废水处理设施的处理效果。
- Renewing wastewater treatment facilities to improve their performance.

上海紫丹食品 Shanghai Zidan Food

- 改造废水站回用水环节，废水站回用水改造，利用MBR膜处理工艺替代二次加药，改善回用水质。
- Recycling water from wastewater treatment plants and improving reuse water quality by utilizing MBR membrane treatment process instead of secondary dosing.

沈阳紫日包装 Shenyang ZIRI Packaging

- 改进空调机组降温装置，由线式喷水降温改为雾状喷水降温，节约用水5吨。
- Upgrading the cooling device of the air-conditioning unit by changing from linear water spray cooling to fog water spray cooling, saving 5 tons of water.

水资源管理举措

Measures to promote water resources management

关键目标 Key targets

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 | 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) | 2.36 | 2.49 | 2.47 | 2.1 |
| 易拉罐单位饮料水耗用率（升/升） Water consumption per unit of beverage of ringpull can (liter/ liter) | 6.79 | 5.14 | 3.73 | 4.5 |

注：

- 1.单位饮料水耗用率=年耗用水量/年生产饮料总量
- 2.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:

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

废气管理

Exhaust fumes management

2023年，管理总部要求企业建立环保治理的标准化体系，完善检查制度。各工厂建立废气管道阀门点位图、泄漏排查基准书，立足自查与抽查，整改与完善协同治理，在达标减排方面成效明显。

In 2023, the headquarters mandated all subsidiaries to implement a standardized environmental protection system and enhance inspection protocols. Each plant established bitmap graphics for exhaust gas pipeline valves and standardized the work procedures for leakage inspection. Through self-inspection and random checks, rectification and improvements were promoted, resulting in tangible outcomes such as meeting standards and reducing emissions.

案例 Case 紫江新材料多点发力，全面保障废气安全排放

Zijiang New Material makes multiple efforts to ensure the safe emission of exhaust gas on all fronts

2023年，紫江新材料建立环保治理体系，通过严格的检查制度，及时发现潜在的泄漏点，提高泄漏排查的效率和准确性，坚持整改与完善协同治理，致力于降低废气污染物的排放量，减少泄漏事故的发生。

In 2023, Zijiang New Materials established an environmental protection governance system, enabling timely identification of potential leaks through rigorous inspections. This approach significantly improved the efficiency and accuracy of leakage detection. We remained committed to collaborative measures for rectification and improvement, diligently reducing the emission of waste gas pollutants and minimizing the occurrence of leakage accidents.

RTO机组系统VOC隐患泄漏点排查暂行基准书 Provisional Work Standard for VOC Hidden Leakage Inspection of RTO Unit System

| 名称 Name | 类别 Category | 序号 Serial | 部位 Position | 基准 Benchmark |
|------------------------|------------------------|--------------|--------------------------------|--------------------------|
| RTO主风机 RTO main fan | 检查点 Inspection Area | 1 | 设备表面 Equipment surface | 清理、擦拭 Clean and wipe |
| | | 2 | 风管的接缝处 Joints of air ducts | 目测 Visualization |
| | | | | |
| RTO全景图 RTO Panorama | 测试点 Test Area | 1 | 设备四周空地 Around equipment | 测试、嗅觉闻 Test and smell |
| | | 2 | 风管与风管接缝 Duct-to-duct joints | 测试、嗅觉闻 Test and smell |
| | | | | |



紫东尼龙通过启动锅炉油改气工程，锅炉排放废气实现100%达标，每年增效约135万元。

Zidong Nylon has achieved 100% compliance with standards in terms of boiler emissions by launching the boiler oil-to-gas conversion project, increasing efficiency valued at about RMB 1.35 million per year.



紫江新材料建设RTO塔等环保设施，保证生产过程产生的废气经过充分处理后达标排放。

Zijiang New Material builds RTO towers to ensure that the waste gas generated in the production process is adequately treated and discharged in compliance with standards.



上海紫江喷铝将水性涂料中醇类含量自25%降至约10%，VOCs年排放量20毫克/立方米，为排污许可证限量的40%。

Shanghai ZJMP has reduced the alcohol content in water-based coatings from 25% to about 10% by treating it from the very beginning. In 2023, the annual average emission of VOCs is 20 mg/m³, which is 40% of the limit of the emission permit.



上海紫江彩印对废气处理设施进行改造。2023年，RTO环保治理装置的每万元产值能耗为0.0108吨标煤，同比降低54.81%。

Shanghai Zijiang Color Printing has reformed waste gas treatment facilities. In 2023, energy consumption per RMB 10,000 of the output value of the RTO environmental protection treatment device was 0.0108 tons of standard coal, a year-on-year decrease of 54.81%.

关键绩效 key performance

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 |
|---|---------------|---------------|---------------|
| 废气治理投入 (万元) Investment in waste gas treatment (RMB 10,000) | 1,538.84 | 1,304 | 2,477 |
| 控排企业NMHC排放量 (吨) NMHC emissions of subsidiaries under waste gas treatment control (ton) | 86.32 | 77.27 | 45.20 |
| 控排企业NOx达标排放量 (吨) NOx up-to-standard emission of subsidiaries under waste gas treatment control (ton) | 1.67 | 1.93 | 2.21 |

注:

- 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
- 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:

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

关键目标 Key targets

| 指标内容 Indicator | 2021年 2021 | 2022年 2022 | 2023年 2023 | 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 | 37.00% | 39% | 35.80% | ≥ 40% |
| 单一材质薄膜产品占比 Proportion of Mono-material products | 83.42% | 87.51% | 76.00% | ≥ 85% |

注:

1. 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
2. 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)
3. 数据覆盖紫江企业下属制造企业全国薄膜印刷工厂
4. 由于医药大健康产品的结构主要是非单一聚烯烃结构，并且医药大健康将作为未来三年重点发展领域，因此将无溶剂复合替代溶剂型复合率的2025年目标值从原先55%下调至40%
5. 由于医药大健康产品的结构主要是非单一聚烯烃结构，因此2023年无溶剂复合替代溶剂型复合率与单一材质薄膜产品同比小幅下降

Note:

1. Ratio of solvent-based synthesis replaced by solvent-free synthesis = Annual output of solvent-free synthesis / Annual output of synthesis
2. Proportion of Mono-material products = Annual output of Mono-material products / Total annual output of Mono-material products and multi-material thin film printing products
3. The data covers all thin film printing factories of Zijiang Enterprise nationwide.
4. Since the products of Big Health are mainly non-single polyolefins, and we are prioritizing the Big Health as a key focus in the next three years, the target for solvent-free laminating products substituting solvent-based products by 2025 has been lowered from the original 55% to 40%.
5. Since the products of Big Health are mainly non-single polyolefins, the solvent-free laminating products substituting solvent-based products and single material film products have both slightly decreased year-on-year in 2023.

凝聚绿色共识

Building Consensus on Green Practices

我们为唤起利益相关方建设美丽中国的成就感、自豪感和主人翁意识，不断以形式丰富、内容充实的环保宣传教育等活动为载体，鼓励更多人把绿色环保、低碳节约践行到生活点滴中，倾注到日常习惯上，共同建设美丽地球家园。

To instill a sense of achievement, pride, and ownership among stakeholders in contributing to the creation of a beautiful China, we persist in conducting educational activities with diverse formats and content. These initiatives aim to inspire more individuals to embrace green environmental protection and adopt low-carbon practices in their daily lives. Together, we endeavor to construct a beautiful world for all humankind.



纸包装事业部举办紫丹首届环保创意时装秀，让绿色时尚蔚然成风。
The Paper Packaging Business Unit organized Zidan first fashion show focusing on environmental creative ideas to make sure that green fashion has become a trend.



紫丹印务上线点餐系统，倡导员工节俭用餐。
Zidan Printing rolled out an on-line ordering system to encourage employees to order food on demand and eliminate waste.



02 人本至上 兼善同行

紫江企业致力于携手员工、伙伴、客户等利益相关方，在安全共守、员工共享、伙伴共赢、社区共创上解难点、疏堵点、除痛点，不断把彼此对美好生活的向往变成现实。

Pulling Together with People-Oriented Management

Zijiang Enterprise dedicates itself to collaborating with employees, partners, customers, and other stakeholders to address challenges, remove obstacles, and alleviate concerns in our endeavors towards safety co-maintenance, employee engagement, and win-win partnerships, and community involvement. We continuously strive to translate the collective aspirations for a better life into tangible outcomes.



我们的举措 Our initiatives

- 夯实安全体系
Reinforcing safety management system
- 赋能员工成长
Empowering employee growth
- 聚力伙伴共赢
Working with partners for mutual benefits
- 共建美好家园
Building a better homeland together



我们的成效 Our performance

- 职业危害事故 **0**起
0 occupational accidents happened
- 劳动合同覆盖率 **100%**
Employment contract coverage 100%
- 社会保险覆盖率 **100%**
Social insurance coverage 100%
- 累计取得上海开放大学
学历人数 **542**人
542 employees in total obtained degrees from Shanghai Open University
- 员工敬业度平均分 **92.4**分
92.4 points scored for average employee dedication
- 紫江企业各事业部及下属
企业公益捐赠金额 **417.8**万元
RMB 4.178 million of charitable donations made by the Business Units and subsidiaries

夯实安全体系

Reinforcing safety management system

经过多年的安全管理实践，我们认识到严密的安全体系是杜绝安全事故的最根本保障。作为“一把手工程”，企业安全体系的构建必须由企业领导者亲自参与设计，体系的有效运行有赖于企业中层领导的安全履责，体系的严密性则与广大员工的安全能力密不可分。

Through years of safety management experience, we have come to understand that a robust safety framework is essential for preventing and mitigating safety incidents. We embrace a top-down management approach, spearheaded by our senior leadership. Our company leaders actively participate in designing and developing the safety system. The effectiveness of this system hinges on the safety performance of mid-level managers, while its strength is intricately linked to the safety competencies of our workforce.

