

BOE Technology Group Co., Ltd., Green Development White Paper



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Open Next Earth



Foreword

About This Report

Reporting Objectives

This report is BOE Technology Group Co., Ltd.'s first Green Development White Paper, providing a systematic overview of BOE's green development management system and key initiatives of BOE's green development agenda. As a strategic document outlining BOE's practices and achievements in green development, the report demonstrates BOE's responsibility and commitment in the field of green development to stakeholders.

Reporting Scope

This report, covering regions where BOE operates, presents the sustainable development philosophy, strategy and practices of BOE and its subsidiaries as well as their business operations during the reporting period. Unless otherwise specified, the scope of this report is consistent with that of the annual report.

Reporting Period

This report covers the period from January 1, 2021 to December 31, 2025. Part of the content is beyond the above time range.

Designations

BOE Technology Group Co., Ltd. is also referred to as "BOE", "the Group" or "we" in this report.

Report Availability

The electronic version of this report can be accessed online or downloaded from the official website of BOE, www.boe.com. You are welcome to call or email us if you have any questions or advice about the report.

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Message from the Chairman



Today, green and low-carbon transformation is not only a global consensus but also a cornerstone of future corporate competitiveness. As a global leader in the display industry, BOE has consistently integrated sustainable development into its corporate DNA. 2026 marks the inaugural year of the national 15th Five-Year Plan. With a two-wheel drive strategy of "Technology + Ecosystem," we officially launch our green development strategy. This declares our commitment to implementing the national agenda for comprehensive green transition and achieving the "Dual Carbon" goals. It also reaffirms BOE's commitment to foster a new paradigm where humanity and nature coexist in harmony.

We recognize that green development represents a profound transformation, critical to both our future and our very survival.

In an era marked by tightening resource constraints and escalating environmental challenges, BOE has established "ecological conservation" as a fundamental principle. Through three key actions: strict control at pollution sources, unlocking the value of waste, and maintaining ecological balance, we are committed to being dedicated practitioners of environmental stewardship. Simultaneously, we are advancing a resource efficiency transformation across our operations - enhancing energy utilisation through technological innovation and achieving lifecycle water conservation through systematic management. We are committed to ensuring that every unit of electricity and every drop of water delivers green value.

We are convinced that a green strategy is central to unlocking new quality productivity for enterprises.

BOE incorporates climate action into its top-level strategic planning, accelerating the development and application of low-carbon technologies and fostering deeper integration between the display industry and green energy systems. In value creation, we pursue a dual-track approach of "green products" and "green services": by providing customers with solutions that offer superior environmental performance through low-power display technologies, application of renewable materials, and carbon footprint management throughout the product lifecycle; enabling green transformation across industries through digital services, transforming BOE's technologies into vehicles for delivering green value.

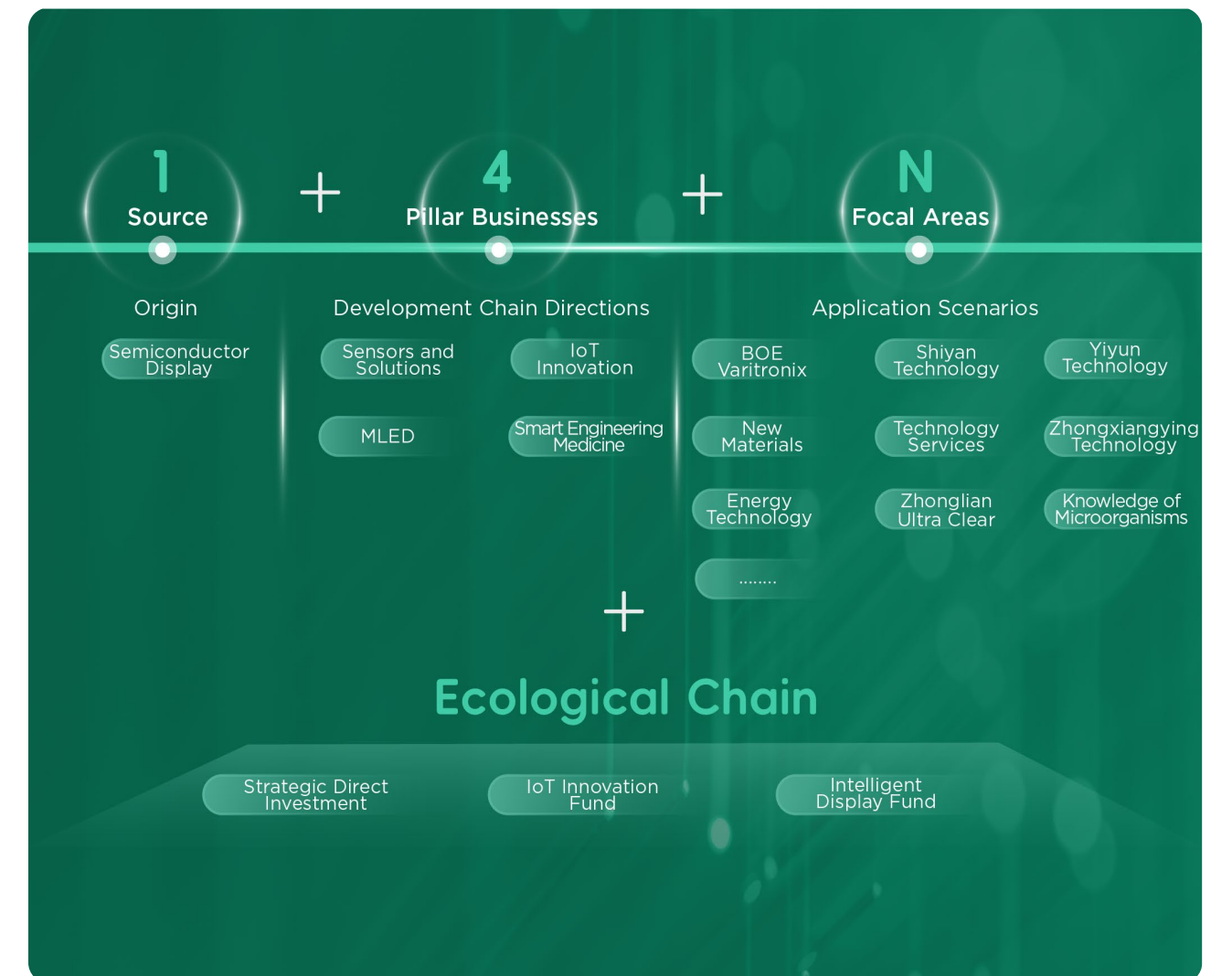
We are guided by the principle: "If you want to go fast, go alone. If you want to go far, go together."

Green transformation cannot be achieved by a single company alone. BOE implements the "Grand Cycle" concept across value chain collaboration—from green supply chain management and collaborative development of low-carbon standards to joint R&D on green technologies and green finance initiatives. We are committed to collaborating with upstream and downstream partners, research institutions, and international organizations to foster an open and symbiotic industrial ecosystem. Only by breaking down barriers and can we collectively make the transition from "green manufacturing" to "manufacturing green."

The future is already here; change remains the only constant. With this strategy as our foundation, BOE will use technological innovation as our pen and responsibility as our ink to write a new chapter in the harmonious coexistence between humanity and nature. Together, let us illuminate the path toward sustainable development with the light of green progress.

About BOE

BOE Technology Group Co., Ltd., founded in April 1993, is a leading IoT innovation group providing intelligent interface products and services for information interaction and human health. Our "1+4+N+eco-chain" business architecture is centered on Display and features the integrated development of four business groups, namely, IoT Innovation, Sensors and Solutions, MLED and Smart Engineering Medicine. BOE has manufacturing bases in many parts of China including Beijing, Hefei, Chengdu, Chongqing, Fuzhou, Mianyang, Wuhan, Kunming, Suzhou, Ordos, Qingdao and Nanjing, as well as subsidiaries in nearly 20 countries and regions such as the United States, Germany, Britain, Japan, South Korea, Singapore, India, Brazil, and the United Arab Emirates. The service network covers many regions of the world such as Europe, Americas, Asia, and Africa.



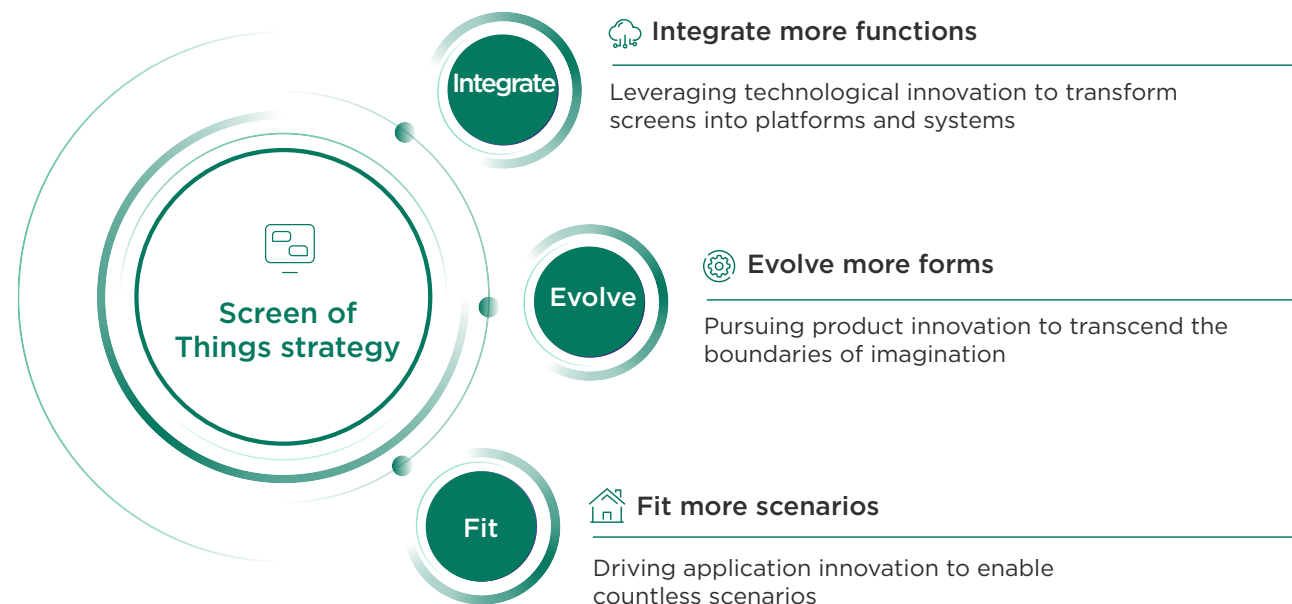
● "1+4+N+eco-chain" Business Development Framework

Development Strategy

Based on its long-term accumulation in the display and IoT fields, BOE aligns with the industrial trends of digitalization, intelligence, and green development, and has proposed the "Screen-based IoT" strategy for high-quality development, driving the company's continuous transformation from a display device provider to an IoT innovation enterprise. Under the guidance of this strategy, BOE adheres to display technology as its core foundation and has built a "1+4+N+ Ecosystem Chain" business development architecture, forming a development pattern featuring multi-business synergy and multi-scenario integration.

At the same time, drawing on industry development dynamics and its own capability accumulation, the company has introduced the "Nth Curve" strategic elevation theory. Focusing on evolving market demands and value chain extension, BOE continuously explores new business growth drivers and value creation opportunities, steadily cultivating new growth curves and development momentum.

Looking ahead, BOE will take the "Nth Curve" as its theoretical guide, the "Screen-based IoT" as its development strategy, and the "1+4+N+ Ecosystem Chain" as its business architecture. It will continue to build an integrated and symbiotic industrial ecosystem with coordinated development, steadily enhance its long-term competitiveness and sustainable development capabilities, and help achieve enduring business success.



Business Scope

Display device and IoT Innovation



As a leading company in the global display industry, through years of leapfrog development, the Company ranks among the top global suppliers of LCD panels in terms of shipment volume across five major application areas—smartphones, tablets, laptops, monitors, and televisions—and continues to drive industry development. According to global market research agencies Omdia and Sigmaintell, by the end of 2025, BOE remained the world's leading supplier in terms of both total display shipments and LCD panel shipments across these five major application areas.

Based on our industry-leading intelligent manufacturing capabilities and the continuously evolving IoT technology, the IoT innovation business has created an integrated industrial platform of "display devices-smart devices-system solutions." Through an innovative ODM model, BOE provides customers with competitive smart terminal products across a wide range of fields such as TVs, monitors, laptops, tablets, electronic shelf labels (ESL), IoT, and 3D display. Leveraging AI and big data technologies, BOE provides IoT solutions with a focus on products and services integrating software and hardware.

IoT Innovation



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Sensors and Solutions



As an exploration and incubation platform for the Company's new business directions in the field of advanced electronics, the Sensors and Solutions business has established business segments including Smart Window Solutions, Industrial Sensors, Glass-Based Packaging Substrate, Flat Panel X-ray Detector (FPXD), Intelligent Sensing, and Micro/Nano Innovation. Among them, Smart Window Solutions integrate optoelectronic sensing technology to provide smart dimming solutions for transportation and architecture; Industrial Sensors are widely used in 3C electronics, logistics, transportation, new energy, medicine and food industries, as well as automotive vehicle and components industries; Glass-Based Packaging Substrate leverages experience in glass-based processing and large-scale integrated intelligent manufacturing to deploy packaging substrate pilot lines and seize opportunities in advanced packaging technologies; FPXD focuses on medical and industrial inspection needs, independently developing key technologies such as high-definition and CSI to provide backplane components for flat panel detectors (FPD), achieving significant results in overseas market expansion; Intelligent Sensing integrates various types of sensors and fuses algorithm models to mine valuable data, building core hardware and software capabilities for scenario-based applications; Micro-nano Innovation focuses on MEMS sub-product lines such as pressure and acoustics, which are applied in consumption and automotive scenarios.

MLED



The MLED business is committed to innovation in MLED display technology, delivering ultimate visual experiences through its top-tier MLED display products and solutions, setting a technical benchmark and empowering a wide range of industries. Relying on the three core technologies of "Exquisite Optics, Superb Thermal Management, and Simplified Structure," the business has achieved a comprehensive global layout in fields such as indoor, outdoor, innovative applications, and consumer electronics, continuously improving product competitiveness. In terms of direct display, the business launched COG P0.3 and P0.9 glass-based ultra-thin HDR MLED products, MPD P0.6 micro-pitch double-sided screen products, the full range of COB P0.9-1.5 products, and various SMD series products, achieving significant breakthroughs in the field of professional film and television display. Regarding backlighting, the business collaborated with key industry customers to launch high-end display products such as Mini-LED, curved, and irregular-shaped displays, covering multiple market segments including laptops, monitors, tablets, automotive, and commercial displays.

Technology Services



As one of BOE's "N" application businesses, Technology Services leverages industrial resources and innovative business models to accelerate the implementation of the Group's Innovation Center's "Five Major Platforms" and "Six Major Products." By 2025, it established a "1+3" business framework centered on park operations, integrating office services, industrial services, and cloud services. Currently, the technology services business spans 10 cities, manages over 40 projects, and oversees more than 3 million m2 of space. Among these, industrial park operations cover over 1.4 million m2, serving a cumulative total of over 1,000 clients.

