

# 国轩高科零碳战略

Gotion High-Tech Zero Carbon Strategy

让绿色能源服务人类

Make Green Energy

Accessible and Sustainable

# **Gotion High-Tech Zero-carbon Strategy**

## **Zero-carbon R&D**

Gotion High-Tech integrates zero-carbon research and development throughout the entire product life cycle. The company focuses on six core dimensions: extending service life, reducing parts/processes, modularization/generalization, recycling, environmental friendliness and reducing material usage. It drives the research and development innovation of low-carbon technologies and patent layout (with a total of 71 layouts and 25 authorizations), and builds an integrated model of research and development, protection and industrial application. By fully integrating resources, the company accelerates the industrialization of low-carbon technology achievements, continuously increases investment in key technology research and development such as zero-carbon and photovoltaic, gathers high-end talents, and provides strong support for green and sustainable development.

## **Zero-carbon Supply Chain**

Supply chain collaborative carbon reduction is one of the core pillars of the zero-carbon strategy. The company has incorporated the "dual carbon" goals into its supplier management and explicitly requires them to achieve an annual carbon reduction target of 5%. At the carbon management level, we focus on key main materials that account for over 95% of the carbon footprint of battery cells. Through data surveys (such as carbon emission investigations of suppliers), we prioritize promoting all main material suppliers, including cathodes, anodes, electrolytes, separators, copper foils, and aluminum foils, to complete product carbon footprint certification. Meanwhile, we empower our supply chain partners by providing carbon inventory capacity building (such as specialized training) to ensure that 100% of our main material suppliers have the ability to conduct carbon footprint certification, in order to build a transparent and low-carbon upstream supply system.

## **Zero-carbon Manufacturing**

Gotion High-Tech focuses on zero-carbon manufacturing, driven by technological innovation, and comprehensively promotes the green transformation of the entire industrial chain. The company continuously enhances production efficiency and reduces greenhouse gas emissions in the production process through technological transformation, energy-saving upgrades of equipment and process optimization. During the promotion of zero-carbon manufacturing, the company's headquarters takes the lead in optimizing core systems such as power distribution, air compression, refrigeration and nitrogen generation, and establishes a quantitative energy efficiency system. All subsidiaries are working together to promote management optimization, energy-saving upgrades of equipment, application of photovoltaic energy storage and technological innovation. Among them, Xinzhan No.1 Factory successfully obtained the PAS 2060 Enterprise carbon neutrality certification, and Jinzhai Gotion was awarded the zero-carbon factory certification. This marks a substantive breakthrough in the company's zero-carbon manufacturing process. These two factories have achieved carbon emission monitoring and proactive carbon reduction throughout the entire manufacturing life cycle through systematic measures such as energy structure transformation, application of intelligent systems, and innovation in advanced processes.

Energy Consumption Target Management

Year	2022	2023	2024	2025 (planned)
Comprehensive Energy Consumption [kWh (Energy consumption) /kWh (output)]	39.5	35.2	29.5	24

## Zero-carbon Operation

Gotion High-Tech continuously deepens its green energy strategic layout in the field of zero-carbon operation, accelerating the transformation of its energy structure through the dual drive of self-produced green electricity and purchased green electricity. The company is accelerating the globalization of photovoltaic infrastructure and plans to build 11 new photovoltaic facilities from 2025 to 2026, focusing on expanding its self-sufficiency in renewable energy (generating 50,700 MWh of self-generated

electricity in 24 years and reducing emissions by 30,400 tons). Meanwhile, through large-scale annual green power procurement, the proportion of renewable energy usage has been significantly increased (with a procurement volume of 376,700 MWh in 24 years, reducing emissions by 225,900 tons). The dual-track coordination effectively reduces the indirect carbon emissions from power consumption, providing core support for the realization of the zero-carbon strategic goal.

Five-year Target for Green Energy Usage

Year	2024	2025	2026	2027	2028
Target	21%	25%	30%	33%	35%