纵向到底抓落实

Implementing safety management system hierarchically to the letter

针对2022年度开展安全评审归纳的不足项，公司安委会对各事业部及单体企业总经理进行了专题反馈与培训，并组织内部专家进行企业家的互助，对部分薄弱企业分别进行了多场次、个性化、专业化的指导，力促各企业补足短板完善体系。

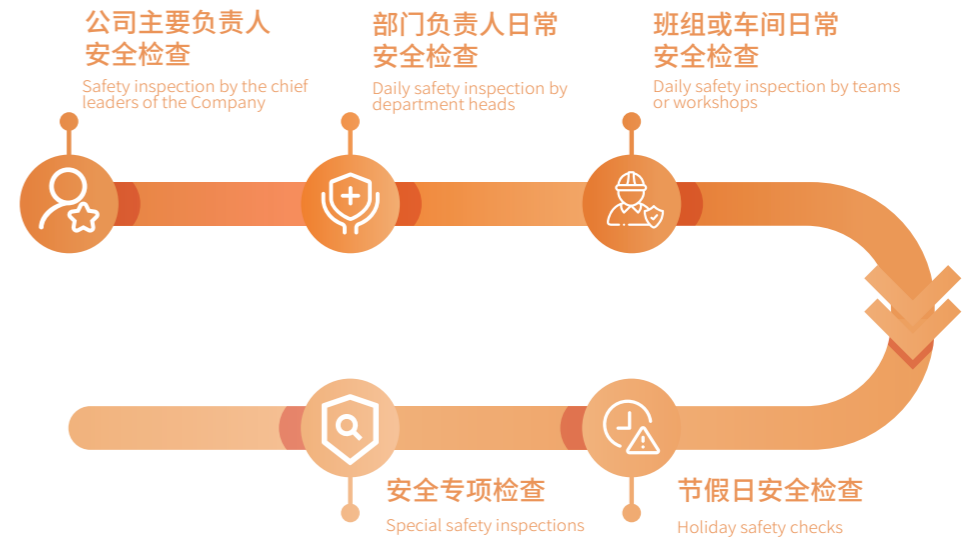
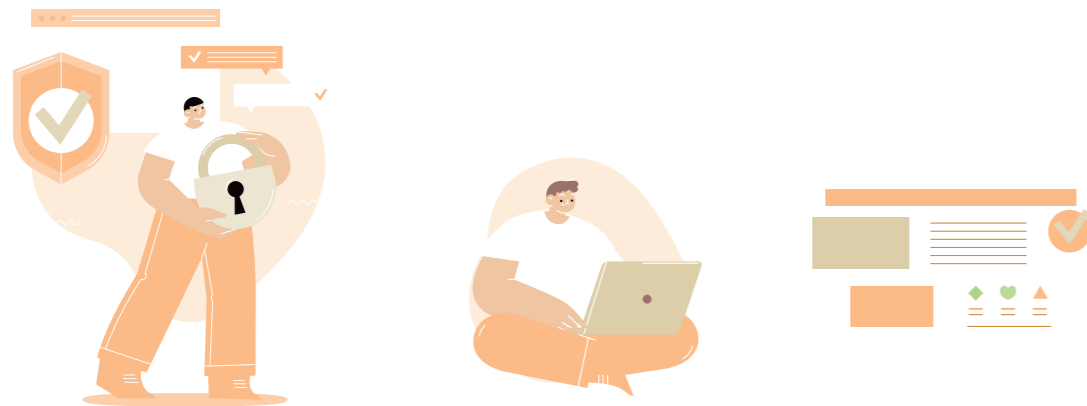
2023年，公司安委会将“检查机制的完善”与“风险识别”作为工作重点，尤其关注各企业中层经理自身的安全履责以及他们对于员工在风险认知、防范方面的培训，推动安全管理纵向到底、责任到岗、考核到人。

各下属企业以安全评审的缺陷项改善为抓手，持续提升安全管理水平。在2023年底公司安委会开展的年度事业部与单体企业安全评价中，各企业安全管理能级进步明显。

Recognizing the shortcomings highlighted in the 2022 safety review, the Safety Committee of the Company provides special feedback and training for the general managers of the Business Units and individual subsidiaries. Besides, the Safety Committee assigned internal experts to facilitate knowledge-sharing among business leaders, offering personalized and professional guidance across multiple sessions to support vulnerable subsidiaries. These initiatives were aimed at addressing deficiencies and enhancing overall system performance.

In 2023, the Safety Committee prioritized the "improvement of the inspection system" and "risk identification". This emphasis extended particularly to evaluating the safety performance of mid-level managers across each subsidiary and providing training to enhance employee awareness and prevention of risks. These efforts were aimed at fostering a culture of hierarchical accountability in safety management, ensuring adherence to safety protocols at every level.

Each subsidiary leverages the identification of safety deficiencies uncovered in the safety review as a catalyst for ongoing enhancements in safety management practices. In the annual safety evaluation of Business Units and individual subsidiaries carried out by the Safety Committee at the end of 2023, each subsidiary demonstrated significant improvement in safety management.



紫江企业以系统化的安全检查制度杜绝安全事故发生，将安全管理的职责落实到每一个层级，提升安全管理能级。
Zijiang Enterprise deploys a systematic safety inspection system to prevent and eliminate safety accidents, with accountability in place at each level to improve safety management.

案例 Case 创新开展风险源辨识工作，可视化分解助安全

Identifies hazards in a new way with visualized breakdowns to promote safety

2023年，紫丹印务组织机台操作人员、小组长、技术主管、现场主管和部门安全员从工厂的风控报告开始梳理，现场盘点和确认每台机器的风险源，帮助员工进一步明晰机器危险源。

In 2023, at Zidan Printing, machine operators, team leaders, technical leaders, on-site supervisors, and department safety officers initially reviewed the factories' risk control report. Subsequently, they conducted on-site inspections to identify and confirm the hazards associated with each machine, aiming to enhance employee awareness of machine-related hazards.



风险源分解张贴，警示安全操作
Hazard breakdowns are put up as a reminder of safe operation

培养员工安全能力

Cultivating employees' safety capabilities

我们深知员工对于安全的专业认知与重视程度直接决定了企业安全管理的水平。为此，我们制定系统的安全培训计划，通过日常班组培训、岗位专项培训、安全知识竞赛等形式，提升员工对安全的认知水平与安全能力。

We recognize that the extent of employees' understanding and commitment to safety directly impacts the effectiveness of our safety management practices. Consequently, we have developed systematic safety training programs aimed at bolstering employees' safety awareness and competencies. These initiatives encompass a range of activities, including daily team training sessions, role-specific training modules, and safety knowledge contests.

案例 Case 瓶盖标签事业部组织开展安全微电影拍摄竞赛

The Crown Cap & Label Business Unit organizes safety micro-film shooting competition

2023年，瓶盖标签事业部举办安全微电影拍摄竞赛活动。各工厂针对风险辨识中高风险区域（活动），模拟可能发生的安全事故，采用视频和讲解方式对安全事故发生的原因、发生过程及事故处置等用微电影方式呈现，增强员工安全意识，进一步提高安全生产的水平。

In 2023, the Crown Cap & Label Business Unit organized a safety-themed micro-film shooting competition. Each factory simulated potential safety accidents that could occur in high-risk areas identified during risk assessments. These scenarios were then depicted and explained in micro-films, outlining the causes, processes, and appropriate responses to accidents. This initiative was designed to heighten employees' safety awareness and reinforce work safety practices across the board.



安全微电影拍摄竞赛

Safety-themed micro-film shooting competition

案例 Case 紫华科技组织召开安全晨会

Zihua Technology organizes safety morning meeting

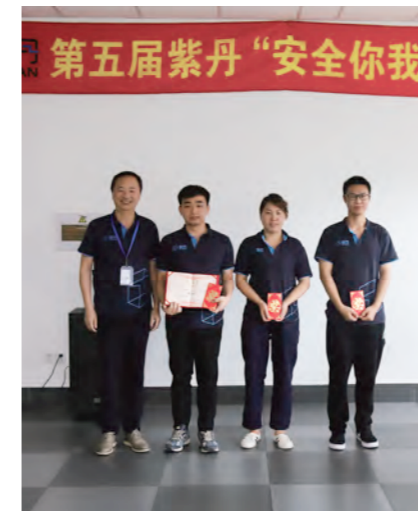
紫华科技将安全生产作为工作的重中之重，不仅要求安全监管部管理层每日开展安全巡查，并在每日运营晨会上通报安全隐患并要求及时整改，还要求生产车间于每日早会对员工进行安全宣导，并通过车间电子屏幕滚动播放事故警示片，使员工在潜移默化中增强安全意识，自觉遵守安全生产规定。

Zihua Technology takes work safety as the top priority and conduct daily safety inspections and promptly address any identified safety hazards during the morning meetings. Simultaneously, production workshops were tasked with organizing safety education sessions for employees during their daily morning meetings. Accident videos were consistently played on electronic screens within the workshops to subtly influence employees, thereby enhancing their safety awareness and fostering a conscious adherence to work safety regulations.



紫华科技安全晨会

Zihua Technology morning safety meeting



纸包装事业部开展“安全你我他”活动。
The Paper Packaging Business Unit carries out the activity "For the Safety of All".



紫江国贸开展急救相关知识科普。
Zijiang Int'l Trade educates employees on first aid.