New Materials



The new material business primarily engages in the research, development, and manufacturing of perovskite photovoltaic modules and innovative products. Leveraging BOE's exceptional large-size thin-film production capabilities, it provides high-quality integrated solutions for innovative products, BIPV, distributed photovoltaics, and ground-mounted power stations. Leveraging its glass substrate manufacturing expertise homed in the display business, combined with extensive experience in large-scale integrated smart manufacturing, BOE has effectively accelerated the industrialization of perovskite solar cells. Building upon its accumulated capabilities, BOE's new material business has successfully established three major R&D technology platforms: glove boxes, pilot lines, and pilot-scale production lines. The group aims to deliver premium integrated solutions across diverse applications including innovative consumer electronics, building-integrated photovoltaics, automotive solar, and distributed/centralized power stations, while steadfastly advancing the industrialization of perovskite technology.

Energy Technology



Energy Technology focuses on zero-carbon integrated energy services. Leveraging its proprietary smart energy management system as an enabling platform, it addresses all links in the "power source, power grid, energy loading, energy storage, carbon" chain. Through a zero-carbon implementation pathway encompassing "source decarbonization, in-process carbon reduction, negative carbon at the end, and smart carbon management", it delivers comprehensive energy utilization services and zero-carbon solutions, providing clients with one-stop integrated zero-carbon energy solutions.

Zhongxiangying Technology



BOE Zhongxiangying Technology specializes in providing industrial enterprise management consulting, industrial internet solutions, and platform services. Drawing on BOE's over 30 years of industry expertise, BOE Zhongxiangying Technology develops integrated software and hardware smart factory solutions, providing end-to-end support for enterprises' smart manufacturing transformation through industrial software, smart facilities management, and industrial AI products and services, delivering sustained value to customers.

Advancing Green Development and Fulfilling Social Responsibility

An enterprise is like a boat, and responsibility is like the ocean. Only when the ocean's depth and virtue support the boat can it sail far and endure through time. Since its establishment in 1993, BOE has navigated numerous challenges, including technological disruptions and market difficulties, repeatedly reinventing itself through transformation. BOE's forward-looking strategic vision enabled it to proactively enter the emerging display industry, ultimately becoming a global leader in the display field. This achievement stems from our steadfast commitment to social responsibility—a commitment that is inherent, deeply embedded, and woven into the very fabric of BOE's corporate operations. We clearly understand our responsibilities to all stakeholders and to society, earning their trust and support through integrity and accountability. We have embedded the commitment to being an exemplary corporate citizen at the heart of our core values and corporate culture, proactively fulfilling social responsibilities while advancing our own growth, and pursuing harmonious development between the enterprise and society.

BOE's concept of social responsibility is closely aligned with contemporary principles of green, low-carbon, and sustainable development. While contributing China's strength to the global display industry, BOE demonstrates its commitment to environmental protection, green industries, and low-carbon value chains, co-creating shared value and fulfilling its social responsibilities. For BOE, corporate social responsibility and green value creation are not mere slogans, but a mission of the times that translates from philosophy into action.

Since 2010, BOE has published a social responsibility report annually, disclosing its progress and achievements in social responsibility to the public with transparency. Starting in 2022, BOE upgraded its social responsibility report to a sustainability report, signaling the evolution of BOE's social responsibility strategy with heightened focus on green and low-carbon development, thereby enriching the scope and depth of its social responsibility.



Environmental Responsibility

As a leading enterprise in China's display industry, BOE has been committed from its founding to being an environmentally responsible corporate citizen, striving to meet world-class standards as a green enterprise in its environmental performance. BOE has incorporated environmental protection into its overall operation management, turning environmental stewardship into a strategic competitive advantage.

BOE continues to reduce the environmental impact of its operations, making every effort to reduce environmental impacts and striving to restore harmony with the environment. While striving to become a world-leading enterprise in the display sector, BOE is committed to becoming a leader in environmental performance, fulfilling its social responsibilities, and creating environmental value.

BOE has always fulfilled its environmental responsibilities, treating environmental protection and clean production—key green and low-carbon requirements—as major operational priorities. BOE continuously improves and perfects environmental management systems throughout the entire operational process, exercising control at the product design and manufacturing source, and making every effort to minimize environmental impacts over the entire product lifecycle. At the same time, BOE actively addresses climate change by capitalizing on its technological strengths to scientifically enhance the efficiency of energy and resource utilization; actively promotes the use and development of clean energy, reduces waste and greenhouse gas emissions; and is committed to integrating green and environmentally friendly principles into all aspects of production and daily operations, fostering an efficient, clean, and sustainable ecosystem.

In response to the national goals of "carbon peak" and "carbon neutrality," BOE has formulated an action plan to reduce carbon emissions by promoting carbon-neutral pilot projects and applying clean technologies. BOE treats "Dual Carbon" Project as major strategic undertakings and has adopted a "three-step approach" to steadily advance its "Dual Carbon" work, with the goal of achieving operational carbon neutrality by 2050 and contributing BOE's value to the national "Dual Carbon" strategy.

At the same time, BOE has deeply internalized green development principles, designing and building world-leading green factories in a sustainable way. By leveraging innovative technologies and products, BOE reduces environmental impacts, promotes the use of new energy, and realizes resource recycling. BOE integrates the concept of sustainable development throughout its entire value chain, aggregating every effort to build a sustainable future. Currently, BOE has 21 factories recognized as "National Green Factories", the only enterprise in the display industry recognized as a "National Zero-waste Enterprise," one "Lighthouse Factory", two "Zero-Carbon Factory", and four enterprises recognized as "National Green Supply Chain Management Enterprises". In addition, BOE actively participates in international initiatives such as the Science Based Targets initiative (SBTi) and CDP. Nine factories have joined the SBTi, and seven factories have obtained the "UL 2799 Zero Waste to Landfill at the Platinum Level," the highest certification level.

BOE fulfills its green commitments through concrete actions, building a closed-loop green development system covering its business operations and the entire product lifecycle based on a clear "Dual Carbon" strategy and roadmap, striving to advance both environmental protection and social responsibility to new levels.



Product Responsibility

As a new generation of industrial enterprise in China, BOE is naturally endowed with the ethos of "fulfilling the duties of an industrialist," firmly committed to its industrial mission and social responsibilities, proactively adapting to industrial changes.

BOE began its journey with electronic components, amid the wave of display technology replacing vacuum electronic technology, BOE timely shifted to CRT (cathode ray tube) technology, securing a new lease on life. By the late 1990s, even as China's color TV industry enjoyed a golden era—leading the world in CRT TV shipments and exports—BOE had already ventured independently into the liquid crystal display industry, abandoning CRT technology plagued by high energy consumption, low efficiency, and difficulty in recycling, and shifted to more energy-efficient, recyclable, and environmentally friendly LCD technology, thereby completing its transition to the new-generation display industry. By 2010, BOE had become the only mainland Chinese enterprise fully mastering TFT-LCD core technologies, enabling the domestic production of LCD panels across the full spectrum from 1.8 inches to 55 inches, ending China's complete dependence on imported LCD panels for televisions.

Thereafter, BOE continued to advance steadily, continuously expanding its industrial boundaries and embracing AI and IoT technologies. Today, BOE has developed a mature "1+4+N+eco-chain" business architecture, elevating display technology to new levels. Display technology now transcends the screen itself, integrating additional functions, diversifying form factors, and embedding into broader application scenarios, continuously lowering energy consumption while transcending traditional boundaries in product design, application scenarios, and functional dimensions, progressing toward a more sophisticated, green, and low-carbon development model. This fully demonstrates the growth potential of "Screen of Things" and injects new impetus into BOE's high-quality development.

The transformation of BOE's industrial direction fundamentally reflects the iterative advancement from legacy technologies to greener, low-carbon products and technologies, guiding BOE's industrial development toward greater environmental friendliness, energy efficiency, and sustainability. This profoundly reflects BOE's commitment to low-carbon development, its fulfillment of green product responsibilities, and its leadership in green display technologies.



Responsibility Across the Value Chain

Building a healthy, safe, and sustainable value chain is fundamental to a stable development and a key aspect of corporate social responsibility. BOE understands that sustainable and green development of the value chain requires not only strong leadership from enterprises themselves, but also close collaboration with upstream and downstream partners across the industry. Therefore, BOE not only practices environmental protection principles through its own actions, but also advocates for the joint creation of a "green display value chain" with industry partners. Over the years, guided by the principles of "in-depth cooperation, synergistic development, and value co-creation", BOE has actively led industry partners in continuously improving value chain management systems, enhancing the sustainability capabilities and green and low-carbon performance across the entire value chain. Together with partners, BOE addresses innovative challenges in economic, environmental, and social sustainability, co-creating a responsible value chain characterized by harmony, mutual benefit, and sustainable competitiveness. This not only supports the sustainable development of BOE's operations, but also enables BOE to achieve social value beyond economic benefits.

BOE works with suppliers to enhance environmental performance, integrates environmental awareness into its global procurement system, and gives priority to purchasing green products from environmentally responsible suppliers. By providing green products and solutions that reduce environmental impact, BOE collaborates with customers to build an inclusive, sustainable industrial chain that benefits all stakeholders, jointly advancing China's transition toward a green economy and low-carbon society, demonstrating the social responsibility of a leading player in the display industry in fostering a green value chain.

BOE firmly believes that only when capabilities advance alongside social responsibility and innovation equally embraces green and low-carbon principles, can enterprises achieve true sustainable development. Only then can we forge a better future marked by enhanced social value and environmental contributions. We are committed to advancing technology for good, purposefully improving lives, and transforming the boundless potential of the Internet of Things era into social well-being for all.

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Delivering Green Achievements During the 14th Five-Year Plan Period

During the 14th Five-Year Plan period, BOE has consistently taken sustainable development as a guiding principle, fully integrating green development principles into corporate strategy and operations, and steadfastly advancing on the path of green development. We have continuously strengthened our green manufacturing system, advanced energy conservation and emission reductions, actively explored low-carbon technologies, and established a solid ecological foundation for high-quality development. This journey exemplifies BOE's commitment to social responsibility and the pursuit of harmonious coexistence between humanity and nature, delivering a strong record of green achievements for the 14th Five-Year Plan period.

Management Innovation: Strengthening the Governance Foundation for Green Development

An efficient and robust governance system is a critical foundation for enterprises to achieve high-quality, green development. For many years, BOE has consistently adhered to the philosophy of 'upright operation and innovative progress,' actively fulfilling its social responsibilities and fostering harmonious coexistence between the enterprise, society, and the environment, striving to harmonize economic, social, and ecological benefits, and working to create greater value for society.

Implementing Green Operations

BOE is committed to building an efficient and standardized governance system to advance our green development initiatives, systematically managing risks and opportunities, enhancing corporate governance standards and management efficiency, and laying a solid foundation for green and low-carbon development.

Governance Structure

During the 14th Five-Year Plan period, to effectively implement the Group's sustainable development strategy and promote the unified planning and effective execution of "Dual Carbon", BOE established a "Dual Carbon" Project Team in 2021. The project team consists of a Leadership Group and a Working Group, with the Chairman serving as Leader of the Leadership Group and heads of business units and functional departments serving as members of the Working Group, jointly overseeing the overall direction of the Group's "Dual Carbon" efforts. Each business sector has established a dedicated Carbon Promotion Team to implement the Group's "Dual Carbon" requirements and ensure their execution within the sector. To further enhance governance, in 2024 BOE Display piloted an initiative under the Group's governance framework to implementing an internal carbon emissions performance evaluation system to strengthen accountability for the implementation of the "Dual Carbon" strategy, continuously driving the deep implementation of these initiatives.

For energy, water, waste, and pollution management, BOE has established a governance structure of "Group-led, tiered implementation by business sectors". At the Group level, the Energy and Environmental Management Department is responsible for the overall supervision and coordination of energy, water resources, waste recycling, and pollutant emissions management. Each business sector has established

a dedicated governance body to ensure the effective implementation of Group management requirements at the business sector level.

For green products, dedicated teams oversee full lifecycle green management within the Display, Sensing, and MLED businesses. In terms of green services, the energy technology aspect is jointly implemented by the teams of the Chief Technology Officer (CTO) and Chief Operating Officer (COO). Zhongxiangying has established three tiers—governance, management, and execution—responsible respectively for analysis and decision-making, assessment and supervision, and data collection and cost control. Each division works in coordinated collaboration to support the optimization and upgrading of green products and services.

BOE has established a comprehensive green development governance system at the operational level, conducting differentiated management of green development topics. By establishing a two-way, vertically integrated operational decision-making mechanism, tasks and objectives are communicated from top to bottom, while work progress is reported upward in a graded manner according to significance, establishing a routine management mechanism that effectively improves green management efficiency and ensures unimpeded flow of information within BOE.



Management Mechanism

Building on existing risk management processes and aligned with the TCFD framework, BOE optimizes its risk and opportunity identification mechanisms and is optimizing its risk management system for green development across its operations—including risk identification, analysis, response, and oversight. BOE assesses the potential impacts of relevant risks and opportunities on its operations, upstream supply chain, and downstream customers from short-, medium-, to long-term perspectives, establishing a end-to-end risk management system encompassing response strategies and oversight mechanisms.



Identification and Assessment

For risk identification, BOE conducts systematic and ongoing identification and assessment of various risks related to green development, including, but not limited to, key risk categories such as policy and legal, technological, market, and reputational risks. In terms of opportunity identification, we continuously identify opportunities presented by the climate transition through market intelligence, pursuing green development opportunities while ensuring stable and sustainable development.

Based on the outcomes of risk and opportunity identification, we assess the likelihood, magnitude of impact, and potential financial consequences of risk and opportunity factors. For direct operational factors, we evaluate the short-, medium-, and long-term impacts on BOE's operations in formulating management plans, measures, and implementation routes, drawing on government policies, databases, management information, industry forecasts, and enterprise development plans. For upstream supply chain factors, we evaluate potential impacts from multiple dimensions—including macroeconomic, operational, and logistical—across different timeframes. For downstream customer factors, we actively engage with customers to identify their material concerns and assess the corresponding impact downstream.



Response

We integrate the management of green-related risks and opportunities into our green development objectives, develop action plans, and regularly review implementation progress to ensure the orderly implementation of goals. In our own operations, BOE has established science-based emission reduction pathways to ensure long-term green and low-carbon operations. At the upstream supply chain level, drawing on risk assessment findings, we have enhanced our Supplier EHS Code of Conduct, strengthening requirements related to greenhouse gas emissions, and establish an annual dynamic assessment mechanism for key suppliers to assess the operational effectiveness of their environmental risk management systems. At the downstream customer level, focusing on material topics of concern to customers, we integrate green principles into all stages of the product lifecycle, including design, R&D, packaging, and transportation, conducting carbon footprint assessments and product environmental impact evaluations, and promote the green and low-carbon upgrading of products and enhance recycling rates.

