

贵州茅台酒股份有限公司 包材轻量化、绿色化发展规划

Kweichow Moutai Co., Ltd. Strategy for Lightweight and Green Packaging Development

贵州茅台酒股份有限公司（下称“公司”）致力于构建可持续包材供应链，聚焦绿色低碳和创造可持续价值，积极开展包材减量化、绿色化工作，打造“负责任”的包材供应链，引导供应商开展 ESG 管理相关工作，切实增强供应商绿色、低碳发展理念，促进国家和企业“双碳”行动走深、走实。

Kweichow Moutai Co., Ltd. (hereinafter referred to as the “Company”) is committed to establishing a sustainable packaging supply chain, emphasizing green and low-carbon initiatives to create lasting value. We focus on reducing packaging waste, promoting environmentally friendly practices, and developing a responsible supply chain. We guide our suppliers in ESG management and foster their commitment to green and low-carbon development. This approach ensures that we deeply and effectively implement both national and corporate dual-carbon goals.

公司明确所有包装材料以食品安全、无污染、可降解、可回收再利用为标准，遵循绿色设计理念和“3R1D”原则（即减

量 Reduce、再利用 Reuse、再循环 Recycle、降解腐化 Degradable)，充分考虑对资源和环境的影响，努力使制造过程中对环境的总体负影响降到最小。

Kweichow Moutai mandates that all packaging materials meet standards for food safety, non-pollution, degradability, and recyclability. We adhere to green design principles and the “3R1D” principle (Reduce, Reuse, Recycle, and Degradable), considering their impact on resources and the environment. Our goal is to minimize the overall negative environmental impact of our manufacturing processes.

一、工作目标

I. Objectives

到 2025，构建完善的供应商碳排放管理和协同减排体系，推动原材料生产、加工制造、包装、运输和流通企业持续碳减排，加速上下游供应链企业碳中和转型，供应链碳排放显著下降。

By 2025, we aim to establish a comprehensive supplier carbon emission management and collaborative reduction system. This initiative will drive continuous carbon reduction across raw material production, manufacturing operations, packaging, transportation, and distribution. We will accelerate the carbon neutrality transformation of both upstream and downstream supply

chain enterprises, significantly reducing overall supply chain carbon emissions.

二、主要措施

II. Measures

一是探索轻量化材料。在保证包装强度、耐用性和安全性的前提下，使用更轻量的包装材料减少包装的总体积和重量，减少资源消耗。开展酒瓶轻量化改进攻关，采用纸塑复合材料、蜂窝纸板、轻质纸张、薄膜或薄型塑料等材料来替代传统的厚重材料。

First, explore the use of lightweight materials. In our effort to ensure the strength, durability, and safety of packaging, we are committed to using lighter packaging materials to reduce overall volume and weight, thereby decreasing resource consumption. Our research and development will focus on creating lighter bottles using materials like paper-plastic composites, honeycomb cardboard, lightweight paper, thin films, and thin plastics, replacing traditional heavy materials.

二是推广使用可循环材料。推动使用可回收、可再利用的包装材料，减少废弃物的产生，减少对新资源的需求，促进资源的循环利用；探索稻草、酒糟在纸浆脱模包装中的应用；在部分塑料瓶盖、彩盒印刷、丝带可降解等方面推广生物质材料替代。

Second, promote the use of recyclable materials. We are committed to reducing waste and conserving new resources by advocating for the use of recyclable and reusable packaging materials. Our efforts include exploring the use of straw and distiller grains in pulp molding packaging and promoting the use of biomass materials as substitutes in various applications, such as biodegradable plastic bottle caps, printed color boxes, and ribbons.

三是引入标准化和模块化设计。制定统一的包装标准和模块化设计，实现包装的互换性和通用性，减少定制包装的需求，降低材料消耗和生产成本。

Third, introduce standardized and modular design. By developing uniform packaging standards and modular designs, we aim to enhance the interchangeability and versatility of our packaging. This will reduce the need for custom packaging, lower material consumption, and decrease production costs.

四是降低包装过程材料损耗。有效降低减少包装过程损耗率。围绕酒瓶、瓶材等损耗较大包装材料，抓牢关键节点。

Fourth, reduce material loss in the packaging process. We aim to effectively lower the loss rate during packaging, focusing on high-loss materials such as bottles and bottle materials.

五是加强废弃包装材料的回收利用研究。加大废纸、废塑料、废酒瓶等再生资源回收利用力度，打造闭环回收链，提高

资源重复利用率，鼓励开发废弃物高值化处理，推动废弃物高附加值利用。

Fifth, strengthen research on recycling waste packaging materials. We are intensifying our efforts to recycle waste materials such as paper, plastic, and glass bottles to create a closed-loop recycling chain. By improving the rate of resource reuse and encouraging the high-value utilization of waste, we will drive the development of high-value-added applications for recycled materials.

六是大力推广绿色物流。探索包材托盘化运输工作，持续推动包材去纸质周转箱运输工作，鼓励供应商在内部使用可循环周转箱代替一次性或不可循环的周转箱，降低资源浪费和环境污染，鼓励供应商优化运输方式，积极开展绿色物流应用研究，加快绿色清洁能源运输车辆的投入，减少运输过程碳排放。

Sixth, promote green logistics. We will explore the use of pallets for transporting packaging materials and continuously promote the use of paperless turnover boxes. We encourage suppliers to replace single-use or non-recyclable turnover boxes with reusable ones to reduce resource waste and environmental pollution. Additionally, we will work with suppliers to optimize transportation methods, research green logistics practices, deploy green and clean energy vehicles, and reduce carbon emissions

during transportation.