上海紫日包装打造员工安全培训教室。
Shanghai ZIRI Packaging sets up a classroom for employee safety training.

| 下属企业名称 Name of subsidiaries | 组织安全培训 (场) Number of safety training organized | 安全培训人数 (人次) Number of trainees |
|---|---|-----------------------------------|
|  容器包装事业部 (事业部及全国7个大区39家工厂) Container Packaging Business Unit (Business Unit and 39 factories in 7 major regions across China) | 414 | 41,529 |
|  瓶盖标签事业部 (事业部及全国8家工厂) Crown Cap & Label Business Unit (Business Unit and 8 factories across China) | 337 | 7,059 |
|  饮料OEM事业部 (事业部及全国8家工厂) Beverage OEM Business Unit (Business Unit and 8 factories across China) | 278 | 6,535 |
|  纸包装事业部 (事业部及全国5家工厂) Paper Packaging Business Unit (Business Unit and 5 factories across China) | 378 | 29,385 |
|  紫日包装 (沈阳、上海、四川、广东四地工厂) ZIRI Packaging (four factories in Shenyang, Shanghai, Sichuan and Guangdong) | 117 | 4,665 |
|  紫江彩印 (上海与安徽两地工厂) Zijiang Color Printing (two factories in Shanghai and Anhui) | 43 | 2,242 |
|  紫江新材料 Zijiang New Material | 70 | 2,238 |
|  紫燕合金 Ziyan Alloy | 65 | 1,268 |
|  紫华企业 Zihua Enterprise | 20 | 283 |
|  紫东尼龙 Zidong Nylon | 8 | 126 |
|  紫江喷铝 (上海与安徽两地工厂) ZJMP (two factories in Shanghai and Anhui) | 16 | 1,240 |

提升应急处理能力防事故

Improving emergency response capabilities to prevent accidents

我们不断优化安全事故应急管理体制，对各类风险源及风险区域实施动态评估，持续加强应急救援队伍建设，积极开展应急预案培训与实际操作演练，提高事故应对和处置能力，力求将安全事故的危害降至最低。

We are committed to continuously enhancing our safety emergency management system, conducting dynamic risk assessments for various hazards and risk areas, we prioritize the establishment of emergency rescue teams. Through proactive training and drills on emergency response plans, we strive to enhance our ability to effectively respond to and manage emergencies, thereby minimizing the impact and losses resulting from safety accidents.



消防实战演练。
Firefighting practice drill.



应急消防演练。
Emergency fire drill.

智能化助力安全管理效率

Increasing safety management efficiency with intelligent technology

我们继续深化安全的智能化管理。容器包装事业部的企业微信安全平台、纸包装事业部的安全守护神将他们各省市的工厂纳入管控范围。紫东尼龙的安全巡检系统以及其他企业自行开发的微信小程序、钉钉等软件为及时传递安全检查信息，提升整改与反馈效率，发挥了重要作用。

We continue to advance intelligent safety management practices. The safety WeCom platform of the Container Packaging Business Unit and the Safety Guardian of the Paper Packaging Business Unit have included their factories in various provinces and cities under safety control. Furthermore, Zidong Nylon's safety inspection system, in addition to WeChat mini-programs and DingTalk, among other software developed by external entities, serve as effective channels for promptly transmitting safety inspection information. These platforms enhance the efficiency of rectification and feedback processes, contributing to overall safety improvement efforts.

案例 Case 纸包装事业部引进智能温度监控系统，提升安全管理效率

The Paper Packaging Business Unit introduces an intelligent temperature monitoring system to improve the efficiency of safety management

为提升防治设备各加热单元（大功率电器）持续高温（过载）产生安全隐患的效率和准确性，纸包装事业部引进智能温度智能监控系统，将现场温度数据反馈至监控平台，并在车间现场监控大屏上进行实时监控，进一步确保各个加热、发热单元及大功率用电器的安全性，降低设备故障率。这一举措，为日常高处及隐蔽工程的安全管控提供了很好的借鉴意义。

To boost the efficiency and precision of preventing safety hazards arising from prolonged high temperatures (overload) in heating units (high-powered electrical appliances), the Paper Packaging Business Unit has implemented an intelligent temperature monitoring system. This system relays on-site temperature data to a centralized monitoring platform, displaying it on large monitors for real-time monitoring. This proactive measure enhances the safety of heating units and high-powered electrical appliances, reducing equipment failure rates. Moreover, this approach serves as a valuable reference for safety management during daily work at height and concealed operations.

职业健康促安全

Promoting safety by focusing on occupational health

我们持续完善职业健康安全管理体系，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，以职业病体检、职业病危害因素检测、岗位安全管理培训、劳保工具和安全监测装置的配备等举措，把准职业健康“脉搏”，开好员工安全“精准方”“智慧方”。

We are committed to enhancing our Occupational Health and Safety (OH&S) management system by refining the occupational diseases monitoring system and file management procedures, while also developing robust emergency preparedness and response plans. Our initiatives include offering occupational physical examinations, conducting occupational health and safety inspections, providing on-the-job safety management training, and supplying personal protective equipment and safety monitoring devices. These measures enable us to effectively monitor and address occupational health concerns, ensuring the safety and well-being of our with targeted and proactive measures.

关键绩效 Key performance

职业危害事故

0起

0 occupational accidents happened

特种作业人员持证上岗率

100%

Certificate-holding rate of special operation: 100%

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 happened in subsidiaries

| 体系名称 Name of system | 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. |
| | 上海紫江国际贸易有限公司 Shanghai Zijiang International Trading Co., Ltd. |
| | 上海紫江新材料科技股份有限公司 Shanghai Zijiang New Material Technology Co., Ltd. |
| | 上海紫江喷铝环保材料有限公司 Shanghai Zijiang Metallization Environmental Protection Material Co., Ltd. |
| | 上海紫丹印务有限公司 Shanghai Zidan Printing Co., Ltd. |
| | 上海紫江彩印包装有限公司 Shanghai Zijiang Color Printing & Packing Co., Ltd. |
| | 南京紫乐饮料工业有限公司 Nanjing Zile Beverage Industry Co., Ltd. |
| | 上海紫泉饮料工业有限公司 Shanghai Ziquan Beverage Industry Co., Ltd. |
| 沈阳紫泉饮料工业有限公司 Shenyang Ziquan Beverage Industry Co., Ltd. | |

案例 Case 紫江沈阳三厂联合组织开展初级救护员培训

Three factories of Zijiang Enterprise in Shenyang jointly organize a basic first-aid training

2023年，沈阳紫日包装、沈阳紫江包装及沈阳紫泉饮料三家工厂联合邀请专业救护人员开展初级救护员培训，帮助员工了解心脏病症状、早期诊断、急救方法基本知识、步骤和注意事项等，掌握急救要领，提升员工处理意外事故的施救能力。

In 2023, the three factories located in Shenyang ZIRI Packaging, Shenyang Zijiang Packaging, and Shenyang Ziquan Beverage collaborated to organize basic first-aid training sessions facilitated by professional rescuers. These sessions enabled employees to swiftly familiarize themselves with the symptoms and early diagnosis of heart disease, as well as the basic steps, precautions, and essentials of first aid. Such training initiatives were designed to bolster employees' capacity to effectively respond to accidents and emergencies.

案例 Case 上海紫泉包装以打包系统的自动化减低员工劳动强度

Shanghai Ziquan Packaging uses automated packaging systems to reduce work intensity

2023年，上海紫泉包装自动打包系统全面竣工并顺利投入使用，瓶盖生产的打包流程实现从传统到自动化、智能化的革命性转变。通过自动套袋、自动打包、自动贴标、自动码垛等功能，实现总劳动生产率提升8%，极大改善员工工作环境，有效降低员工的劳动强度。

In 2023, Shanghai Ziquan Packaging successfully completed the full implementation of its automated packaging system, marking a pivotal shift from traditional packaging methods to automated and intelligent processes for cap production. This transformative system, equipped with features such as automatic bagging, packaging, labeling, and palletizing, resulted in an overall productivity surge of 8%. This enhancement significantly enhanced the working environment and notably alleviated the workload for employees.



上海紫泉包装自动打包系统
Automatic packaging system of Shanghai Ziquan Packaging



▲ 安徽紫泉智能标签被评为“马鞍山市健康企业”。
Anhui Ziquan Smart Label is awarded as "Healthy Enterprise in Ma'anshan City".



▲ 上海紫江彩印采用隔音墙保障作业人员职业健康。
Shanghai Zijiang Color Printing uses soundproof walls to ensure the occupational health of workers.

赋能员工成长

Empowering Employee Growth

为进一步拓展员工成长空间，增强员工创新活力，我们持续优化员工权益保障机制，完善人才培养制度体系，根据员工的岗位需求和职业规划，因人施策，让员工成为真正的“全能型选手”，为其在人生道路上展现更大作为提供有力支撑。

To foster an environment conducive to employee growth and innovation, we are committed to continually enhancing mechanisms to safeguard employee rights and interests, as well as refining our talent development system. We tailor our strategies for employee development according to their job roles and career aspirations, empowering them to evolve into well-rounded professionals. By providing robust support, we enable employees to realize their full potential and achieve greater success along their career journey.

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，全面落实《人力资源管理规范手册》《管理总部员工手册》等管理政策，对不同性别、国籍、民族、宗教信仰的员工给予充分尊重，并杜绝使用童工、严禁强迫劳动、反对任何歧视，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 relevant Chinese laws and regulations, such as the *Labor Law* and the *Trade Union Law*, Zijiang Enterprise has fully implemented human resource management policies, including the *Human Resource Management Manual* and the *Employee Manual at the Management Headquarters*. We uphold a culture of respect for all employees, regardless of gender, nationality, ethnicity, or religious belief. Moreover, we vehemently oppose the use of child labor, forced labor, and any form of discrimination. We strive to provide every employee with equitable career development opportunities.