BOE institutionalizes the management of these risks and opportunities through group-wide policies, including the *Environmental Risk Management Measures for Operating Units and the Energy and Environmental Management System*, establishing a comprehensive group-wide environmental management system. Each business segment tailors these systems to its specific operations based on its specific business characteristics. The manufacturing segment integrates management processes into a standardized institutional framework through documents such as the *Benchmark for Environmental Aspect Identification and Evaluation*, *Technical Guidance Manual for Identification and Control Facilities of Key Environmental Risks*, *Energy Management Benchmark*, and *Energy Review Management Benchmark*. In practice, this involves developing work plans, control measure checklists, and environmental risk identification lists, and establishing regular reporting mechanisms and training programs, to ensure that all management requirements are effectively implemented.

Green Supply Chain Management

Amid the global trend toward green and low-carbon transformation across industrial chains and growing environmental challenges, building a sustainable and responsible supply chain has become a key corporate priority. BOE recognizes both the urgency and systemic nature of environmental governance within the supply chain and actively fulfills its responsibilities as an industry leader. During the 14th Five-Year Plan period (2021-2025), we are committed to systematically promoting green transformation across the entire supply chain through a top-down governance framework and a management mechanism that balances risk mitigation with value creation, leading industrial chain partners toward a shared sustainable future.

Governance Framework

In 2025, BOE established a three-tier, vertically integrated green supply chain governance framework: decision-making, management, and execution. Under the leadership of the Group Chief Procurement Officer, the Supply Chain ESG Promotion Department assumes centralized coordination responsibilities. In accordance with the strategic deployment of the Chief Procurement Officer, it formulates short-, medium-, and long-term green supply chain development plans and communicates them to supplier management units in each core business segment for refinement and implementation. Procurement departments in each business segment take primary responsibility for coordinating with suppliers to implement these measures. During execution, the Supply Chain ESG Promotion Department conducts regular joint monitoring with supplier management units across business segments on the progress of key green initiatives to ensure the systematic and orderly implementation of green supply chain initiatives.

Management Mechanism

BOE has incorporated green supply chain principles into the full lifecycle management of suppliers, establishing a green and low-carbon risk control process covering “admission, ongoing management, and exit.” Environmental protection and green, low-carbon criteria are integrated into supplier selection standards, conducting pre-admission assessments to evaluate potential risks in green development, including, but not limited to, environmental pollution, waste management, energy and water consumption, climate change impacts, and green products and services. To ensure effective management of existing suppliers and maintain orderly competition throughout the supply chain, BOE conducts regular supplier performance evaluations. Performance evaluations encompass aspects such as green manufacturing practices, green system certifications, and low-carbon initiatives, and the evaluation outcomes are tied to supplier incentives. BOE applies a dynamic supplier rotation and elimination mechanism; if a supplier causes delivery or other risks due to major environmental compliance violations, BOE may suspend cooperation until such risks are fully mitigated.

In practice, each business segment actively enforces these supply chain risk control procedures and continuously strengthens internal enforcement. The manufacturing segment has established a green supply chain management system and a supplier “Dual Carbon” assessment and management framework, to guide the detailed implementation and enforcement of supplier management requirements.

Through full lifecycle risk management of supplier green development and a deepened supply chain management mechanism across the “Group-Business sector” hierarchy, BOE effectively and deeply integrates green and low-carbon principles into its supply chain system, promoting coordinated green and low-carbon development across upstream and downstream value chains, advancing the development of BOE’s green value chain.



Ecological Conservation: Safeguarding the Environmental Foundation for Green Development

During the 14th Five-Year Plan period, BOE consistently upheld ecological protection as a fundamental principle. We strictly adhere to environmental red lines and integrate our green commitments into the entire production and operations chain through systematic environmental management, rigorous pollution prevention and control, efficient waste recycling, and proactive biodiversity conservation initiatives, collectively building ecological resilience and promoting harmonious coexistence between humanity and nature.



Strict Pollution Control at Source

Pollution prevention and control is central to BOE’s ecological conservation efforts. During the 14th Five-Year Plan period, we have established a systematic environmental management framework for full-process pollution prevention encompassing source reduction, process control, and end-of-pipe treatment for pollutants such as wastewater and exhaust gas generated during production and operations. With compliance management serving as both a strategic imperative and an operational focus, and using regular environmental management evaluations and supervision of business segments as a key tool, we have continuously driven the effective implementation of pollution prevention initiatives throughout the group. From 2021 to 2025, we achieved zero environmental incidents, zero instances of excessive emissions, and zero government penalties.

Environmental Training

BOE is committed to enhancing employees’ environmental awareness and competencies. We deliver environmental management training tailored to different job roles, covering topics such as environmental legal compliance, identification of environmental aspects, emergency response to pollution incidents, and enhancement of emergency response capabilities, thereby strengthening employees’ ability to manage environmental matters and respond to environmental emergencies. Additionally, we regularly organize themed environmental awareness campaigns on various topics such as pollution prevention and waste management, advocating employee participation in environmental actions through diverse methods including case studies, interactive Q&A sessions, and practical exercises

During the 14th Five-Year Plan period

BOE conducted over **1,400** environmental training sessions

involving over **one million** employee participations



Environmental Risk Assessment

BOE continuously enhances environmental risk identification and prevention by conducting comprehensive environmental management assessments across the Group, covering aspects such as compliance, environmental training, monitoring of wastewater and exhaust gas emissions, chemical usage, and emergency preparedness. Each business segment conducts independent, full-coverage environmental risk assessments, while the group performs focused spot inspections to ensure overall environmental risks remain under control.

During the 14th Five-Year Plan period, we implemented a major environmental risk identification and control initiative

strengthening the capacity for environmental risk identification and management, and conducted over **1,400** environmental emergency drills, continuously enhancing the Group’s ability to respond to environmental risks

Pollution Prevention Measures

BOE's business segments strictly implement the pollutant red-line management requirements, implementing a full-chain, closed-loop management system covering source control, production operations, and recycling/reuse, tailored to their respective operational characteristics. Real-time pollutant monitoring mechanisms are employed to strengthen compliance and comprehensively mitigate emission-related risks. Specific measures include:

Source-Based Emission Reduction Management

Prioritizing the use of raw materials with low volatile organic compound (VOCs) content to reduce air pollutant generation at the source.

Production Operation Optimization

Gradually replacing conventional chemicals—such as cleaning agents and adhesives—with environmentally friendly alternatives in production processes to reduce harmful exhaust emissions; continuously increasing the share of clean energy in production operations to effectively lower emissions of pollutants such as sulfur dioxide and nitrogen oxides in exhaust gases.



Resource Recycling

Using advanced technologies to recover valuable materials, such as precious metals, from process wastewater to achieve resource recycling, such as the recovery of precious metals.

Real-time Monitoring and Early Warning

Implementing 24-hour online monitoring of wastewater discharge parameters, and establishing corresponding emergency response procedures and treatment facilities. In the event of parameter fluctuations, the system triggers alerts and initiates emergency protocols to ensure continuous compliance with discharge standards.



BOE Ordos Gen 5.5 TFT-LCD production line recognized as a model in high-quality development of the Yellow River basin

In 2022, the production line launched a wastewater recovery project, constructing a wastewater treatment system that enables 91% of production wastewater to be recycled and reused for ultrapure water production, reducing water consumption per square meter of display panel produced by 69%, thereby returning water withdrawal quotas to the Yellow River Basin.

In 2024, BOE launched an innovative project to recycle organic, phosphate-containing, and color-filter wastewater. The treated effluent from the wastewater system is reused as feedwater, after which suspended solids are removed in a pretreatment unit, followed by treatment through antifouling UF and RO membranes, with novel scale inhibitors ensuring continuous operation and effective removal of impurities. The system's purified output replaces municipal water as process feedwater, achieving wastewater reuse and reducing municipal water consumption. Supported by various innovative technologies, the production line's system recovery and water production rates rank among the industry's leading levels, and was recognized as a model water-saving industrial enterprise in the Yellow River Basin's high-quality development initiative.



Improving H-ORG System Recovery Rate



Exhaust Emission Control at Chongqing's 6th-generation Flexible AMOLED Production Line

In 2024, the production line implemented recovery of VOCs from organic exhaust gases and established a fugitive VOCs emissions management system. By optimizing the collection of volatile organic compounds, fugitive VOCs emissions were reduced to near zero. Meanwhile, technical upgrades and optimizations were implemented for organized emission and greenhouse gas treatment facilities, contributing to improved regional air quality. In 2024, VOCs treatment efficiency increased to 96%, reducing annual VOCs emissions by approximately 30 tons.



Transforming Waste into Value

Waste recycling is a key element of green manufacturing, serving as a crucial means to alleviate resource constraints and reduce environmental impact, but also as an inevitable requirement for implementing green development strategies. During the 14th Five-Year Plan period, BOE has advanced a closed-loop waste management model to transform waste into reusable resources, promoting the synergy between economic development and ecological protection.

Indicator	Unit	During the 14th Five-Year Plan period
Total Amount of Waste Generated	10 kt	163
Total Amount of Hazardous Waste Generated	10 kt	49
Total Amount of Non-hazardous Waste Generated	10 kt	116

4R Principle

Recycle • Reduce • Renew • Responsibly

R_{ecycle}

Segregated Collection

- **Hazardous Waste:** Strictly classify to ensure targeted treatment for different waste types.
- **Non-hazardous Waste:** Establish dedicated areas for the segregated collection of waste such as paper, plastic, metal, and glass.

Internal Recycling

- **Hazardous Waste:** Hazardous waste with reuse value is reused internally. For example, waste developer solution, an alkaline liquid, is used to adjust pH in acid-base wastewater treatment systems.
- **Non-hazardous waste:** Encourage direct internal reuse, such as double-sided printing and reusing packaging materials.

Professional recycling

Partner with certified recyclers to ensure efficient recycling.

- **Hazardous waste:** Recycle and reuse recyclable hazardous waste (e.g., waste solvents, contaminated materials).
- **Non-hazardous waste:** Send waste paper to paper mills for recycling into new paper and waste plastic to plastic processing companies for reprocessing.

R_{educe}

Source control

- **Hazardous waste:** Strengthen raw material management (e.g., using closed systems) to minimize waste and leakage.
- **Non-hazardous waste:** Give priority to procuring raw materials and products that are recyclable, biodegradable, and low in pollution to reduce the generation of non-recyclable waste.

Process optimization

- **Hazardous waste:** Optimize processes (e.g., adopting low-hazard alternatives) to minimize hazardous waste generation.
- **Non-hazardous waste:** Optimize production processes to reduce raw material waste. For example, reduce the generation of offcuts and defective products during production through precise material management and process optimization.

Process reduction

- **Hazardous waste:** Regularly maintain production equipment and hazardous waste treatment facilities to ensure their proper operation and reduce hazardous waste leakage caused by equipment failure.
- **Non-hazardous waste:** Optimize product packaging design to reduce unnecessary packaging materials and use eco-friendly packaging materials.

R_{enew}

Energy recovery

- Convert non-recyclable waste into energy (e.g., via waste-to-energy incineration) through qualified partners.

Reuse

- **Hazardous waste:** Resource recovery: Recover valuable resources, such as precious metals or valuable chemicals, from hazardous waste using advanced extraction technologies. For example, recover cesium, a heavy metal, from cesium iodide cleaning wastewater through purification and reuse. Regeneration and reuse: Convert treated hazardous waste into new products or materials. For example, use treated waste plastic to produce plastic products of lower value.
- **Non-hazardous waste:** Recycled waste is reprocessed to produce new products. For example, waste plastic is processed into plastic pellets for manufacturing new plastic items.

R_{esponsibly}

Compliance Management

- Strictly adhere to national and local waste management regulations to ensure the entire process of hazardous waste generation, collection, storage, transportation, and disposal is lawful and compliant.

Environmental Monitoring

- Regularly monitor environmental impacts during waste treatment to prevent secondary pollution.

Employee Training

- Conduct regular waste management training for staff to ensure proficiency in waste identification, classification, and handling methods, enhancing safety awareness and operational skills.

Emergency Response

- Maintain comprehensive response plans for incidents like hazardous waste leaks to mitigate impacts.

BOE has integrated the 4R principles—Recycle, Reduce, Renew, and Responsibly into its waste management practices throughout the 14th Five-Year Plan period. The manufacturing segments have established a waste management system based on the 4R principles to promote the recycling and resource recovery of hazardous and non-hazardous waste.



Striving to be a zero-waste enterprise through fine waste management across the entire process

In 2024, Chongqing BOE Optoelectronics Technology Co., Ltd. was selected as one of the first national zero-waste enterprises. The company has established a monitoring model throughout solid waste generation, in-plant temporary storage, in-plant delivery, outbound transport, utilization, and disposal. Through measures such as organic gas condensation recovery, sludge volume reduction, and waste acid self-utilization, coupled with resource utilization projects for waste organic solvent reuse and value chain recycling with downstream partners, the company reduces waste by approximately **5,566** tons annually. By partnering with suppliers capable of resource-based disposal, the company has reduced solid waste incineration while eliminating landfill disposal. As a result, its waste conversion rate rose from **50%** during initial operations to **97%**.



First company in mainland China to achieve both UL3600 and UL2799 certifications

In 2022, the Chongqing Gen 8.5 TFT-LCD production line obtained UL3600 Circular Economy Factor certification and UL2799 Zero Waste to Landfill Gold certification. In terms of raw material selection, the production line selected glue frames and backplates made from recycled materials for product manufacturing, achieving a verified circularity rate of 51% for 15.6-inch products. In terms of waste emission reduction, the line optimized copper-containing wastewater treatment processes, reducing annual copper-containing sludge emissions by 510 tons, and launched an in-plant waste acid recycling initiative, reducing hazardous waste emissions by 1,230 tons per year. In waste disposal, the line conducted audits of waste handlers to ensure compliant waste management. Through these measures, the factory achieved a 74% waste recycling rate, becoming the first company in mainland China to pass the UL3600 certification and obtain the certificate.

Following this achievement, BOE has continued to forge ahead in waste recycling.

As of the end of 2025



Two products have obtained UL3600 Circularity Facts, achieving remarkable results, and **seven** BOE factories have obtained the UL2799 Zero Waste to Landfill at the **Platinum Level**. **Two** products have obtained UL3600 Circularity Facts, achieving remarkable results.



Safeguarding Ecological Balance

BOE recognizes biodiversity as fundamental to sustainable development, integrating biodiversity conservation into the strategic planning of corporate development and throughout the entire lifecycle of business operations. We strive to minimize our impact on and dependence on the ecological environment, continuously improving our biodiversity conservation strategies and actions to build a green, low-carbon, and eco-friendly intelligent manufacturing system. During the 14th Five-Year Plan period, BOE's engagement in biodiversity conservation has deepened, with our initiatives evolving from project participation to integration into daily operations.

In 2021, BOE actively participated in the theme event and volunteer action for the biodiversity survey organized by Beijing Economic-Technological Development Area (BDA), under the theme "Walking the Path of Harmonious

Coexistence, Creating a Green and Happy City." Through various environmental awareness campaigns, we enhanced employees' understanding of biodiversity conservation.

We have incorporated biodiversity conservation principles into the siting, construction, and operation of our facilities. During the site selection phase, we avoid ecologically protected areas, preventing potential impacts on ecologically fragile areas at the source. As of the end of 2025, BOE has no operational activities in Key Biodiversity Areas (KBAs). During project construction, we continuously advance the development of eco-friendly factories, integrating ecological considerations into project planning and construction. Through ecologically sound measures such as optimizing functional zoning, adopting compact layouts, and increasing green space coverage, we effectively promote local ecological balance.



Bird Protection Device at the Mianyang Gen 6 Flexible AMOLED Production Line

The production process produces exhaust gas containing NMF (N-methylformamide) and NMP (N-methylpyrrolidone). The terminal exhaust treatment system recovers and reuses NMF and NMP by condensing and separating them from the exhaust gas, maximizing resource recovery and minimizing environmental impact. This type of exhaust gas treatment technology is widely adopted in the electronics industry. However, the NMP&NMF liquid separated by the system's condenser has certain biological toxicity. When the condensate overflows into the collection tray, migratory birds may mistakenly ingest the liquid, resulting in fatalities. To prevent birds from ingesting the condensate, starting in 2023, the Mianyang production line installed protective nets on the exhaust system's condensate collection trays, effectively preventing bird access. This initiative has significantly reduced bird mortality, contributed to biodiversity conservation, reduced costs, improved efficiency, and advanced harmonious coexistence between humans and nature.



Resource Conservation: Laying the Foundation for Green Operations

In the face of dual challenges from global climate governance and industrial low-carbon transformation, BOE takes improving resource efficiency as a core approach to sustainable development. Through technological innovation, management optimization, and full value chain collaboration, we are building a resource-efficient operational system. BOE focuses on key issues related to energy and water resources, systematically outlining our strategic initiatives, management practices, and performance outcomes in the field of green operations, driving a low-carbon future through technology.



Enhancing Energy Efficiency

Energy is a core operational element, directly impacting cost control and the progress of green development. BOE views improving energy efficiency as a key driver of strategic transformation during the 14th Five-Year Plan period, continuously promoting energy conservation and the application of low-carbon technologies, actively introducing clean energy, and implementing a 'whole lifecycle' approach to energy management. We are committed to developing an energy-efficient production model and operational framework to align with global energy transition trends, strengthen our competitiveness, and lay a solid foundation for sustainable long-term development.

As of the end of 2025



We have established **21** "National Green Factory", the **only** "National Zero-waste Enterprise" in the display industry, **one** "Lighthouse Factory" and **two** "Zero-carbon Factory", as well as **four** "National Green Supply Chain Management Enterprise".

Item	Unit	2025
Total energy consumption	tce	1,513,722
Purchased electricity consumption	MWh	11,695,380
Natural gas consumption	m ³	26,400,000
Steam consumption	ton	102,525
Gasoline consumption	ton	387
Diesel consumption	ton	71
Self-generated solar power consumption	MWh	258,700

Systematic Development and Intelligent Advancement of Energy Management Systems

BOE has established an ISO-certified, comprehensive energy management framework, establishing a solid institutional foundation. Systematic energy audits, target setting, and performance monitoring mechanisms are implemented. Through deep integration of digital technologies, an intelligent management platform has been established to enable dynamic energy consumption tracking and optimized control, while continuously developing AI-driven energy optimization solutions. Guided by lean principles, we implement multi-level energy-saving initiatives in a coordinated manner, significantly improving energy efficiency in production processes and promoting the systematic and intelligent advancement of green operations.

Clean Energy Transition and Integrated Application of Low-Carbon Technologies

BOE has charted an innovative, comprehensive pathway for achieving zero-carbon operations, built on three pillars: clean energy sourcing, in-process efficiency, and end-of-pipe recycling. BOE is expanding large-scale renewable energy infrastructure, including photovoltaic generation, and is exploring innovative models that promote ecological synergy. At the same time, the group is intensifying the application of key technologies, including waste heat recovery and green manufacturing process upgrades, to achieve cascaded energy use and resource recovery across production processes. Through integrated technological application and strategic upgrading, BOE continuously enhances its low-carbon competitiveness in complex energy-use scenarios.



AI Energy Management System at the World's First "Lighthouse Factory" in the Display Industry

Fuzhou's 8.5th-generation TFT-LCD production line was recognized as a global "Lighthouse Factory" in advanced manufacturing in 2022, with the core innovation lying in the deployment of an AI-driven energy management system. Through machine learning-based dynamic optimization of production energy consumption, the system achieved a 34% reduction in unit cost, 39% lower electricity consumption, and 27% less water usage, establishing a benchmark for energy efficiency in the industry. In 2024, the production line further constructed rooftop distributed photovoltaic power stations on production facilities and supporting buildings. Upon commissioning, the stations are expected to generate 23,484 MWh of electricity annually, equivalent to an annual reduction of approximately 21,000 tCO₂e emissions, establishing a green manufacturing paradigm driven by "intelligent algorithms + clean energy".



Fuzhou 8.5th-Generation TFT-LCD Production Line



Strategic Upgrade of Zero-Carbon Integrated Energy Services

In 2022, BOE pioneered the implementation path of "source decarbonization - process carbon reduction - intelligent carbon management." In Sunite Youqi, Inner Mongolia, it completed the 200 MW agro-photovoltaic-energy storage integrated demonstration project, pioneering the "photovoltaic livestock farming + desertification control + energy storage" model, delivering approximately 400 million kWh of green electricity annually and reducing 250,000 tCO₂e emissions per year. Meanwhile, BOE developed the BSEOS 2.2 intelligent energy operating system, mastering digital twin and multi-protocol access technologies. The BSEOS Cloud Box connects to over 80% of IoT terminals, delivering carbon management services to 53 multinational corporations.

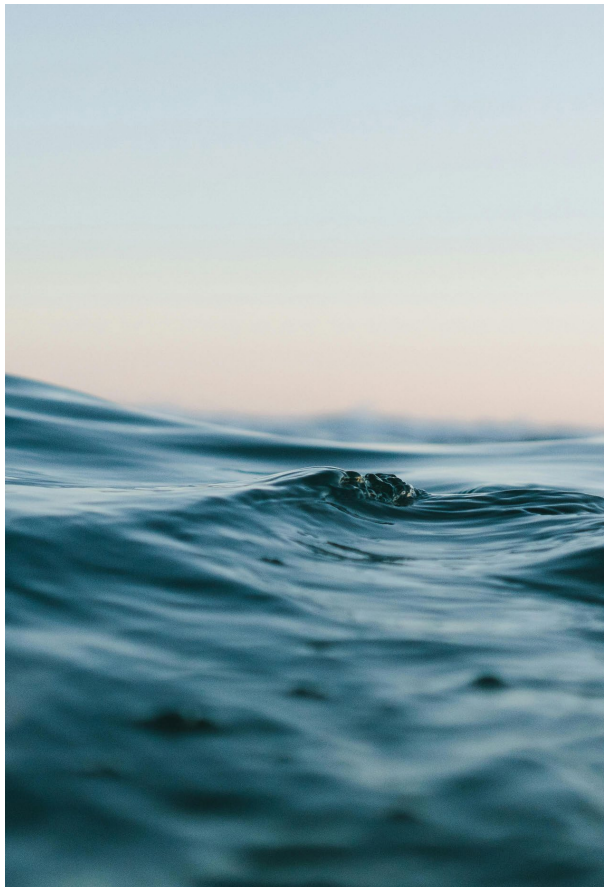


Sunite Youqi, Xilingol League, Inner Mongolia: Agro-Photovoltaic and Energy Storage Integrated Demonstration Project

Water Conservation Practices

Water is a critical resource for green development. BOE integrates water stewardship into the core of its green development strategy, systematically reducing water consumption intensity through integrated governance, technological innovation, and circular utilization, mitigating water scarcity risks, and promoting green transformation across the entire value chain. Guided by the principles of 'reduce, recycle, and regenerate,' the Group has established a water conservation management system across all business units, significantly enhancing water use efficiency to support ecological conservation and ensure business sustainability.

Item	Unit	2025
Total water withdrawal	m ³	85,770,700
Total wastewater discharge	m ³	73,190,000
Total water consumption	m ³	12,590,000
Water Saved	m ³	5,370,000



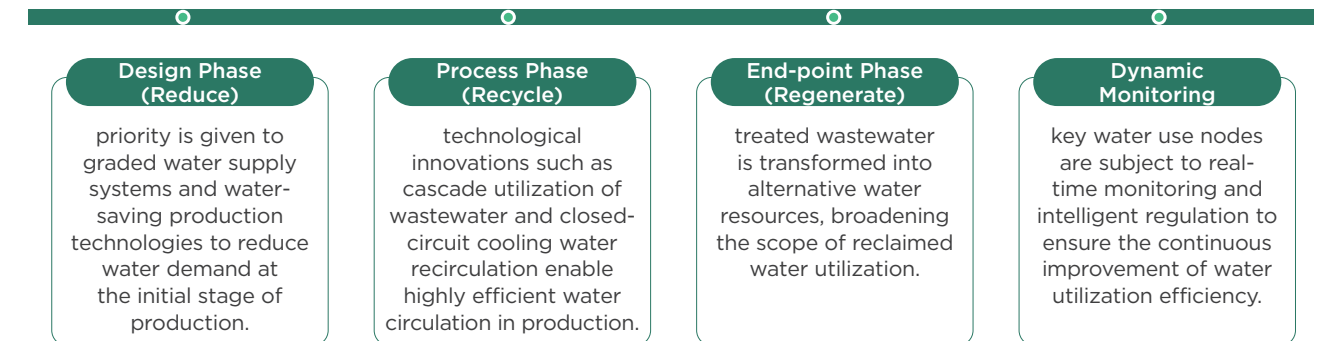
Water Risk Assessment

BOE has established a full-process water risk control system covering withdrawal, use, and discharge, systematically identifying and managing water-related risks through regular compliance inspections, tiered monitoring, and emergency response mechanisms. Each business unit conducts regular specialized assessments, and the Group conducts dynamic supervision to ensure closed-loop management. In 2024, BOE further enhanced its risk identification capabilities and plans to continuously enhance the accuracy of water risk early warning systems and response effectiveness through the upgrading of intelligent monitoring systems.

Our water risk assessment identified that upgrading wastewater recycling systems, implementing water quality-based reuse, and implementing intelligent water management could significantly reduce freshwater intake and lower costs. Accordingly, we made targeted investments of RMB 23.65 million to advance 16 water-saving projects across six key factories in 2024, and simultaneously strengthening supply chain control—incorporating water resource metrics into supplier EHS audit frameworks and developing low-carbon products in response to downstream clients' ESG demands. These efforts not only enhance production resilience to regional water shortages and flood risks but also convert water-use efficiency into a competitive strength, facilitating the expansion of green financing channels and establishing a foundation for the export of industrial water conservation technology solutions, ultimately transforming water management from a compliance cost into a source of value.

Initiatives for Water Efficiency

BOE has established a three-level water conservation technology system: 'source reduction, process recycling, and end-point regeneration'—and implemented a dynamic monitoring mechanism enabling real-time tracking of the entire water utilization process:



Water Cycle Optimization at BOE Wuhan's 10.5th-Generation TFT-LCD Production Line

The production line achieves highly efficient water recycling through systematic technological innovation. In 2022, it developed a recovery process for high-organic reverse osmosis (RO) concentrate, and simultaneously implemented backwash water reuse and cooling tower water-saving retrofits, achieving annual water savings of over 3,000,000 m³. In 2023, it further optimized the process water recovery pathway, raising the industrial water reuse rate to 95.03%, and achieving an indirect cooling water recycling rate of up to 99.70%, approaching near-zero discharge, setting a benchmark for water recycling in high-generation panel production lines.



Wastewater Treatment Facility, BOE Wuhan 10.5th-Generation TFT-LCD Production Line



BOE's First Production Line to Apply Reclaimed Water on a Large Scale

The Beijing Gen-8.5 TFT-LCD production line is BOE's first to adopt reclaimed water on a large scale. By using reclaimed water instead of tap water in the preparation of ultrapure water, with a daily reclaimed water consumption exceeding 20,000 tons in 2025, following water conservation retrofits, the line now fully relies on reclaimed water for production needs. This has achieved annual water savings of approximately 3,300,000 tons—equivalent to the annual domestic water use of 7,000 people. This significantly reduces the intensity of fresh water usage and has become a demonstration project for efficient utilization of recycled water within the group.

Climate Action: Powering Green Development Strategy

Climate change has become a major global challenge, triggering profound changes in global resource use, production, and broader economic activities. BOE fully recognizes the urgency and long-term impacts of climate change and consistently regards climate action as a core element of corporate responsibility. Advancing green transformation through technological innovation, we are providing technological support for global climate governance, and contributing to a green, low-carbon future.

Climate Change Response

BOE, based on its industrial layout and future development plans, employs a science-based strategic approach to address climate change challenges and commits to achieving carbon neutrality in its own operations by 2050. At the outset of the 14th Five-Year Plan period, BOE established a "three-step approach" for the "Dual Carbon" goals: during the first half of the 14th Five-Year Plan (2021-2022), it established and refined its carbon emissions management system, defining clear targets and roadmaps for achieving "Dual Carbon"; during the second half (2023-2025), it implemented peak-carbon actions and formulated pathways toward neutrality; and during the 15th Five-Year Plan period (2026-2030), aiming to achieve carbon peak, it will advance the process of carbon neutrality. To ensure the smooth implementation of this three-phase strategy, BOE systematically and efficiently implements various emission reduction and efficiency enhancement measures, continuously optimizes low-carbon operational models across all links of its industrial chain, advances green and low-carbon development within the group's '1+4+N+eco-chain' industrial structure, and promotes the development of an open, collaborative, and win-win green and low-carbon ecosystem through the integration of 'technology + green'.

GHG Emissions	Unit	2025
Scope 1 GHG Emissions	tCO ₂ e	740,000
Scope 2 GHG Emissions	tCO ₂ e	6,230,000

Notes:

1. The 2025 greenhouse gas emission data scope covers BOE's business units including the display and IoT innovation, sensors and solutions, MLED, smart medical engineering, technology assistance services, and office operation areas, etc.
2. Statistical categories for Scope 1 greenhouse gas emissions include stationary source combustion emissions, mobile source combustion emissions, and process emissions.
3. Third-party verification has not yet been completed at the time of report publication; please refer to the verification certificate issued by the third party for the final data

Green Management

In terms of corporate operations, BOE has established a carbon emissions management system and established a carbon accounting mechanism. Since 2021, it has engaged third-party organizations to conduct annual carbon inventories covering Scope 1, 2, and 3 emissions, gaining visibility into its operational and value chain emissions, establishing a carbon emissions database, and supporting the prediction of carbon emission trends.

Within the supply chain, BOE is developing a supplier carbon management platform, utilizing digital and intelligent technologies to develop an end-to-end solution for managing supplier carbon emissions. Through functions such as automated data collection, intelligent verification, multi-dimensional analysis and assessment, target setting, and process monitoring, significantly enhancing the rigor and efficiency of supply chain carbon management.