关键绩效 Key performance

员工总数

6,936人

6,936 employees in total

下属企业女性高管占比

17.5%

Percentage of female executives in subsidiaries: 17.5%

残疾员工人数

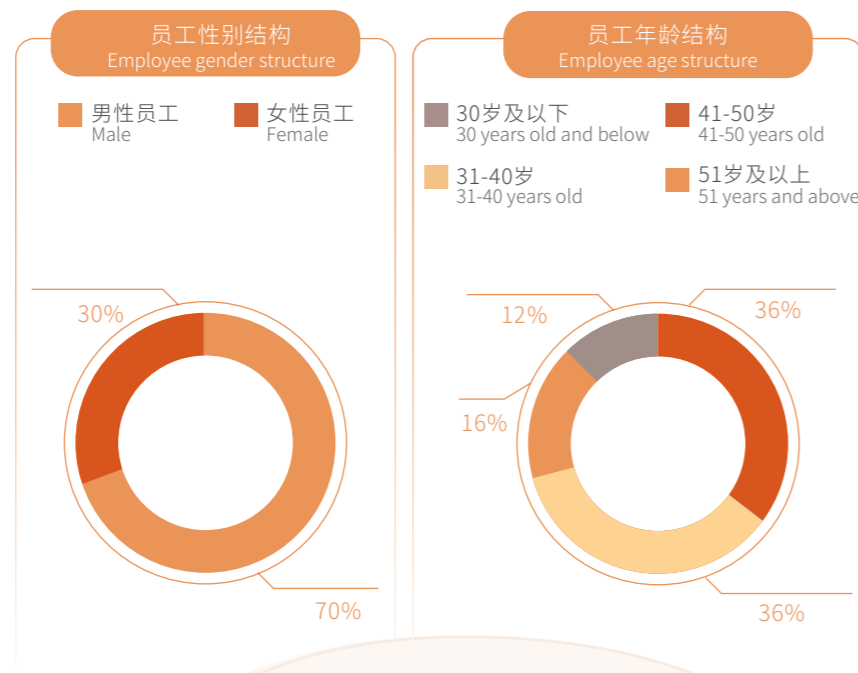
26人

Number of employees with disabilities: 26

劳动合同覆盖率

100%

Employment contract coverage: 100%



完善员工福利

Improving employee benefits

关键绩效 Key performance

社会保险覆盖率

100%

Social insurance coverage: 100%

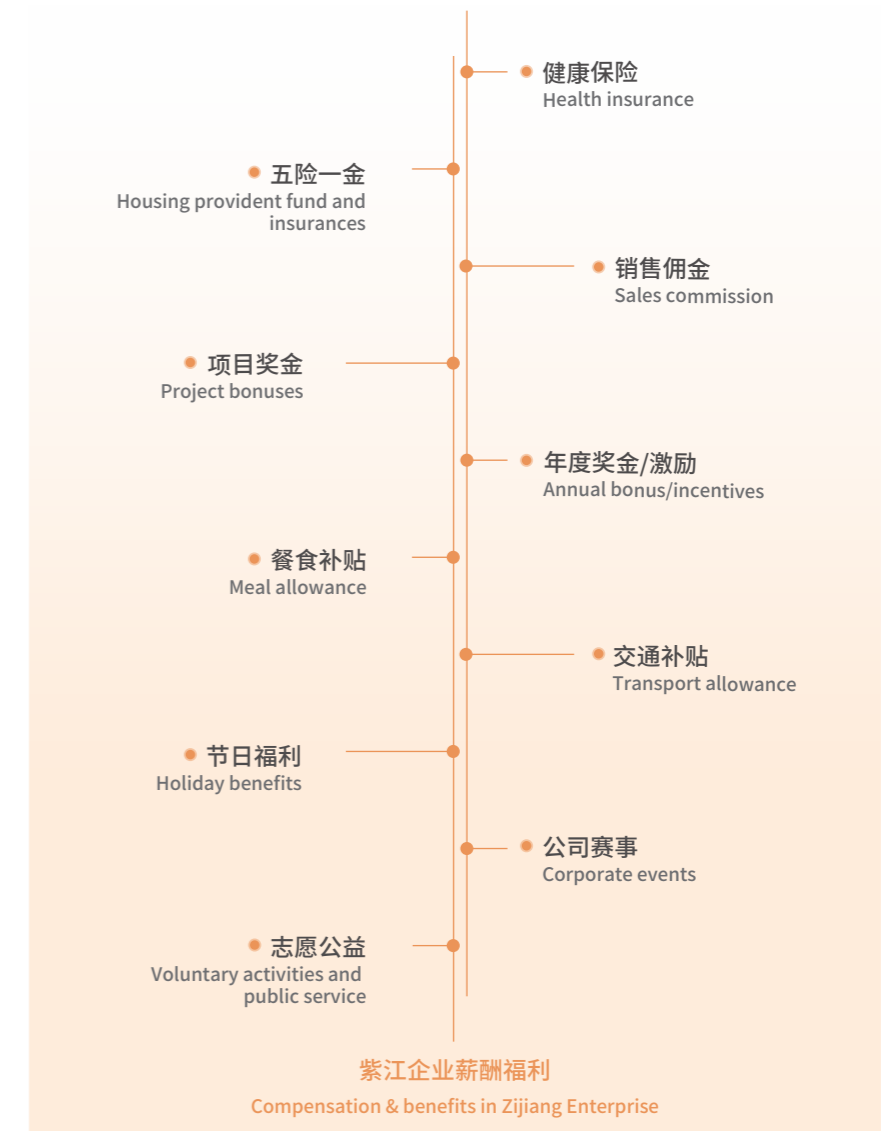
育婴后返岗率

100%

Employees' return rate after parental leave: 100%

我们严格遵守地方最低工资标准，按时足额发放工资，建立具有持续激励性的薪酬制度，并为员工提供包括带薪休假、生活补贴、节日福利等在内的多种福利，着力提高员工职业安全感。

We strictly adhere to the local minimum wage regulations, ensuring that wages are disbursed promptly and in full. Additionally, we have implemented a sustainable and incentivizing compensation and benefits system, offering employees a variety of benefits such as paid leave, living allowances, and holiday benefits. These initiatives are designed to enhance job security and foster a supportive work environment for our employees.



呵护员工健康

Taking care of employee health

我们在确保员工身体健康的同时也关注员工心理健康，通过提供心理健康支持服务、心理健康培训课程等措施，帮助员工有效缓解应对来自各方面的心理压力，获得更好的平衡状态。

While ensuring the physical health of employees, we also place a strong emphasis on their mental health. We implement measures such as offering support services and conducting training courses focused on mental health. These initiatives will assist employees in effectively managing and alleviating mental stress from various sources, ultimately promoting a better work-life balance.



提供心理健康支持和咨询服务
Providing psychological counseling

- 设立专门的心理健康部门或雇佣专业心理咨询师，为员工提供心理咨询和支持服务；
- 建立员工心理健康热线或在线平台，方便员工随时寻求帮助。
- Establishing a dedicated mental health department and hiring psychological counselors to provide professional and comprehensive psychological counseling and support services for employees;
- Setting up an employee mental health hotline or online platform to facilitate employees to seek help at any time.



开展心理健康培训
Conducting mental health training

- 提供心理健康培训课程，帮助员工了解心理健康的重要性以及应对压力和情绪管理的技巧；
- 制定个人发展计划，帮助员工实现工作与生活的平衡。
- Providing mental health training courses for employees to promote their understanding of the importance of mental health and practical skills in stress and emotion management;
- Devising a personalized development plan to help employees achieve work-life balance.



促进健康的工作环境和氛围
Creating a healthy workplace

- 创造一个积极、支持和尊重的工作环境，鼓励员工之间的合作和沟通；
- 减少工作压力和加班，提供适当的工作休息和假期安排。
- Creating a positive, supportive and respectful environment and encouraging full cooperation and communication among employees;
- Reducing work stress and overtime, and providing appropriate breaks and holidays.

广东紫日包装保障员工心理健康举措

Measures taken by Guangdong ZIRI Packaging to ensure employees' mental health

案例 Case 紫华科技为员工开展情绪管理相关培训课程

Zihua Technology offers training courses related to emotion management for employees

2023年，紫华科技特邀闵行总工会老师前来开展情绪管理课程培训，为职工传授调整和管理情绪的方法和技巧，进一步增强公司职工的心理健意识，提高心理健康教育水平，把关心职工身心健康落到实处，提高员工的幸福指数，帮助大家做情绪的主人，快乐工作，健康生活。

In 2023, Zihua Technology specially invited teachers from the Minhang Federation of Trade Unions to offer specialized courses on emotion management. These courses focused on equipping employees with tactics and skills to regulate and manage emotions effectively, thereby enhancing their awareness of mental health. By actively promoting mental health education, the company demonstrated genuine care for the physical and mental well-being of its employees through concrete actions. The initiative aimed to improve employees' psychological well-being, empowering them to take control of their emotions, work joyfully, and lead healthy lives.



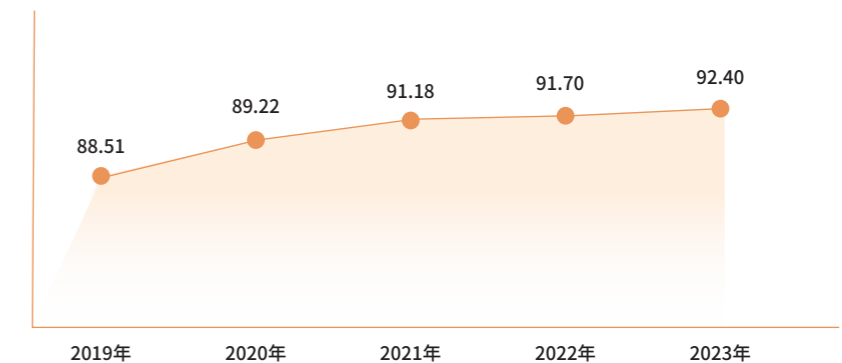
情绪管理相关培训课程
Training courses related to emotion management

倾听员工心声

Listening to the voices of employees

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及建议，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。2023年，共有6,031名员工参加了问卷调查，占全部员工的87.1%，敬业度的平均分数92.4分，比上年度上升0.7分。

We listen to each employee for their career aspiration. Through communication channels such as the *Employee Dedication Survey Questionnaire*, we actively encourage employees to express their thoughts and suggestions regarding work and life. By involving them in corporate decision-making and operations, we foster a culture of inclusion and empowerment. Since 2005, we have utilized the *Employee Dedication Survey Questionnaire* to gather insights into employee support and ideas for our business management. In 2023, a total of 6,031 employees, representing 87.1% of the entire workforce, participated in the survey. The average engagement score increased to 92.4, marking a 0.7-point improvement compared to the previous year.