Carbon Neutrality Pathway

BOE is committed to pioneering carbon neutrality practices and promoting energy conservation and emission reduction. In 2021, BOE promoted carbon neutrality pilot projects. As founding and governing members of the Beijing Economic-Technological Development Area Zero-Carbon Industry Innovation Association, BOE's Beijing 5th-generation TFT-LCD production line and Beijing 8.5th-generation TFT-LCD production line adhered to an "intensive, efficient, green, and low-carbon" development model. Through implementing energy-saving and emission-reduction projects and utilizing clean energy, they actively advanced the development of zero-carbon workshops. Building upon these pilot initiatives, we continuously refine our approach, establishing a comprehensive zero-carbon implementation pathway across the entire group: "source decarbonization, in-process carbon reduction, negative carbon at the end, and smart carbon management". This framework drives BOE's green transformation and has garnered ongoing external recognition.



- The Mianyang Gen 6 AMOLED (Flexible) production line received **"Zero-carbon Factory"** international certification and obtained the PAS 2060:2014 Specification for the Demonstration of Carbon Neutrality after conducting an operational carbon neutrality accounting.
- Yunnan Invensight Optoelectronics Technology Co., Ltd. was awarded the **"Five-Star Zero-carbon Factory"** certificate under Category I and the PAS 2060:2014 carbon neutrality certificate.
- Chongqing 8.5th-generation TFT-LCD production line received the Green and Low Carbon Award at the **2023 China New Display Industry Development Contribution Awards from China** Electronics Materials Industry Association and the Liquid Crystal Branch of China Optics and Optoelectronics Manufactures Association.
- Beijing 8.5th-generation TFT-LCD production line received the China's **Top Runner** for Industrial Carbon Peaking from the China Federation of Industrial Economics.
- Zodiac GLOBALHUB was certified by the LEED **Gold** for Green Building Standard.



The Mianyang Gen-6 Flexible AMOLED Production Line Establishes the Display Industry's First Carbon-Neutral Factory in China, Setting a New Benchmark for Green Transformation

By implementing an innovative model of 'green power coverage, carbon footprint management, and technology-enabled carbon reduction,' the Mianyang plant achieved carbon neutrality in production, becoming the first production facility in China's display industry to achieve carbon neutrality.

- **100%** Green Power Coverage: The Mianyang plant achieved 100% renewable electricity usage for production through procurement of hydropower, wind power, and solar power, achieving an annual indirect greenhouse gas emission reduction of nearly 500,000 tons.



Rooftop Photovoltaic Systems



The Mianyang Gen-6 Flexible AMOLED Production Line Establishes the Display Industry's First Carbon-Neutral Factory in China, Setting a New Benchmark for Green Transformation

Comprehensive carbon footprint management throughout the entire process

The Mianyang factory implements carbon footprint monitoring across the entire process, from raw material procurement to production, conducts optimization and analysis to identify key directions for carbon reduction, reduces the carbon emission impact caused by product iteration and upgrades, and achieves transparent and traceable carbon emissions management. Currently, BOE's product carbon footprint is at an industry-leading level. The factory also employs an energy management system to conduct real-time tracking of energy consumption across all production stages, conducts systematic analysis and continuous improvement of energy-saving measures. In 2024, the factory proposed over 60 energy-saving initiatives, resulting in cumulative electricity savings of 32,630 MWh and a reduction of 17,500 tCO₂e emissions.



Energy Management System

Technological emission reduction and carbon mitigation

The Mianyang factory advances energy conservation and emissions reduction through technological innovation, by continuously optimizing production processes, including extending the cleaning cycle of NF₃ gas, air compressor energy-saving retrofits, and intelligent cleanroom lighting controls, achieving a reduction of 3,255 tons in direct carbon emissions and 3,677 tons in indirect emissions in 2023.



Air Compressor Energy-Saving Retrofit



BOE Receives SGS's First Certification Statement for Carbon Neutrality Achievement under PAS 2060:2014 for a 14-inch NB Display

In 2023, Chongqing 8.5th-generation TFT-LCD production line obtained the PAS 2060:2014 Carbon Neutrality Achievement Verification Statement issued by SGS for its 14-inch notebook (NB) display. Using this product as a pilot, Chongqing BOE achieved a net-zero carbon footprint by implementing technological carbon reduction measures across the supply chain, production, packaging, and transportation, and offsetting residual emissions.



Award Ceremony for the PAS 2060:2014 Carbon Neutrality Certification of the 14-inch NB Display

Fostering a Green Culture

BOE actively promotes green initiatives. By establishing a green administrative service system, it leverages "digital" points and "scenario-based" services to enhance employee participation and social responsibility, pooling collective efforts to contribute wisdom and dedication to green development, thereby fulfilling social responsibilities while supporting business operations.

Since 2022, BOE has focused on the principle of "behavior quantification - point-based incentives", using a digital platform for green actions. Through interactive green administrative service features such as the "Energy Tree", AI-assisted plate recognition, carbon emission reduction models, and carbon coin exchange, the company has driven full employee participation. By the end of 2025, through diverse practices including employee check-ins and themed activities, the company had achieved a cumulative carbon reduction of 26,554 tons. It released the "Green Administrative Service Green Paper" and established a standardized system for green scenarios, implementing green administrative services across ten major scenarios including green canteens, green dormitories, green meeting rooms, and green cafés. BOE also co-developed and put into practice the "Evaluation Standard for Building Zero-Carbon Spaces", promoting the upgrading of administrative services toward higher standards and greater replicability. Through measures such as intelligent bed management, equipment upgrades, precise control of lighting periods, and scientific setting of temperature control standards, the company has implemented 118 energy-saving and consumption-reduction initiatives. It has launched the "Qixin Green Assistance Series of Mini-Lectures", with 30 sessions held so far, disseminating green administrative service upgrade practices and exemplary external cases. In addition, BOE has facilitated over 200 green-themed activities across its units, fostering a company-wide atmosphere of green action.



Conducting World Environment Day Themed Activities

On June 5, 2024, BOE held a World Environment Day campaign. Through activities such as themed salon, expert training, green action, and quiz, this event disseminated knowledge of environmental protection and raised employees' environmental awareness.

Themed Salon

BOE shared its energy-saving and low-carbon practices themed on Low-carbon Leader, Leading Water Conservation Initiatives, Plant Digitization, Medical Waste Management, and Zero-carbon Path.

Expert Training

BOE invited experts from China Beijing Green Exchange, Beijing Carbon Market Trading Center to offer a training course on "Practicing Social Responsibility to Zero Carbon".

Green Action

BOE continuously upgraded green administrative service scenarios, integrating green and low-carbon principles into both working and living environments. During the event week, over 780 employees participated in the lunchtime "Clear Your Plate" campaign.

Knowledge Quiz

Over 800 employees actively participated in the June 5 Environment Day knowledge quiz.

Product Services: Building a Green Value Platform

BOE leverages its full industrial chain advantages to systematically build a dual-engine system driving both product innovation and service upgrades. Facing the accelerated global carbon neutrality process, the Group focuses on green product lifecycle management and green service value chain restructuring as strategic pillars. Through standardized frameworks, differentiated implementation, and innovative mechanisms, we enhance environmental performance across R&D, material selection, production, and end-of-life management. This delivers systematic solutions to global customers that combine low-carbon competitiveness with commercial value.

Creating Green Products

Amid the accelerating global push for carbon neutrality, BOE defines green products as a strategic nexus linking environmental responsibility to commercial innovation. Leveraging our display, sensing, MLED, and new material business, we have built a management system covering the entire lifecycle of green products.

Full Lifecycle Management

BOE has established a closed-loop system covering design, material sourcing, logistics, and recycling. In product design, BOE implements design for disassembly and the principle of minimizing resource use, significantly improving product energy efficiency through innovations in optical materials. In raw material selection, BOE prioritizes environmentally friendly materials and materials with a high proportion of recycled content, advancing the substitution of hazardous substances. In logistics and storage and transportation, BOE innovates with lightweight packaging and restructured transportation networks, significantly lowering the carbon intensity of the supply chain. In recycling, BOE has established a multi-tiered recycling mechanism, advancing regeneration technologies for critical manufacturing materials and collaborating across the value chain to build resource-sharing platforms, facilitating the transition from a linear to a circular economy model. Meanwhile, BOE leverages digital tools, including a product carbon footprint management platform, to enhance the efficiency of green product management.



Low-Carbon Technology Certification System

BOE drives green product upgrades through dual drivers of core technological innovation and compliance with international standards. In research and development, BOE focuses on low-power architectures, pollution abatement technologies, and high-value utilization of waste, continuously reducing the environmental footprint of its products. In certification, BOE has established a phased advancement pathway, pioneering the display sector's first industry-wide product carbon footprint certification, achieving carbon neutrality for core products—a significant milestone—and gradually extending certification coverage to multiple internationally recognized standards. BOE also actively participates in the formulation of green product standards, including Greater Bay Area group standards for product carbon footprints, collaborating with industry partners to advance carbon reduction across the supply chain.



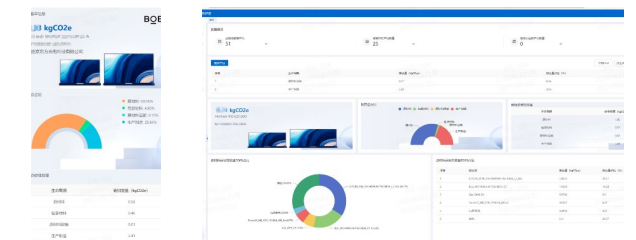
Establishment of a Carbon Footprint Certification System

In 2022, BOE completed carbon footprint calculations for 14-inch notebook products using a 'cradle-to-gate' approach in compliance with ISO 14067, secured third-party certification and obtained carbon footprint certificates. In 2023, BOE achieved two breakthroughs in product carbon footprint certification: its 16-inch 4K product became the first LCD notebook display to be certified by Carbon Trust for carbon footprint, and the 14-inch NB display manufactured by Chongqing BOE Optoelectronics Technology Co., Ltd. achieved carbon neutrality verification from SGS in accordance with PAS 2060:2014, making it the industry's first 'zero-carbon product'. In the same year, BOE's display segment completed carbon footprint verification for 13 products, and its MLED segment for 5 products. During the 14th Five-Year Plan period, the carbon footprint certification system continued to be deeply improved and actively participated in formulating the Greater Bay Area product carbon footprint group standard. By the end of 2025, the display business had a total of 48 products that had received cumulative carbon footprint assessment and verification reports.



BOE's Display Product Carbon Footprint Management Platform

The product carbon footprint management platform built by BOE Display is an intelligent management system integrating product lifecycle modelling, accurate carbon footprint calculation, and in-depth analysis. The platform strictly follows international standards such as ISO 14067:2018 (Greenhouse gases—Carbon footprint of products—Requirements and guidelines for quantification) and PAS 2050:2008 (Specification for the assessment of the life cycle greenhouse gas emissions of goods and services). It incorporates industry-standardized carbon footprint accounting models and dynamically integrates



Product Carbon Footprint Platform Interface

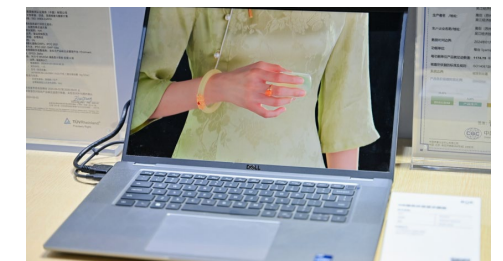
mainstream domestic and international carbon emission factor databases, ensuring the accuracy and timeliness of calculation results through a real-time data calibration mechanism.

Leveraging digital interoperability, the platform establishes direct data connectivity with suppliers' carbon management systems, ensuring traceability of component carbon footprints. This functionality enhances product carbon footprint transparency to the "component level," laying a solid data foundation for the subsequent design and development of green products.



Iterative Upgrades of Low-Carbon Display Technologies

In 2021, BOE's Generation 8.5 TFT-LCD production line in Beijing introduced design for disassembly during the product design phase, incorporating green design throughout the entire product lifecycle. In 2022, BOE's Generation 10.5 TFT-LCD line in Hefei applied high-transmittance design and materials in TV products, increasing product transmittance by 30%. In 2024, BOE achieved three technological advances: the 16-inch laptop green display low-carbon module used 58% recycled materials and powered production with 100% renewable energy, reducing carbon emissions by more than 50%. By combining low-power design with Oxide backplane technology, laptop panels achieved over 30% reduction in energy consumption. TV backlight modules incorporate recycled PC material, enabling the annual processing of more than 400 tons of waste optical discs.



BOE's 16-inch Laptop Green Display Low-Carbon Module

Innovating Green Services

Guided by the “Screen of Things” strategy, BOE systematically constructs a green service ecosystem encompassing energy management, smart healthcare, and digital parks. Zhongxiangying, a key component of BOE's green service ecosystem, utilizes IoT and artificial intelligence technologies to promote the low-carbon transformation of service models, offering partners end-to-end solutions, including consultation, implementation, and verification. While continuously optimizing service processes to enhance carbon efficiency, BOE actively explores innovations in resource recycling and digital management, achieving synergistic improvements in both environmental and economic performance.

BOE is committed to building a green service chain that spans technological innovation, application deployment, and ecosystem collaboration. In the field of smart energy, BOE is reshaping ecological governance through integrated photovoltaic-plus-storage models and near-zero-carbon industrial parks utilizing multi-energy coordination technologies and ultimately evolving toward a digital platform for carbon asset management. In the field of smart engineering medicine, starting with digital hospitals, BOE is gradually building a full-cycle, closed-loop health service system, extending to areas of public wellbeing such as adolescent vision health. This approach consistently follows the evolutionary logic of “technology foundation—scenario validation—ecosystem expansion,” realizing the evolution of green value from isolated breakthroughs to systemic empowerment.

Green Service Achievements

Energy Technology

The company has invested in and operates a total of 94 new energy power station projects, with a cumulative installed capacity of 697.15 MW.



Zhongxiangying Technology

Launched 15 green service projects, including smart energy systems and safety and environmental management platforms.



Smart engineering medicine

Improved medical resource allocation through online diagnosis and treatment, green channels, and other services.



National Green and Smart Technology Innovation Demonstration Park

BOE's Near-Zero-Carbon Park Demonstration Project was proposed by the National Energy Conservation Center and approved by the National Development and Reform Commission. The project uses energy-saving technologies including ground-source heat pumps coupled with cold and thermal storage, air-source heat pumps integrated with solar water heating systems, and integrated photovoltaic canopies and rooftop photovoltaic systems, establishing a smart energy management platform to enable source-grid-load-storage coordination, achieving approximately 52% energy savings and 37% emission reductions. The project received national awards establishing a replicable and scalable model for zero-carbon development.

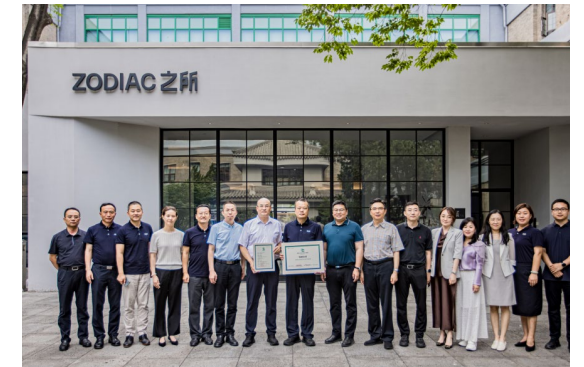


● Near-Zero-Carbon Park Demonstration Project



BOE Technology Services' "Zodiac 744" Project Receives 'Low-Carbon Space' Certification

"Zodiac 744", located in Beijing's UBP Hengtong International Business Park, is a multifunctional space integrating brand exhibition, business exchange, event launches, and smart conferencing. BOE Technology Services leverages advanced smart space products and a green technology system to create a high-quality environment that is healthy, comfortable, energy-efficient, and low-carbon. By employing integrated solutions including efficient lighting systems and renewable energy generation, the space achieves a 38.94% reduction in carbon emissions. The project was successfully recognized in the first batch of the China Building Energy Efficiency Association's 2025 Zero-Carbon Space Certification program, demonstrating the technology services business's leading role and professional competence in building green and low-carbon spaces.



Supply Chain Extension: Expanding Green Value Chain Synergies

A green supply chain is a critical foundation for corporate sustainability and a key link in driving the collaborative upgrade of industrial ecosystems. According to a report by the United Nations Global Compact, supply chains account for as much as 60% of global greenhouse gas emissions, making supply chain emission reductions critical for corporate green and low-carbon transition. BOE fully recognizes the importance of green supply chains and is committed to advancing their green transformation, integrating green supply chain development into its overarching green development strategy¹.



Optimizing the Green Supply Chain

BOE consistently treats green supply chain development as a strategic priority, regarding it as a key enabler for advancing green development and enhancing core competitiveness. By partnering with supply chain stakeholders to build a green development community, BOE not only injects enduring green momentum into its operations and strengthens the ecological foundation for high-quality development, but also stimulates green transformation throughout the industrial chain, contributing to industrial green transformation, achieving the "Dual Carbon" goals, and promoting ecological civilization. This reflects the responsibility of a technology leader in the new era.

Building a comprehensive green supply chain system

BOE is reshaping its supply chain's environmental responsibility framework through institutional innovation. At the supplier onboarding stage, it implements a tiered audit mechanism, incorporating environmental compliance and hazardous substance control into supplier selection criteria. Through legally binding commitments, international certifications, and traceability systems, BOE ensures that the entire raw material procurement process complies with ethical and environmental standards. During operations, BOE innovatively implements a dynamic performance evaluation model, making green management capability a key performance indicator (KPI), with a focus on guiding suppliers toward continuous breakthroughs in clean energy transition and carbon certification. This governance system, which spans the entire cooperation lifecycle, strengthens risk prevention at the source while driving the entire supply chain toward greener practices through assessment and incentive mechanisms.

¹Note 5: UN Global Compact - *Supply Chain Sustainability - A Practical Guide for Continuous Improvement*.

Sharing knowledge and technological collaboration

BOE has built an open ecosystem for green empowerment.. First, it has established a multi-level capability-building platform, deepening suppliers' understanding of environmental governance through initiatives ranging from basic compliance training to cutting-edge interpretation of "Dual Carbon" standards. Second, it has pioneered a new model of technology sharing by sharing core low-carbon technologies through an industry-level patent pool, significantly lowering the barriers to green transformation for small, medium, and micro enterprises. At the same time, BOE is advancing material recycling and logistics innovation, establishing large-scale use of recycled materials and new-energy transportation as standard practices throughout the supply chain, ultimately forming a sustainable development model that deeply integrates knowledge sharing, technology dissemination, and industrial application.



Carbon Management System Driving Deep Decarbonization Across the Supply Chain

During the 14th Five-Year Plan period, the company gradually established and optimized a green supply chain management system, carried out carbon inventories and special green and low-carbon cooperation initiatives, built consensus with partners, and guided the upstream supply chain toward green and low-carbon development. In 2021, it took the lead in launching a baseline survey of supply chain carbon emissions, conducting a three-year tracking of greenhouse gas emission data from over 100 core suppliers, thereby providing foundational support for achieving the "dual carbon" goals. In 2022, "dual carbon" management was mandatorily incorporated into supplier CSR assessments, elevating this initiative into a binding cooperation standard. By the end of 2025, the number of key material categories under carbon inventory control had expanded from 5 to 10, and the number of covered suppliers increased from 240 to over 440. A digital carbon management platform was established, leveraging digital and intelligent technologies to build an end-to-end supplier carbon emission management solution. Through functions such as automated data collection and intelligent verification, multi-dimensional analysis and assessment, as well as target setting and process control, the platform has significantly enhanced the scientific rigor and efficiency of supply chain carbon management.

from 2024 to 2025



Over **50** low-carbon projects were implemented, achieving carbon emission reduction of **34,700** tCO₂e.



Green Technology Sharing Platform Breaking Industry Barriers

In late 2023, BOE and its partners established the industry's first green technology sharing platform. The seven initially opened patent domains serve as a 'green technology resource pool,' offering free access to small and medium-sized enterprises to help them overcome challenges in low-carbon transformation. The platform covers key technologies including energy and power and recycled materials, and introduces a pioneering patent pool operation model. In 2024, the platform's ecosystem continued to expand, with two new partner companies and 158 advanced patents in human-machine interaction and smart healthcare rapidly entering the market through streamlined licensing procedures, shifting supply chain green innovation from isolated advances to collaborative progress.



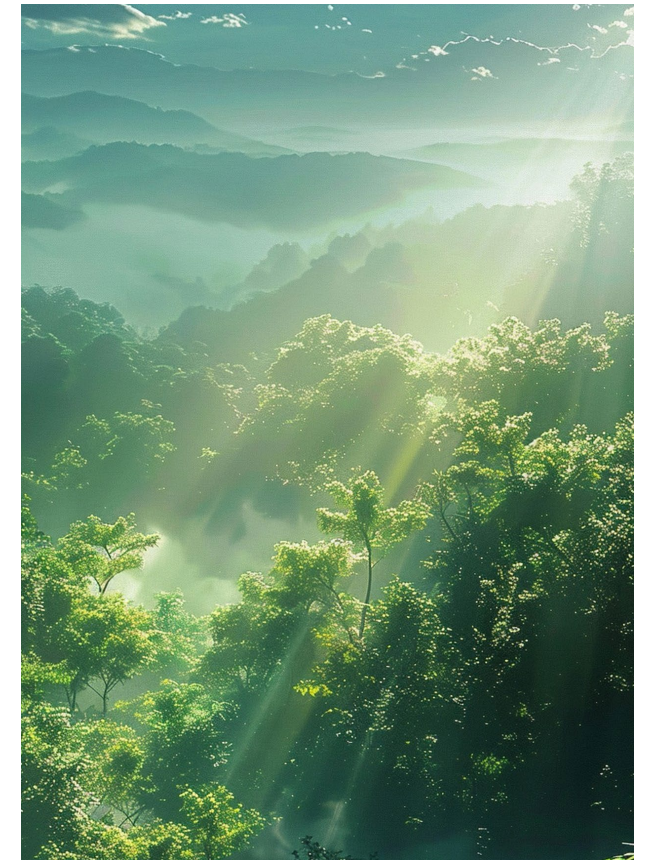
Hosting 2025 BOE & Supplier "Green Chain Together" Exchange Meeting to Jointly Build a Green and Sustainable Supply Chain

In 2025, BOE hosted the "Green Chain Together" exchange meeting, inviting over 40 high-carbon-emission suppliers to discuss green supply chains, carbon emissions accounting, and emission reduction case studies. The event highlighted BOE's achievements in its carbon peak and carbon neutrality initiatives and future action plans, aiming to collaborate with partners on low-carbon transformation and the joint construction of a sustainable supply chain ecosystem.



Green Sharing: Expanding the Reach of the Green Ecosystem

BOE leverages green finance, standard setting, and collaborative R&D as three strategic pillars to build a green ecosystem spanning the entire industrial value chain. In green finance and investment, the group leverages capital as a driving force, focusing on key sectors including new energy power plants, energy storage systems, and perovskite photovoltaic technology, accelerating the low-carbon transition of the display industry through innovative financing and governance. In green standard development, BOE plays an active role in formulating domestic and international technical standards, setting industry benchmarks through standards for display panels and carbon-neutral technologies, elevating Chinese practices to global standards. In green collaborative R&D, BOE collaborates with international organizations, academic institutions, and industrial partners, leveraging SBTi certification and industry-university-research alliances to achieve technological innovation and improve transparency. These three initiatives reinforce one another, strengthening BOE's sustainable development capabilities while extending green impact throughout the upstream and downstream ecosystem through resource collaboration, standard export, and low-carbon technology diffusion, delivering systemic solutions for the green transformation of the global manufacturing sector.



Fostering Green Finance and Investment

Green finance and investment is BOE's core driver in supporting the national "Dual Carbon" strategy and building a sustainable development ecosystem. By aligning environmental goals with capital allocation, BOE focuses on new energy power plants, energy storage facilities, and perovskite photovoltaic technology, dedicated to advancing the green transformation of the industrial chain.

During the 14th Five-Year Plan period, BOE invested a cumulative total of over RMB 300 million in energy-saving technical upgrades, green electricity procurement (premium over thermal power), carbon compliance, external consulting, and certification fees. At the current stage, BOE has begun to see initial results in the field of green finance. For example, under the in-depth Beijing-Inner Mongolia collaboration framework, one of the first key projects co-developed by the Beijing Economic-Technological Development Area and Sonid Right Banner, Inner Mongolia, is a pastoral-solar-storage integrated photovoltaic power station covering approximately 7,000 mu, with a total installed capacity of 200 MW. The project includes a 42.5MW/85MWh energy storage system configured at 21% of the installed capacity with a 2-hour discharge duration, one 220kV step-up substation, and is connected via a single-circuit 220kV transmission line to the nearby 500kV Sonid Substation. Once operational, the project will generate approximately 400 million kWh of electricity annually, reducing CO₂ emissions by about 250,000 tons per year. In addition, BOE Energy Technology completed a forest and grassland carbon sink agreement covering 4 million mu with the People's Government of Chahar Right Rear Banner, Ulanqab City, delivering verified emission reductions of over 280,000 tons and a total reserve of 1,900,000 tons of carbon sink resources. BOE has advanced its green investment strategy with projects in solar and wind power, energy storage, EV charging, and energy efficiency. BOE Energy Technology has invested in and operates 94 new energy power station projects with a total installed capacity of 697.15 MW. In zero-carbon services, it has provided green certificate and carbon reduction services to many leading enterprises and their suppliers, building clear service and first-mover advantages.



Engaging in Green Standard Development

Green standards are a core lever for driving industrial green and low-carbon transformation, standardize market practices, and enhance environmental performance. BOE regards active participation in green standard development as a strategic cornerstone for fulfilling its green development commitments and advancing the industry. This demonstrates BOE's commitment and ensures its technological roadmap aligns with policy and market needs, seizing the initiative in green development, and strengthening core competitiveness.

To strengthen the foundation of organizational management, BOE prioritizes governance in green standard development, encouraging each business unit to establish, at the appropriate time, a green standard governance framework tailored to its operational needs. In response, business units have actively advanced the establishment and implementation of green standard governance frameworks. As a pioneer in BOE's green standards initiatives, BOE Energy Technology has established a clear and structured management system, with a three-tier 'Leadership-Management-Execution' structure enabling efficient operations. The leadership level is composed of a Standardization Leadership Group responsible for overall coordination and advancement of standardization work. The management level comprises five specialized teams: the Standards Management Team, responsible for strategic research and the implementation of standardization initiatives; the Green Power Technology Standards Team, the Energy Efficiency Technology Standards Team, the Energy Trading Standards Team, and the Net-Zero Technology Standards Team, each acting as the technical focal point for planning and reviewing specialized standards in its field. The execution level comprises dedicated personnel responsible for drafting standards, cross-departmental coordination, and execution of standardization processes.

In terms of strategic direction, BOE Group provides overall strategic guidance to its business units, charting a course that combines strategic vision with long-term value creation, while each business unit formulates its specific strategic direction based on its distinct business characteristics. During the 14th Five-Year Plan period, Energy Technology took the lead in establishing three major technical standard directions: first,

developing maturity evaluation standards for scenarios like zero-carbon factories, parks, and buildings; second, developing specialized technical specifications to support green and low-carbon transformation in high-emission sectors such as electronics manufacturing, steel, and chemical industries; third, focusing on the core domain of zero-carbon digitalization and intelligentization, building a technical standards system covering intelligent monitoring, IoT sensing, big data analytics, and AI algorithms.

During the 14th Five-Year Plan period, BOE has cumulatively published over 30 green-related standards, establishing a coordinated framework for domestic and international advancement. At the group level, it has led or participated in the formulation of a series of standards, including national standards, industry standards, local standards, and group standards in China, with content focused on green manufacturing and assessment systems for display panels. Meanwhile, the Group is actively enhancing its voice in international standardization by dispatching experts to participate in the AHG20 ad hoc working group under the IEC Electronic Display Technical Committee, playing a key role in the development of the technical report (PWI TR) on *Quantification Method for Greenhouse Gas Emissions of Electronic Display Devices*. At the Energy Technology business unit level, it has also participated in the drafting of multiple domestic standards, including national standards, industry standards, and group standards. It is now accelerating its deep breakthroughs into areas such as zero-carbon factory evaluation norms, user-side energy aggregation management for virtual power plants, and the digital construction of zero-carbon parks, continuously strengthening its industry influence.

During the 14th Five-Year Plan period, the standards involved in the participation are as follows:

Type	Standard Name	Standard Number
National standard	Specification of green supply chain management for manufacturing enterprises in electronics information industry	GB/T 41505-2022
	Minimum allowable values of energy efficiency and energy efficiency grades for displays	GB 21520-2023
	Green product assessment - Computers	GB/T 44443-2024
Local standard	The norm of energy consumption per unit production of liquid crystal display devices	DB11/T 982-2022
Local standard	Assessment requirements for green factory in liquid crystal display(LCD) panel manufacturing industry	SJ/T 11882-2022
	Guidelines for risk assessment of hazardous substances in electrical and electronic products	SJ/T 11467-2022
	Technical specification for electronic display device manufacturing diagnostic of energy-saving	SJ/T 11951-2024
	Technical specification for monitoring greenhouse gas emissions in electronic industry	SJ/T 11998-2025
Group standard	Product life cycle assessment technical specification - microcomputers (product type rules)	T/GDGM 0017-2021
	Technical specification for carbon footprint evaluation of mini LED display devices	T/SQIA 084-2024
	Technical requirements for carbon footprint assessment of organic light emitting diode (OLED) display	T/SQIA 083-2024
	Quantification methods and requirements for product carbon footprint of greenhouse gases - Smartwatch	T/CESA 1353-2024
	Quantification methods and requirements for product carbon footprint of greenhouse gases - Conference screen	T/CESA 1358-2024



Deepening Green Collaborative R&D

Collaborative green R&D is a core driver of BOE's pursuit of its sustainability goals. Through collaboration with global industry associations, academic institutions, and industrial chain partners, BOE continues to achieve breakthroughs in green technological innovation and pathways for low-carbon transformation. In the current context of the accelerated global push toward carbon neutrality, deepening collaboration in this area not only helps overcome bottlenecks in environmental technology and reduce the environmental impact throughout the product life cycle, but also enhances supply chain resilience and opens up opportunities in emerging markets, injecting green momentum into long-term competitiveness.