2019-2023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 2019 to 2023 (the average scores of listed subsidiaries)

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's employee dedication survey covers over 66.67% of employees of each subsidiary. For subsidiaries with fewer than 100 employees, it is mandatory for every employee to participate and provide responses to the questionnaires.



瓶盖标签事业部举办30周年庆员工座谈会——“我们与紫泉的故事”。
Crown Cap & Label Business Unit holds a 30th-anniversary employee symposium – "Our Story with Ziquan".



“三十年见证公司的发展与改革，每一次成功都是团队的智慧与付出的结晶，每一次失败都是我们共同经验与教训。在这个大家庭里我学到了很多，不仅是自己的进步，更是团队的合作意义！”

——上海紫泉包装员工 张本庆

"I've been with the company for thirty years, witnessing its evolution and transformative journey. Every success we've achieved has been a collective result of our team's wisdom and dedication, while every setback has been a shared learning experience. Within this expansive family, I've gleaned invaluable lessons, not just in terms of personal growth, but also in understanding the profound significance of teamwork!"

—Zhang Benqing, an employee of Shanghai Ziquan Packaging



“2023年，在成为紫江人的第7个年头，我完成了自己的终身大事，与心爱之人喜结连理。同时，在工作岗位上，我也收获颇多，实现了金佰利、宝洁等多个新项目的开发，并获得了第八届紫江青年创新奖、闵行技术能手的荣誉，还拿到了中级职称证书，收获满满。”

——上海紫泉标签员工 李莹莹

"2023 marks my seventh year at Zijiang Enterprise, and it also commemorates my marriage to my beloved partner. Alongside personal milestones, I've achieved significant professional growth. I spearheaded new projects, including partnerships with Kimberly-Clark and P&G. Moreover, I was honored with the 8th Zijiang Youth Innovation Award, recognized as a Minhang Technical Expert, and awarded the Certificate for Intermediate Title. It has truly been a fruitful year!"

—Li Yingying, an employee of Shanghai Ziquan Label



“公司的发展壮大，并没有忘记我们这些老员工，非常感谢公司全额出资为我们这些基层干部提供学历提升计划，帮助我们不断的提升自己。对此，我心怀感恩，非常感谢公司。”

——上海紫泉标签员工 高炳伟

"Despite the company's growth and progress, it doesn't forget us, the old employees. I'm immensely grateful to the company for offering fully-funded academic advancement programs for grassroots cadres like myself, enabling us to continually enhance our skills and knowledge. A heartfelt thank you to the company".

—Gao Bingwei, an employee of Shanghai Ziquan Label



“自成立三十年来，公司不仅取得了丰硕的业绩，更为社会培养了大量优秀的人才。今天，我们作为紫泉公司的新员工，能够加入这个大家庭，是我们人生中的一笔宝贵财富。”

——上海紫泉包装员工 陈琳

"Over the past 30 years since its inception, the company has not only achieved remarkable success but has also nurtured a multitude of exceptional talents for society. As newcomers to Ziquan, being a part of this esteemed family is and will continue to be a priceless asset in our lives".

—Chen Lin, an employee of Shanghai Ziquan Packaging

助力员工发展

Promoting employee development

关键绩效 Key Performance

上海开放大学新增学员

67人

67 employees newly enrolled in Shanghai Open University

累计入学上海开放大学人数

622人

622 employees in total enrolled in Shanghai Open University

参加学历提升的员工数量占比

8.2%

8.2% of employees gained academic advancement

取得上海开放大学大专学历人数

53人

53 employees obtained a college degree from Shanghai Open University

取得上海开放大学本科学历人数

69人

69 employees obtained a bachelor's degree from Shanghai Open University

累计取得上海开放大学学历人数

542人

542 employees in total obtained degrees from the Shanghai Open University

为契合员工发展需求，我们持续推进人才梯队建设，加强对总经理、高级职员、管理人才和高级技术人才的潜力培养，并开设卓越运营班，新增对生产、设备、技术、品控四个职能的专业人员的培训课程，培养不同专业人员在部门协同中的业务能力。此外，我们通过开放大学教育、成立工匠工作室、组织技能竞赛等培养模式助力员工学历及职业技能的提升，不断为公司人才“蓄水池”蓄足发展源动力。

To meet the evolving development needs of our employees, we are committed to building talent echelon. We intensify efforts to unlock the potential of general managers, senior executives, management talents, and senior technical experts. Moreover, we have introduced the Excellent Operation Program, offering tailored training courses for professionals across four key functions: production, equipment, technology, and quality control. These courses are designed to enhance their effectiveness in cross-departmental collaborations. Additionally, through initiatives such as the Shanghai Open University education program, the establishment of technician studios, and the organization of skill competitions, we facilitate skill enhancement and academic advancement among our workforce. This strategic approach ensures the continual enrichment of our talent pool, essential for the sustainable growth of the Company.



紫日包装举办首次师徒带徒仪式，支持青年员工实现快速成长。

ZIRI Packaging holds an apprenticeship program launch ceremony for the first time to drive the rapid growth of young employees.



瓶盖标签事业部、上海紫丹食品组织技能比武，挖掘员工潜力。

The Crown Cap & Label Business Unit and Shanghai Zidan Food organized skills competition to tap the potential of their employees.



沈阳紫泉饮料启动“火炬计划”，助力管理者小步快走。

Shenyang Ziquan Beverage launches the "Torch Program" to help managers take small but swift steps forward.



容器包装事业部组织开展内训师培训，提升内部培训质量。

The Container Packaging Business Unit conducts internal lecturer training to improve the quality of internal training.



容器包装事业部成立“东东工匠工作室”，赋能年轻技术骨干成长。

The Container Packaging Business Unit established the Dongdong Studio to empower young technical talents to grow.



饮料OEM事业部开设“睿进班”，提升中层管理团队系统思维和管理能力。

The OEM Business Unit sets up the "Leadership Program by Ruilin" to enhance the systematic thinking and management competencies of mid-level management.

焕发员工活力 Energizing employees

我们致力于营造有凝聚力的文化，通过积极组织运动会、开展团建活动等丰富员工的业余文化生活，鼓励员工快乐工作，让员工在工作之余感受到紫江大家庭的关怀与温暖。

We are committed to fostering a cohesive company culture at Zijiang. By actively organizing recreational activities like sports games and team-building events, we aim to enhance employees' leisure experiences. This encourages a happier work environment and ensures that our employees feel the care and warmth of the Zijiang family beyond their work duties.



纸包装事业部举办第11届员工运动会。
The Paper Packaging Business Unit holds the 11th Employee Sports Day.



紫华科技为员工子女准备儿童节礼物。
Zihua Technology prepares gifts for the children of its employees on Children's Day.



紫江新材料员工参与莘庄镇拔河比赛。
Employees of Zijiang New Material participate in the tug-of-war competition in Xinzhuang Town.



紫丹印务组织开展骑行活动。
Zidan Printing organizes a cycling.



紫江国贸在绍兴会稽山开展团建活动。
Zijiang Int'l Trade organizes a team-building activity at Kuaiji Mountain in Shaoxing.



紫华科技在钟书阁开展通讯员联谊活动。
Zihua Technology carries out a networking activity for coordinators in a Zhongshug Bookstore.



贵州紫江管理团队与客户一起开展重走长征路徒步活动。
Zijiang management team in Guizhou retraces the route of Long March with customers.



纸包装事业部员工以“行走的力量”为主题开展健康快乐徒步活动。
The Paper Packaging Business Unit organizes a healthy and happy hiking themed "Power of Walking" for its employees.



纸包装事业部开展“家庭友好型工作场所(FFF)”亲子培训。
The Paper Packaging Business Unit provides parent-child training on "Family-Friendly Workplace Policies (FFF)".

守望相助送温暖 Supporting employees in need

我们在充分关注困难员工及退休员工的需求基础上，通过参与“彩虹计划”和“圆梦计划”等帮扶活动，帮助他们渡过难关。同时，我们紧密对接女性员工需求，在绽放“她”的魅力、“她”的风采中多措并举，全力营造一个公平、公正、充满活力的工作氛围。

We pay full attention to the needs of retirees and employees facing challenges, offering support through programs such as the "Rainbow Project" and the "Fueling Your Dream Plan". Additionally, we are attentive to the needs of our female employees, implementing various measures under the "Unleashing Her Charm and Charisma" initiative. In summary, we are dedicated to creating a fair, equitable, and invigorating work environment for all.

案例 Case 架起彩虹桥，圆梦赴未来

"Rainbow Project" and "Fueling Your Dream Plan" help employees in need

2023年，我们开展多种形式的公益活动进行困难员工帮扶救助行动，为有需求的员工解决当前困难。例如，四川紫日包装和容器包装事业部通过“圆梦计划”帮扶困难职工29人。容器包装事业部、紫东尼龙、上海紫泉标签通过“彩虹计划”资助困难员工5人。

In 2023, we conducted various forms of philanthropic initiatives to provide assistance and support to employees facing challenges and alleviate their immediate difficulties. For instance, the Sichuan ZIRI Packaging and the Container Packaging Business Unit assisted 29 employees in need through the "Fueling Your Dream Plan". Additionally, the Container Packaging Business Unit, Zidong Nylon, and Shanghai Ziquan Label subsidized 5 employees in need through the "Rainbow Project".