BOE actively engages with international green and low-carbon initiatives and joins relevant organizations. By the end of 2025, nine of BOE's display manufacturing sites have successfully joined the Science Based Targets initiative (SBTi). Chongqing BOE Smart Electronic System Co., Ltd. has officially become a member of the United Nations Global Compact (UNGC). Meanwhile, we actively participate in global environmental initiatives, such as the Green Facilities International Forum hosted by international association.

To ensure smooth communication with external stakeholders, BOE has established an effective mechanism for collecting information, proactively gathering data through channels including email, surveys, and stakeholder websites, and is committed to maintaining open and transparent communication channels. At the same time, BOE attaches great importance to transparency in sustainability information, publishing comprehensive sustainability reports on an annual basis and, drawing on practical experience, issuing a dedicated white paper on low-carbon development in the display business, disclosing to stakeholders the measures implemented and results achieved in green and sustainable development.



Establishing a Joint Laboratory with a University to Tackle Green Display Technology

The Xijing-Since Optoelectronic Materials Joint Laboratory, jointly established by Xijing University and Beijing BOE Since Technology Co., Ltd. ("Since Technology"), fully utilizes Since Technology's domestically leading optoelectronic materials R&D and manufacturing platform, combined with Xijing University's strengths in talent and infrastructure, to foster and introduce high-level talent and industrialization projects. The laboratory conducts high-end research and development and promotes the industrialization of products in areas such as new optical materials, new film materials, and display devices, establishing a specialized platform for the incubation and industrialization of optoelectronic materials achievements and for cultivating applied talents.

02

Deciphering the Top-Level Strategy, Embedding the Green Philosophy

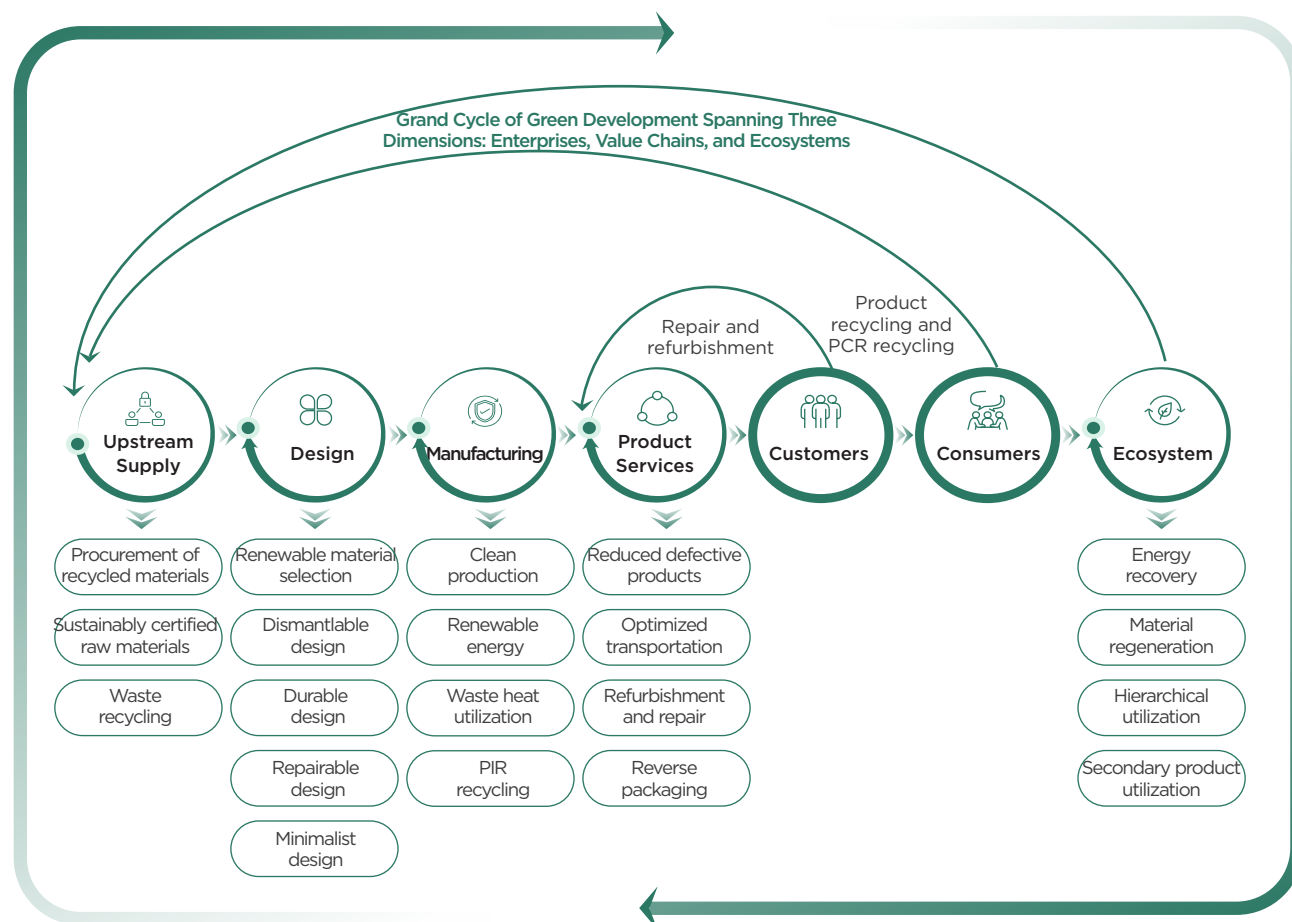
China's 15th Five-Year Plan Outline has made systematic arrangements for green transition and low-carbon development. The Ecological Environment Code has pioneered a dedicated chapter on green and low-carbon development, setting a legal bottom line for industrial development and pointing the way forward. On the basis of strictly abiding by statutory requirements, the 15th Five-Year Plan period also represents an important strategic window for enterprises to pursue green development to higher standards. As a global leader in the display industry, BOE's green development strategic planning is rooted in the 'Grand Cycle' concept and grounded in its sustainable development strategy. It not only represents a profound response to the nation's top-level strategy, but also a proactive choice for the company to lead industrial transformation and deeply integrate social responsibility with its development vision, demonstrating the responsibility and commitment of Chinese enterprises in promoting high-quality development of the green economy.

Embracing the Grand Cycle Concept, Shaping a New Landscape

The circular economy is a core national strategy to overcome resource constraints and foster green growth, and serves as a key pathway for promoting high-quality development and ecological civilization. It breaks away from the traditional linear 'take-make-dispose' model by unlocking resource value through efficient recycling. This represents both a core pathway for advancing ecological civilization and a profound transformation of socio-economic development models, guiding industries toward a future characterized by resource conservation and environmental sustainability.

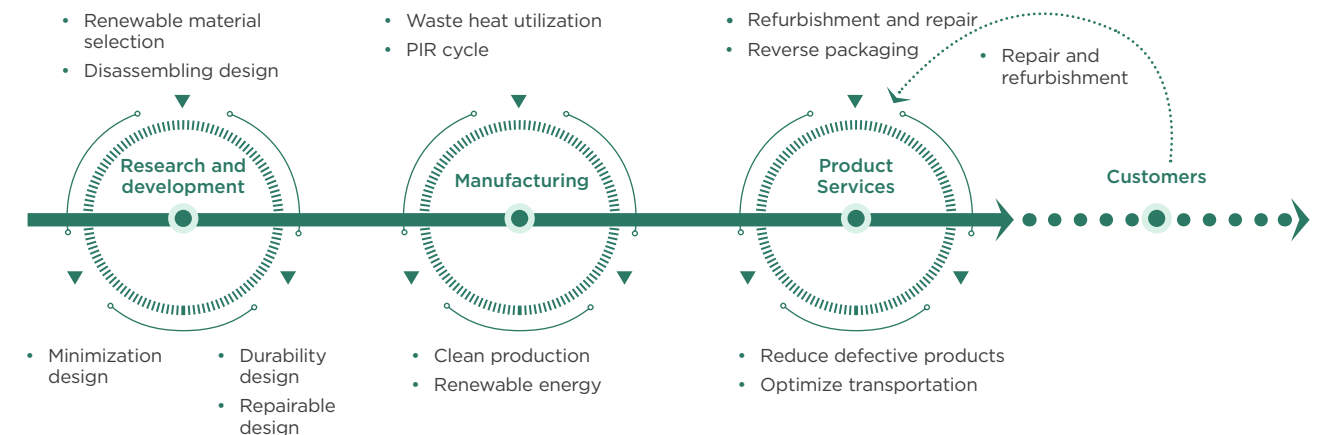
In this context, BOE's pursuit of a circular economy is not only a strategic imperative in response to national strategic initiatives and a proactive commitment to green development, but also an alignment with the green transformation trend in the display industry. It builds new competitive advantages through a green ecosystem and serves as an intrinsic requirement for deepening BOE's "Screen of Things" strategy, positioning BOE to secure future competitiveness. By 2025, building upon its sustained practice of circular economy principles, BOE introduced an industry-leading "Grand Cycle" development framework. Through conceptual innovation and practical exploration, this framework injects new momentum into green development, not only solidifying the foundation for BOE's own sustainable growth but also serving as a benchmark to propel the entire industry toward higher quality and greater sustainability. It contributes corporate wisdom and strength to the construction of China's circular economy system and the realization of national green development goals.

BOE has deeply embedded circular principles into its corporate DNA, innovatively establishing a "1 Grand Cycle + 7 Small Cycles" green development framework. This system comprehensively covers three dimensions: corporate operations, value chain collaboration, and ecosystem development. It integrates seven minor cycles - supply, R&D, manufacturing, services, customers, consumers, and ecosystems—to jointly build a grand green development cycle, creating a sustainable paradigm for efficient resource utilization.



Internal Operations Cycle

At its core, BOE has established an integrated internal cycle combining R&D, Manufacturing, and Product Services. This cycle embeds green principles into products through lifecycle-wide recyclable design in R&D, enhances green efficiency in manufacturing via resource-efficient circulation and clean production, and extends green value through lean storage and transportation in product services. This integrated approach fosters an endogenous green cycle within the enterprise, elevating BOE's resource efficiency and resilience while driving green innovation and long-term value creation.



Research and Development

In the R&D phase, BOE focuses on achieving full lifecycle recyclability for its products. Key priorities include modular design, enhancing product durability and repairability, and advancing lightweighting and material reduction to minimize usage. Continuous optimization of disassembly-friendly designs ensures products are easily separated and recycled at end-of-life, improving reuse and recovery rates. This phase is jointly advanced by R&D and strategic business units. Circular certification enhances product recognition, while building proprietary barriers in resource recovery R&D effectively strengthens the group's technological moat.

Manufacturing

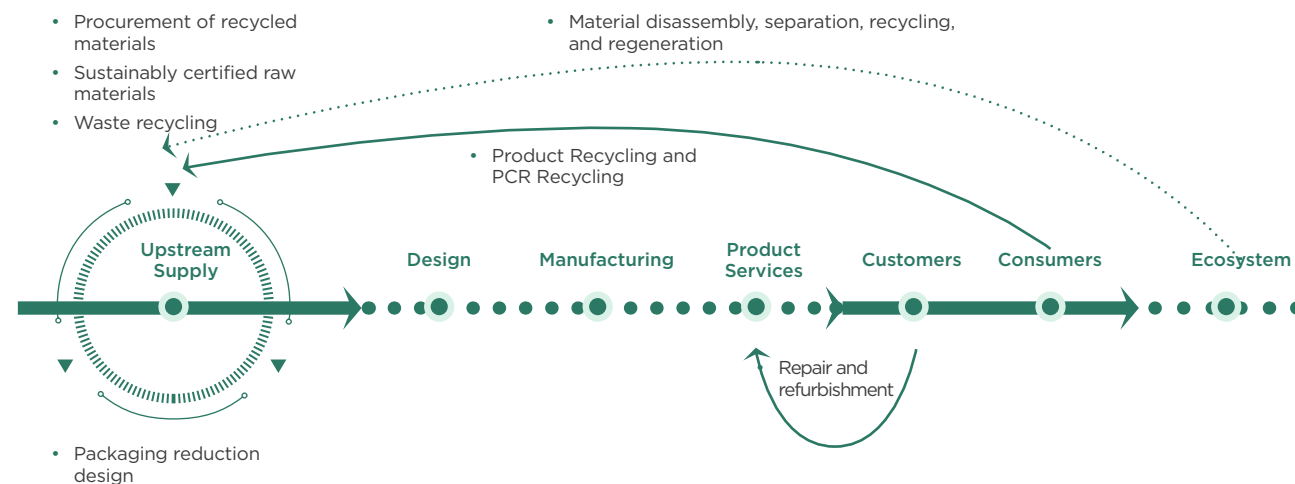
The Manufacturing micro-cycle aims for efficient circulation of energy and materials. This involves reducing waste generation by lowering consumption of energy, water, and hazardous chemicals; promoting cleaner production through renewable energy use; and advancing reuse via residual energy recovery and Post-Industrial Recycled (PIR) material cycles. Led by the manufacturing middle office, efforts focus on reducing hazardous waste disposal costs and ensuring compliance management while striving for industry-leading recycling rates of key production energy and resources.

Product Services

In the product service segment, BOE prioritizes building a lean storage and transportation system. This involves reducing defective products by improving quality inspection pass rates, minimizing packaging through green and renewable materials, and lowering carbon footprints by optimizing transport routes. Circular initiatives here are spearheaded by strategic business and supply chain organizations. Product remanufacturing creates a secondary revenue stream. Through packaging reuse and enhanced logistics efficiency, it achieves dual growth in asset value and operational effectiveness.

Value Chain Cycle

Within the Value Chain cycle, BOE fosters a symbiotic ecosystem connecting three nodes: upstream suppliers, clients, and consumers. This ecosystem creates a circular starting point through green resource management at the upstream supply end, reduces resource waste via service optimization at the client end, and forms a closed loop through end-of-life recycling at the consumer end. This builds an “industrial lifeline” for closed-loop resource flow, enabling efficient resource circulation and co-creation of value across the entire industrial chain.



Upstream Supply

In the upstream supply chain, BOE aims to reduce reliance on virgin resources and establish a circular material supply system. This is achieved by prioritizing recycled and sustainably certified materials, implementing electronic contracts and packaging reduction designs to minimize resource consumption, and establishing supplier waste recycling agreements to promote closed-loop resource circulation. This circular initiative, spearheaded by BOE’s supply chain organization, creates resource value by reducing virgin material procurement while significantly lowering overall raw material costs. This approach effectively enhances supply chain sustainability and corporate economic resilience.