紫华科技为女性员工准备“三八”妇女节礼物。
Zihua Technology prepares gifts for female employees on Women's Day.



紫江国贸组织女性员工开展手工活动。
Zijiang Int'l Trade organizes a handicraft activity for female employees.

聚力伙伴共赢

Working with Partners for Mutual Benefits

投身行业建设

Contributing to industry development

在可持续发展的道路上，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，携手伙伴共同搭建沟通交流的平台、分享经验，共同助力包装行业繁荣。

On the road to sustainable development, we continue to explore technological change on the existing results, looking for opportunities for industrial upgrading, hand in hand with our partners to build a platform for communication and exchange, sharing of experience, and jointly help the packaging industry to prosper.

我们作为推动行业可持续发展的重要支持者和参与者，不仅为《双向拉伸聚乙烯(BOPE)薄膜》《食品包装用多层共挤膜、袋》和《包装用塑料复合膜、袋》等国家标准的制定建言献策，还积极参与“包装创新推动行业高质量发展”座谈会等活动，共探新时代下行业的高质量发展新路径。

As a key advocate and contributor to advancing the sustainable development of the industry, we not only offer recommendations for the establishment of national standards such as the *Biaxially Oriented Polyethylene (BOPE) Film*, the *Multi-layer Co-extrusion Film and Pouches for Food Packaging* and the *Plastic Laminated Films & Pouches for Packaging*, but also actively participate in activities such as the seminar titled "Promoting High-Quality Development of the Packaging Industry through Innovation". Through these collaborative efforts, we aim to collectively chart a new course for the industry's high-quality development in the modern era.



纸包装事业部参加IPIF国际包装创新大会分论坛——“美团青山计划《餐饮外卖绿色包装解决方案》研讨会”。

The Paper Packaging Business Unit participates in the IPIF's sub-forum, the seminar titled "Green Packaging Solutions for Takeaway of Meituan's Blue Mountain Project".

携手客户共赢

Joining hands with customers for mutual benefits

关键绩效 Key performance

紫江企业下属企业通过可口可乐、百事可乐、星巴克、麦当劳、乐高法拉利(迪士尼)等客户的企业社会责任审核

30余次

The subsidiaries of Zijiang Enterprise have been approved by companies such as Coca-Cola, Pepsi, Starbucks, McDonald's, and Lego Ferrari (Lego Disney) through corporate social responsibility (CSR) audits more than 30 times.

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，着力提升社会责任管理水平，持续为客户提供卓越的产品和优质的服务，致力于携手客户以多元合作、技术讨论、经验交流等方式，共创高效、可持续发展“朋友圈”。

Upholding the concept of "creating value for customers, building competitive advantages for ourselves, and contributing to the industry", we focus on improving our corporate social responsibility (CSR) management to continuously provide customers with high-quality products and services. We are also committed to collaborating with customers through various approaches, such as diversified cooperation, tech talks and experience exchanges to jointly create an efficient and sustainable "circle of friends".



紫江企业荣获中国达能饮料“二十年合作纪念奖”。

Zijiang Enterprise won the "Commemorative Award for 20-Year Cooperation" from Danone China.



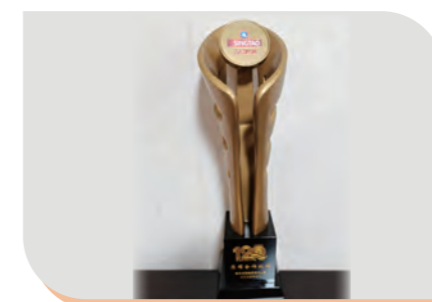
紫江企业荣获可口可乐CBPC-20年长期合作、优质服务暨可持续发展奖。

Zijiang Enterprise won the "20th CBPC Long-term Partnership, Excellent Service and Sustainable Development Award" from Coca-Cola.



2023年百威亚太VSA VPO&技术论坛在瓶盖标签事业部举办，上海紫泉包装成为“百威供应商战略联盟卓越项目”的四家企业之一。

The 2023 Budweiser APAC VPO & Tech Forum for VSA is held at the Crown Cap & Label Business Unit. Shanghai Ziquan Packaging becomes one of the four companies getting the "SSA Excellence Project" certification.



上海紫泉包装作为唯一受邀皇冠盖企业，在青岛啤酒成立120周年纪念大会上被授予“荣耀合作伙伴”称号。

Shanghai Ziquan Packaging, as the only invited crown cap company, is awarded the title of "Honorary Partner" at the 120th anniversary of Tsingtao Brewery.



奖项荣誉 Awards & Honors



容器包装事业部 Container Packaging Business Unit

- 紫江企业荣获可口可乐大中华区社会责任最佳伙伴奖
- 沈阳紫江包装荣获中粮可口可乐最佳质量奖、元气森林年度服务之星奖
- 石家庄紫江包装荣获中粮可口可乐年度战略合作伙伴奖
- 北京紫江荣获北京百事可乐优秀合作伙伴奖
- 特种瓶业莘庄分公司荣获2023年度蜂花产品质量基金会新合作伙伴奖
- Zijiang Enterprise won the Best Partner Award for CSR from Coca-Cola China.
- Shenyang Zijiang Packaging won the Best Quality Award from COFCO Coca-Cola and the Service Star of the Year from Chi Forest.
- Shijiazhuang Zijiang Packaging won the Strategic Partner Award of the Year from COFCO Coca-Cola.
- Beijing Zijiang won the Excellent Partner Award from Beijing Pepsi.
- Xinzhuang Branch of Shanghai Zijiang Plastic Bottle won the 2023 New Partner Award from the Bee & Flower Product Quality Foundation.



饮料OEM事业部 Beverage OEM Business Unit

- 南京紫乐饮料荣获达能中国卓越质量金奖
- 宜昌紫泉饮料荣获深圳福山最佳质量奖
- Nanjing Zile Beverage won the Gold Award for Quality Excellence from Danone China.
- Yichang Ziquan Beverage won the Best Quality Award from FOXON.



瓶盖标签事业部 Crown Cap & Label Business Unit

- 上海紫泉标签荣获可口可乐社会责任最佳伙伴奖
- 上海紫泉标签荣获埃克森美孚优秀合作伙伴
- 上海紫泉标签荣获华润雪花啤酒五星供应商
- 上海紫泉标签荣获百威亚太战略供应商卓越供应商奖
- Shanghai Ziquan Label won the Best Partner Award for Social Responsibility from Coca-Cola.
- Shanghai Ziquan Label won the Outstanding Partner Award from ExxonMobil.
- Shanghai Ziquan Label became the five-star supplier of China Resources Snow Breweries.
- Shanghai Ziquan Label won the Budweiser APAC Excellent SSA Supplier Award.



纸包装事业部 Paper Packaging Business Unit

- 紫丹印务荣获物年度最佳响应奖
- 紫丹印务荣获亿滋大中华区战略供应商
- 紫丹印务荣获麦当劳精诚合作奖、质量奖
- Zidan Printing won the Best Response Award of the Year from POIZON.
- Zidan Printing became the strategic supplier of Mondelēz Greater China.
- Zidan Printing won the Sincere Cooperation Award and the Quality Award from McDonald's.



紫江新材料 Zijiang New Material

- 荣获天津力神电池卓越质量奖
- 荣获欣旺达优秀合作伙伴奖
- 荣获厦门新能安科技“优秀供应商”称号
- Won the Excellent Quality Award from Tianjin Lishen Battery.
- Won the Excellent Partner Award from Sunwoda.
- Got the title of "Excellent Supplier" from Xiamen Ampace.

共建美好家园

Building a Better Homeland Together

关键绩效 Key Performance

紫江企业各事业部及下属企业公益
捐赠金额

417.8万元

RMB 4.178 million of charitable donations
made by the Business Units and subsidi-
aries

案例 Case 紫江企业用实际行动拓宽残疾人就业路

Zijiang Enterprise increases access to jobs for the disabled with practical action

就业是最大的民生，实现稳定就业是广大残疾人的迫切愿望，也是提高其生活质量和尊严，实现自我价值的重要途径。2023年，容器包装事业部、饮料OEM事业部等下属企业进一步扩大残疾人雇佣规模，为推动形成理解、关心、支持残疾人就业创业氛围贡献积极力量。

In matters concerning livelihood, employment stands as the primary concern. For the majority of individuals with disabilities, securing a stable job represents a vital aspiration. It serves as a significant avenue for them to enhance their quality of life, elevate their dignity, and attain self-fulfillment. In 2023, the Container Packaging Business Unit, the Beverage OEM Business Unit, and other subsidiaries prioritized the employment of more individuals with disabilities. This concerted effort aimed to cultivate an environment where individuals with disabilities are valued, supported, and provided opportunities for employment or entrepreneurship.



纸包装事业部员工参加无偿献血活动。
Employees from the Paper Packaging Business Unit participate in blood donation activities.

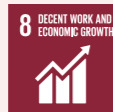
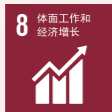
03

从严治理 奋楫笃行

我们始终铭记“清清白白做人，兢兢业业做事”，坚持稳中求进，不断完善公司治理机制，增强忧患意识，提高防控能力，恪守商业道德，加强知识产权保护，致力于夯实公司高质量发展根基，护航可持续发展行稳致远。

Forging Ahead with Strict Governance

We always bear in mind our motto, "Behave Honestly, Work Sedulously". Guided by the principle of pursuing advancement while ensuring stability, we continuously refine our governance structure. Prepared for adversity, we bolster our risk management measures. Upholding business ethics, we enhance the protection of intellectual property rights(IPRs). These endeavors are aimed at fortifying the groundwork for our high-quality advancement and ensuring the sustained and enduring development of sustainability.



我们的举措 Our initiatives

- 完善公司治理
Improving corporate governance
- 强化风险防控
Strengthening risk prevention and control
- 恪守商业道德
Adhering to business ethics
- 保护知识产权
Protecting IPRs



我们的成效 Our performance

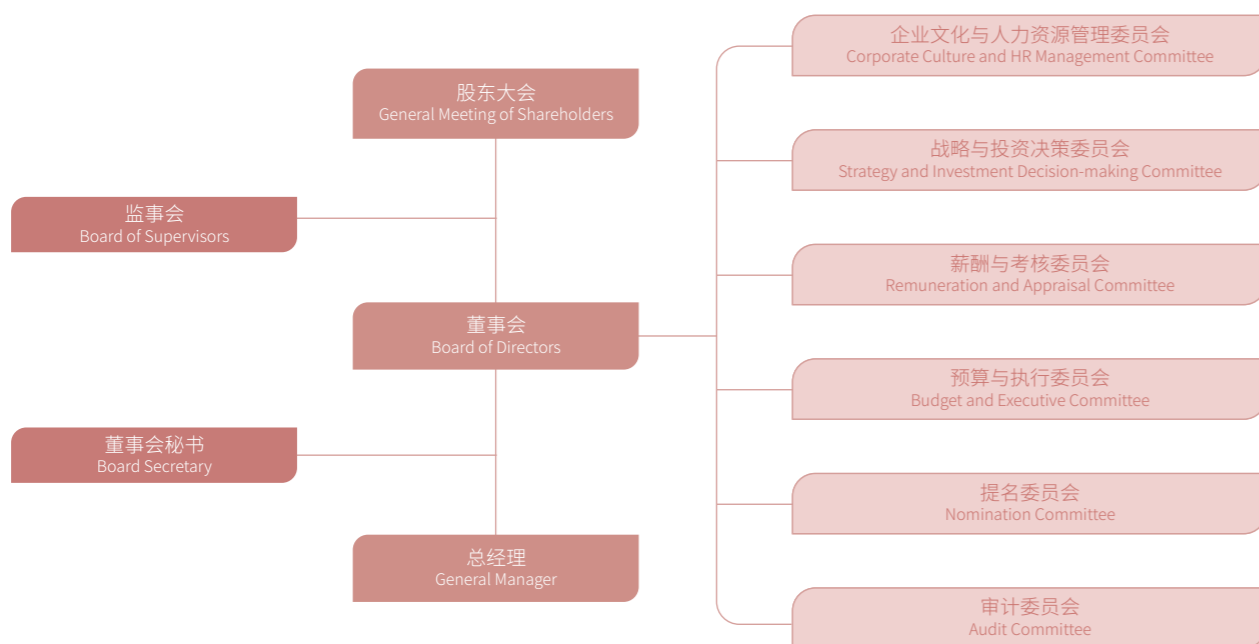
- 女性董事占比 **11.11%**
11.11 % of directors are female
- 召开董事会会议 **8次**
8 Board meetings held
- 召开监事会会议 **7次**
7 meetings of the Board of Supervisors held
- 受到过证监会或上海证券交易所
罚或警示 **0次**
0 warning received from CSRC or SSE
- 自上市以来累计分红 **46.74亿元**
(不含2023年度分红)
RMB 4.674 billion of dividend payout in total since listing (excluding dividends in 2023)

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》的相关规定进行。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，为辅助董事会工作的顺利开展，确保公司实现长期稳健的高质量发展。

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. They fully leverage their professional roles in business management, provide professional suggestions, and assist the Board, ensuring the Company achieve long-term, stable, and high-quality development.

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 the 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、高级管理人员的考核标准并进行考核，负责制定、审查董事、高级管理人员的薪酬政策与方案，并提交董事会或股东大会审议。

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

负责拟定董事、高级管理人员的选择标准和程序，对董事、高级管理人员人选及其任职资格进行遴选、审核，并形成明确的审查意见。

It is responsible for formulating selection criteria and procedures for directors and senior management, selecting and reviewing candidates and their qualifications, and forming clear review opinions.

审计委员会
Audit Committee

负责审核公司财务信息及其披露、监督及评估内外部审计工作和内部控制。

It is responsible for reviewing the Company's financial information and its disclosure, supervising and evaluating internal and external audit work and internal controls.

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 **8**次
8 Board meetings held

董事会审议议案 **31**项
31 proposals deliberated by the Board



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》及《监事会议事规则》的相关规定，严谨监督公司财务状况，确保公司资产安全无虞。同时，我们认真履行职责，对公司董事会及管理层的决策实施及制度执行进行合法性审查，并在重大事项上提出独立见解，切实维护股东利益。

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 and protect our assets. At the same time, we fulfill our responsibilities and conduct a legality review of the decision-making and institutional implementation of the Board of directors and the management. We also propose independent opinions on major matters to safeguard the interests of shareholders.

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，进一步健全投资者交流的平台，提高投资者对企业的认知度、认同度。同时，为保证股东大会的合法有效，我们邀请第三方的律师出席会议，对股东大会的召开程序、审议事项、出席人身份等进行确认和见证，并出具法律意见书。

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*, 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. At the same time, to ensure the legality and validity of the General Meeting of Shareholders, we invite third-party lawyers to attend the meeting, confirm and witness the convening procedures, matters for deliberation, identity of attendees, and issue legal opinion.

关键绩效 Key Performance

召开股东大会

1次

1 shareholder meeting held

自上市以来累计分红(不含2023年度分红)

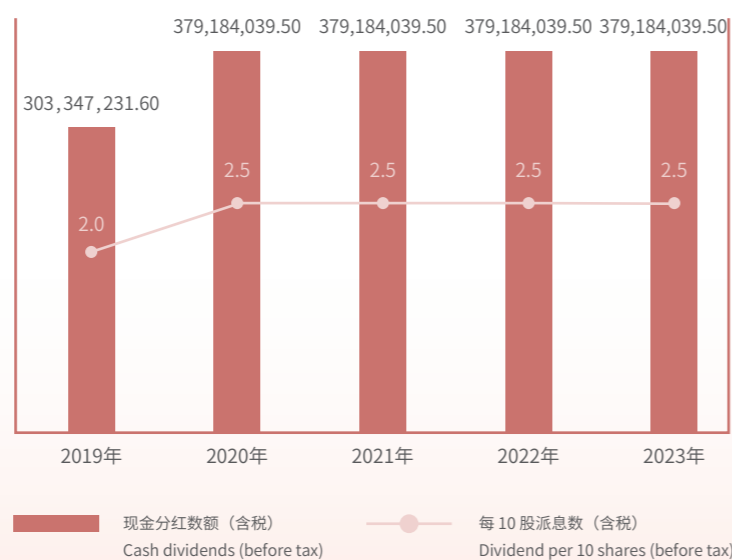
46.74亿元

RMB 4.674 billion of dividend payout in total since listing (excluding dividends in 2023)

自上市以来累计分红为募集资金总额

2.14倍

Since it is listed, the cumulative dividend has been 2.14 times the total amount of funds raised



2019-2023年紫江企业利润分配情况(单位:元)
Zijiang Enterprise's profit distribution from 2019 to 2023 (Unit: RMB)

强化风险防控

Strengthening Risk Prevention and Control

我们严格依照法律法规及《企业内部控制基本规范》《企业内部控制应用指引》要求，坚持以《上海紫江企业集团股份有限公司内控手册》为主线，划分重点内控循环，确保各企业一方面能够对照梳理业务流程，检核补充制度规定和内控管理要求，并从实际业务操作角度检视规范的可执行性，识别个性化业务及风险点，强化实施控制。另一方面，各企业能够通过自我检查作业规范性和执行力情况，审计部复核抽查，及时发现问题、分析检讨、有效落实改善，保障公司内控运行机制有效，风险可控。同时，公司内控领导小组通过开展内部控制评价工作，评价内部管控体系的完整性、合理性和有效性，及预期目标的达成情况，确保公司战略的稳步实施。

In strict accordance with the laws and regulations such as the *Basic Standard for Corporate Internal Control* and the *Guidelines for Corporate Internal Control*, and with the *Shanghai Zijiang Enterprise Internal Control Manual* at the core, we have established internal controls over primary cycles to achieve the following objectives. On one hand, by streamlining workflows and reviewing policies, rules, and internal control requirements, both the Company and its subsidiaries can enhance operational feasibility, identify personalized business operations, and mitigate risks to facilitate better control measures. On the other hand, through self-assessment of operational standardization and internal control execution, coupled with reviews and spot checks conducted by the Auditing Department, any issues identified can be analyzed promptly, enabling effective corrective actions to be taken in a timely manner to ensure the functioning of the internal control mechanism and risk mitigation. Simultaneously, the Internal Control Task Force evaluates the integrity, rationality, and effectiveness of the internal control system, as well as the achievement of the expected goals, ensuring the consistent implementation of the Company's strategies.

恪守商业道德

Adhering to Business Ethics

我们始终坚守诚信经营与廉洁自律的商业道德，严格遵守并坚决维护反贿赂、反腐败及反贪污等各项规章制度，坚持以高水平的依法治企与合规管理能力，为企业的稳健与高质量发展奠定坚实基础。

We remain steadfast in upholding the principles of business ethics, acting with integrity and self-discipline. We adhere rigorously to and steadfastly uphold regulations pertaining to anti-bribery and anti-corruption, ensuring robust adherence to law-based corporate governance and compliance management practices. Through these efforts, we establish a sturdy foundation for the Company's sound and 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，明确规定公司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，确保知识产权得到充分且有效的保护，不受任何形式的侵犯。

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*. We have made explicit stipulations regarding the protection and management of the Company's IPRs, encompassing the entire spectrum from application and authorization to maintenance. This comprehensive approach ensures robust and effective safeguarding of our IPRs against any potential infringement.

展望

2024年，适逢新中国成立75周年，紫江企业上市25周年。在紫江企业全面落实新三年战略目标的关键时期，我们将秉持“清清白白做人，兢兢业业做事”的信念，振奋“狭路相逢勇者胜”的斗志，坚持稳中求进、以进促稳、先立后破，写好“诚信篇”、下好“安全棋”、走好“低碳路”、打好“绿色牌”、争当“实干家”、交出“富民卷”，为人民群众追求更美好的生活而不懈努力，为推动中国式现代化建设作出新的更大贡献。

写好“诚信篇”

我们将毫不动摇地坚守“清清白白做人，兢兢业业做事”的原则，严格遵循商业道德规范，努力构建完善、廉洁的管理体系，打造透明、全面的沟通平台，确保公司运营的规范性，切实维护投资者权益，夯实公司可持续发展根基。

下好“安全棋”

我们将始终坚守“零容忍”的安全管理理念，全面加强“企业安全标准化管理体系”建设，严密织牢安全网络，严格落实安全责任，着力提升安全管理的智能化水平，坚决遏制和减少安全生产事故的发生，切实保障员工的生命安全和身体健康。

走好“低碳路”

我们将树牢“绿水青山就是金山银山”理念，把节约能源资源放在首位，推动企业循环式生产，推进减污降碳协同增效，助力实现经济社会发展低碳化，让天更蓝、地更绿、水更清。

打好“绿色牌”

我们将坚定不移地以技术创新为引擎，以绿色理念为引领，准确把握数字时代的核心特征，积极投身于新兴产业、创新模式和多样化业态的探索与实践，不断以前瞻性的、行业典范的绿色技术与产品，推动经济增长新动力，降低对环境的影响，引领绿色生活新潮流。

争当“实干家”

我们将紧紧牵住数字时代的发展脉络，立足高效的工作理念，以人机协同效率的提升为重心，持续提升全体员工的工作技能和效率意识，并引入先进的科技手段，优化工作流程，全力打造一个“人人讲效能，事事高效率”的崭新局面。

交出“富民卷”

我们将秉持开放包容、合作共赢的态度，汇聚员工、伙伴和社区等利益相关方的智慧与热情，携手打造一个充满活力、机遇与创新的平台，打破疆界、优势互补、资源共享、广泛合作，不断开拓可持续发展的新领域和新机遇，共同创造一个更加美好、繁荣和可持续的未来。

Outlook

The year 2024 marks the 75th anniversary of the People's Republic of China and the 25th anniversary of Zijiang Enterprise's listing. During this pivotal period of fully implementing our new three-year strategic objectives, we reaffirm our commitment to the core values of "Behave Honestly, Work Sedulously," while embracing a spirit of continuous learning amidst evolving times. We will adhere to the principles of progressing while ensuring stability, promoting stability through progress, and embracing innovation while respecting tradition. Specifically, we will prioritize integrity and safety, pursue low-carbon development, advocate for green practices, adopt a proactive approach, and strive for prosperity for all. Our unwavering dedication will be aimed at supporting people in their quest for a better life and making significant contributions to the advancement of Chinese modernization.

Upholding integrity

We will unwaveringly uphold the principle of "Behave Honestly, Work Sedulously," strictly adhering to business ethics standards, and striving to establish a robust and ethical management system. Additionally, we will endeavor to create a transparent and comprehensive communication platform to ensure the Company's operational compliance, safeguard investor rights, and strengthen the groundwork for sustainable development.

Ensuring safety

We will maintain a steadfast "zero tolerance" approach to safety management, significantly reinforce the "enterprise safety standardization management system," establish a resilient safety network, and rigorously enforce safety responsibilities. Furthermore, we will prioritize the integration of intelligent technology into safety management practices, striving to minimize work-related accidents and effectively safeguard the lives and well-being of our employees.

Pursuing low-carbon development

We will continue to uphold the belief that lucid waters and lush mountains are invaluable assets, prioritizing energy and resource conservation, and advocating for circular production within Zijiang Enterprise. Concurrently, we will coordinate efforts to minimize pollution and carbon emissions, thereby contributing to the advancement of low-carbon economic and social development. Our aim is to create bluer skies, greener earth, and clearer waters for all.

Promoting green practices

Empowered by technological innovation and guided by green principles, we will endeavor to accurately grasp the core characteristics of the digital age. This entails actively exploring and implementing emerging industries, innovative models, and diversified formats. Through the development and provision of forward-thinking, industry-leading green technologies and products, we aim to drive sustained economic growth, minimize our environmental impact, and spearhead the new trend of green living.

Strengthening our proactive approach

We will remain attuned to the evolving trends of the digital age and prioritize enhancing the skills and efficiency awareness of all employees. This will be achieved through the promotion of efficient work concepts and the cultivation of human-machine collaborative efficiency. Additionally, we will introduce advanced technological methods to streamline work processes and cultivate an environment where efficiency is emphasized by all, ensuring that tasks are performed with maximum effectiveness.

Fostering prosperity for all

We will continue to uphold an open, inclusive, and cooperative mindset, harnessing the wisdom and enthusiasm of stakeholders such as employees, partners, and communities. Together, we will build a dynamic and innovative platform abundant with opportunities. We are committed to breaking down barriers, leveraging our complementary strengths, and promoting resource sharing and extensive collaboration. By exploring new fields and opportunities for sustainable development, we will collaboratively shape a brighter, more prosperous, and sustainable future with all stakeholders.

关键绩效

| 指标 | 单位 | 2021年 | 2022年 | 2023年 |
|---------------------|------|----------------|----------------|----------------|
| 经济 | | | | |
| 总资产 | 亿元 | 121.60 | 120.77 | 136.94 |
| 营业收入 | 亿元 | 95.29 | 96.08 | 91.16 |
| 利润总额 | 亿元 | 7.61 | 7.88 | 7.40 |
| 每股社会贡献价值 | 元 | 2.00 | 1.92 | 2.07 |
| 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 | 13 | 4 | 8 |
| 重点控排企业废气排放量 | 立方米 | 66.08 | 79.21 | 45.20 |
| 重点控排企业污水总排放量 | 立方米 | 21,402.00 | 102,621.00 | 339,124.00 |
| 用电总量 | 万度 | 54,208.47 | 51,676.70 | 56,798.18 |
| 外购电力总量 | 万度 | 53,024.59 | 50,376.70 | 54,812.58 |
| 清洁能源发电量 | 万度 | 1,183.88 | 1,033.00 | 1,985.60 |
| 天然气使用量 | 万立方米 | 556.4 | 577.4 | 803.8 |
| 外购热力总量 | 万吨 | 10.19 | 8.57 | 8.83 |
| 综合能源消耗总量 | 吨标准煤 | 163,418.16 | 159,255.84 | 141,497.74 |
| 每万元产值电耗 | 度/万元 | 619.91 | 570.31 | 596.57 |
| 非化石能源比重 | % | 3.66 | 4.37 | 23.35 |
| 危险废物产生总量 | 吨 | 1,112.50 | 1,087.90 | 1,273.74 |
| 危险废物处置量 | 吨 | 1,112.50 | 1,087.90 | 1,273.74 |
| 无害废弃物产生密度 | 吨/万元 | 0.0329 | 0.0410 | 0.0405 |
| 节能改造投入费用 | 万元 | 1,659.21 | 2,422.80 | 1,975.53 |
| 社会 | | | | |
| 员工总数 | 人 | 6,899 | 6,838 | 6,936 |
| 残疾员工人数 | 人 | 19 | 24 | 26 |
| 董事会中女性成员 | % | 11 | 11 | 11 |
| 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 | 2021 | 2022 | 2023 |
|--|---------------------------------|----------------|----------------|----------------|
| Economic | | | | |
| Total assets | RMB billion | 12.160 | 12.077 | 13.694 |
| Revenue | RMB billion | 9.529 | 9.608 | 9.116 |
| Total profit | RMB million | 761 | 788 | 740 |
| Social contribution value per share | RMB | 2.00 | 1.92 | 2.07 |
| 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 | - | 13 | 4 | 8 |
| Total waste gas emissions by key subsidiaries under waste gas treatment control | m ³ | 66.08 | 79.21 | 45.20 |
| Total wastewater discharged by key subsidiaries under wastewater treatment control | m ³ | 21,402.00 | 102,621.00 | 339,124.00 |
| Total electricity consumption | MWh | 542,084.70 | 516,767.00 | 567,981.80 |
| Total purchased electricity | MWh | 530,245.90 | 503,767.00 | 548,125.80 |
| Electricity generated from clean energy | MWh | 11,838.80 | 10,330.00 | 19,856.00 |
| Natural gas consumption | 10,000 m ³ | 556.4 | 577.4 | 803.8 |
| Total purchased heat | 10,000 tons | 10.19 | 8.57 | 8.83 |
| Total energy consumption | Ton of standard coal equivalent | 163,418.16 | 159,255.84 | 141,497.74 |
| Electricity consumption per RMB 10,000 of output value | kWh/RMB 10,000 | 619.91 | 570.31 | 596.57 |
| Proportion of non-fossil energy | % | 3.66 | 4.37 | 23.35 |
| Total hazardous waste generated | ton | 1,112.50 | 1,087.90 | 1,273.74 |
| Disposal amount of hazardous waste | ton | 1,112.50 | 1,087.90 | 1,273.74 |
| Intensity of non-hazardous waste generated | ton/RMB 10,000 | 0.0329 | 0.0410 | 0.0405 |
| Cost of energy-saving transformation | RMB 10,000 | 1,659.21 | 2,422.80 | 1,975.53 |
| Social | | | | |
| Total employees | - | 6,899 | 6,838 | 6,936 |
| Number of employees with disabilities | - | 19 | 24 | 26 |
| Female member in the Board of Directors | % | 11 | 11 | 11 |
| 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2023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 2023 ESG Report of Shanghai Zijiang Enterprise Group Co., Ltd. To leverage the report for facilitating our communication with all stakeholders and 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's CSR fulfillment and this report?