Customer

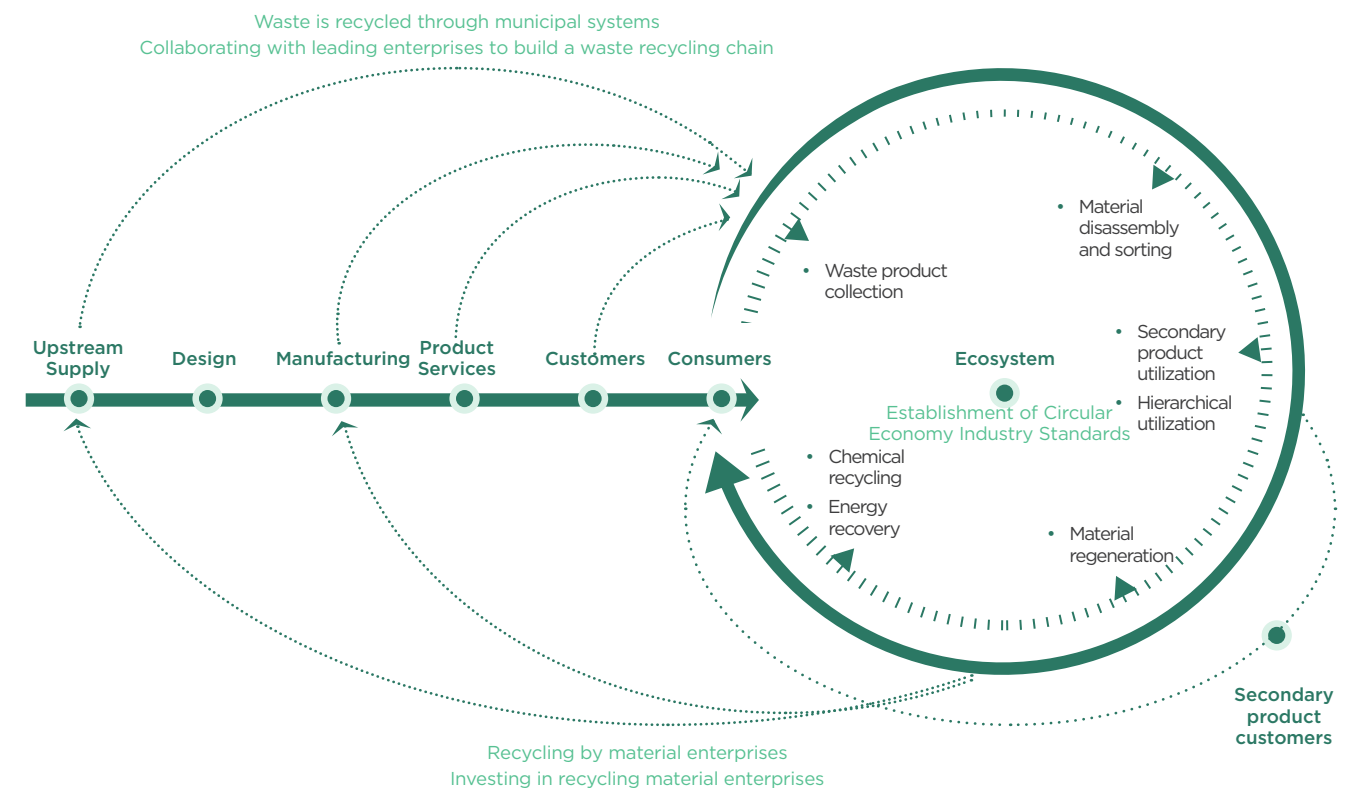
At the customer level, BOE seeks to minimize resource waste on the customer end and enhance its reputation as a responsible enterprise by providing professional repair and refurbishment services. By focusing on long-term client needs and minimizing redundant purchases, this circular initiative is jointly driven by BOE’s strategic business units and customer service department, turning after-sales service into a driver of higher customer satisfaction and contract renewal rates, demonstrating a responsible corporate ethos by delivering sustainable value to consumers.

Consumer

At the consumer level, BOE aims to extend product service life, stimulate the return of resources from end-users, and reinforce its image as a responsible enterprise. The group offers product repair services to prolong product lifespan and introduces product upgrade and trade-in programs along with recycling schemes to improve end-of-life product recovery rates, achieving end-of-life closure across the product lifecycle. This circular effort is spearheaded by BOE’s Green Recycling Task Force, driving trade-in sales via e-waste recycling, enhancing both brand value and reputation.

Ecosystem Cycle

At the ecosystem level, BOE transcends organizational boundaries and, from an industry-wide standpoint, promotes cross-sector collaboration to foster an open and symbiotic “Sustainable Development Community,” co-building a green, low-carbon circular ecosystem.



Ecosystem

At the ecosystem level, BOE seeks to establish cross-industry recycling networks and position itself as an industry leader by partnering with leading enterprises to formulate circular economy industry standards, investing in start-ups specializing in recycled materials, engaging in collaborations, and co-constructing recycling chains. This circular effort is led by BOE’s Green Recycling Task Force, utilizing both technology standard collaboration and equity investment to enhance both the industrial ecosystem’s value and business returns.

BOE has established an efficient resource recycling system based on the “Grand Cycle” concept, fully responding to national strategic priorities, industry trends, and the needs of corporate transformation. In terms of national strategy, since 2008, China has incorporated resource recycling into its strategic layout, advancing circular economy initiatives. Relying on its core technological advantages, BOE has transformed the national circular economy concept into corporate strategy and concrete actions, providing pioneering industrial impetus

toward achieving the circular economy strategy and the nation’s “Dual Carbon” goals. Industrially, the Technology, Media, and Telecommunications (TMT) sector is resource-intensive. As global resources become increasingly strained, resource recycling has become an essential choice and future trend for sustainable development in the TMT industry. As a key participant in the TMT sector, BOE has extended circular economy practices across the full lifecycle of its products, providing a practical benchmark for the industry’s green upgrading. At the corporate transformation level, resource recycling acts as a key identifier of BOE’s green development, running through all topics of its green development strategic planning. The practical implementation of the circular economy concept effectively facilitates BOE’s comprehensive green transformation. BOE’s forward-looking ‘Grand Cycle’ strategy demonstrates its commitment to enhancing the green competitiveness of ‘Made in China’ through innovation, pioneering a new model of sustainable development.

Persisting in Sustainable Development and Pursuing Long-Term Win-Win Outcomes



Since BOE's founding in 1993, sustainability has been integral to BOE's DNA. From 'Displays Everywhere, Enriching Lives' to the 'Screen of Things' and the 'Nth Curve' strategic upgrade, each upgrade reflects a commitment to social responsibility. As global climate governance enters a crucial stage of intensive efforts, sustainability has evolved from an optional pursuit to a necessity that all organizations must address and scientific progress is seen as key to solving global challenges. As a global leader in the display sector and a forerunner in IoT innovation, BOE has elevated sustainability to a core group strategy, incorporating it into the group's regular operations. The group is committed to building and empowering an open and mutually beneficial global sustainable ecosystem for display technologies. At its core, this involves transforming the group's 'innovation gene' into enduring momentum for long-term development. Through collaboration with stakeholders such as shareholders, customers, employees, suppliers, and local communities, the group seeks to reshape production methods, forge partnerships, invigorate organizational vitality, consolidate the foundations of development, and advance sustainable value creation, promoting a harmonious future where economic, social, and environmental benefits are mutually reinforcing.

In 2025, BOE officially launched 'ONE' (Open Next Earth), the first sustainability brand in China's display industry, with three core brand concepts: Open, Next, and Earth. Open Convergence reflects BOE's foundational approach to sustainability and its global strategy. BOE adopts an open and inclusive posture, collaborating with global partners to co-create an integrated and symbiotic industrial ecosystem. Next-Generation Leadership reflects BOE's profound understanding of future trends and its unwavering commitment to sustained innovation. Guided by 'respect for technology and perseverance in innovation,' BOE takes a forward-looking approach to shaping the future, drives breakthroughs in display

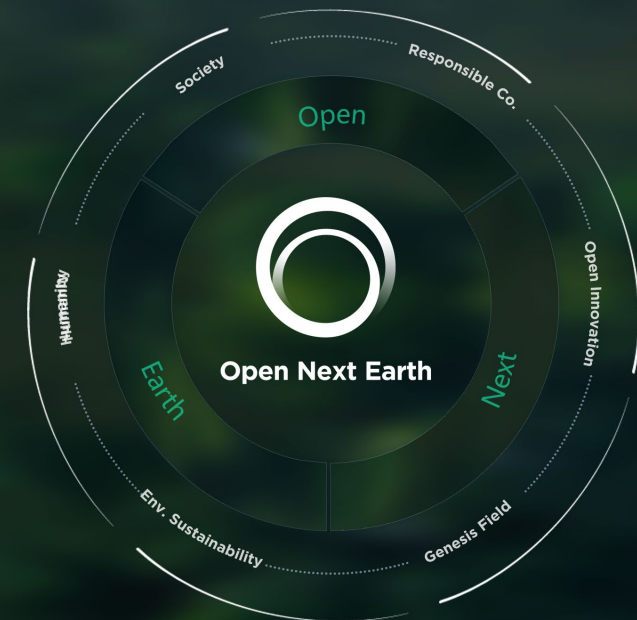
At the significant juncture marking the 20th anniversary of the United Nations Global Compact's introduction of ESG principles and the 10th anniversary of the Paris Agreement, global attention to sustainable development has reached new heights. This anchors a new era for corporate green transformation, spurring deep change from strategy to implementation—enterprises are reshaping their value logic with sustainable development as the core, embedding ecological responsibility into the very fabric of their strategies, and constructing sustainable development paradigms from a long-term perspective, demonstrating the broadened vision, mission, and value pursuit of enterprises in the new era.

technology, and redefines the value of technology through its "Screen of Things" strategy, enabling boundless possibilities for sustainable development. Everlasting Ecology reflects BOE's respect for and commitment to the Earth's ecological environment. BOE fosters a community in harmony with nature through green innovation and circular economy development, defining a new paradigm for harmonious coexistence between industry and nature, illustrating the harmonious integration of technology and nature, and promoting the sustainable coexistence of technology, ecology, and humanity. Together, these pillars embody BOE's philosophy: 'safeguarding humanity's future through open, innovative technology', signaling BOE's evolution from a 'leader in technological innovation' to a 'builder of sustainable ecosystems.' This underscores BOE's firm resolve to lead the global display industry in achieving sustainable growth and offers a model and reference for Chinese technology enterprises to practice ESG principles amid the evolving wave of globalization.

Meanwhile, guided by its vision of becoming a globally respected great enterprise, BOE has established a comprehensive, differentiated, and pioneering sustainability strategy. Guided by market-oriented, international, and professional development strategies, BOE assesses external trends and expectations while defining internal priorities and strategic directions. Centered on six strategic pillars: Open Innovation, ENV. Sustainability, Society, Humanity, Responsible Co., and Genesis Field for the future, BOE advances sustainable development through multiple core topics and a three-level enabling support system. Taking 'open innovation' as the primary driving force, BOE empowers the foundational capabilities for sustainable development, cultivates core competitiveness to lead society's transition toward sustainability, explores the N-th growth inflection point driven by sustainability, and continuously strengthens the group's core sustainable competitiveness.

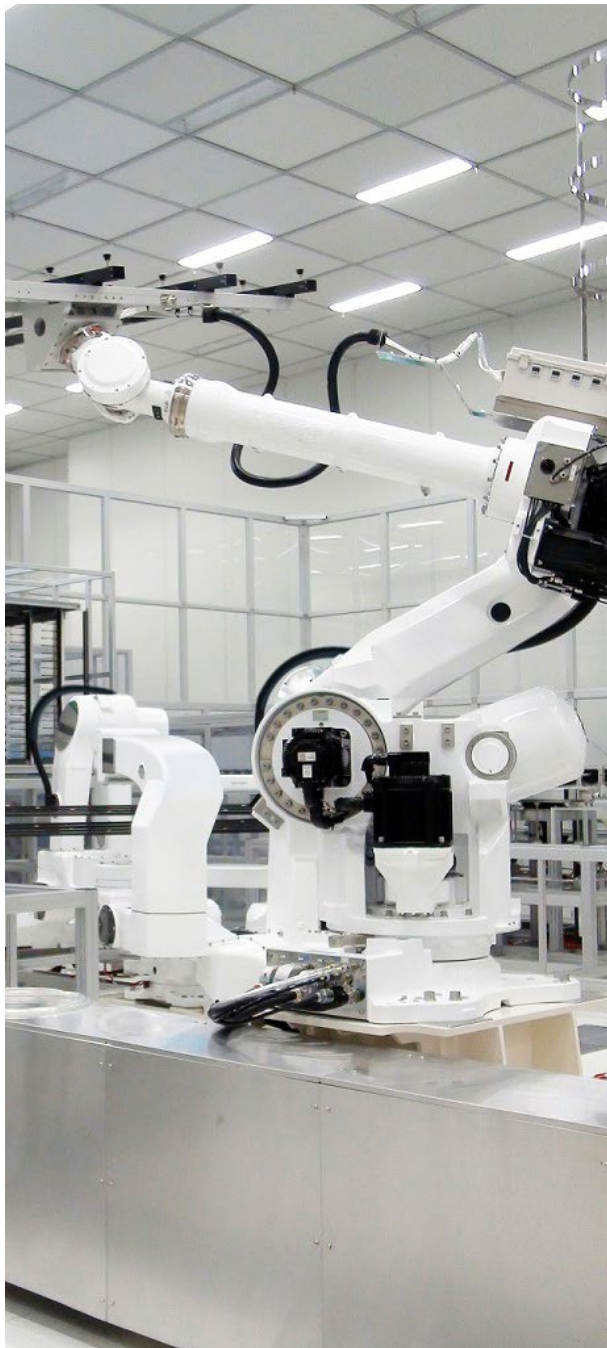
BOE Sustainability Strategy

**ONE (Open Next Earth):
The First Sustainability Brand in China's Display Industry**



BOE's sustainable development strategy pillars provide concrete support for its sustainable brand philosophy, adopting an open and inclusive approach to building an industrial ecosystem. Underscoring the fundamental values of win-win cooperation, humanistic concern, and compliant operations, BOE drives technological innovation through forward-looking strategic positioning, demonstrating strategic investment in the future. With a strong focus on environmental responsibility, BOE is defining a new model of symbiosis between industry and nature, achieving a win-win balance between environmental responsibility and business value. BOE is advancing its sustainability journey—from passively responding to policies and customer requirements to proactively meeting the expectations of stakeholders; from a focus on "Dual Carbon" to encompassing comprehensive environmental, social, and economic sustainability; from managing risks to creating opportunities; from decentralized, multi-pronged efforts across organizational units to a systematic, sustainability-driven organizational mechanism under strategic guidance; and from viewing sustainability as short-term cost expenditure to building long-term core competitiveness and sustainably profitable growth. This evolution will progressively transform BOE from a sustainability follower into a strategically aligned partner with its core customers, ultimately achieving BOE's transformation in sustainable value creation and becoming a dynamic force in advancing technology for good.

Deepening Green Strategy, Clarifying the Path Forward



Global climate change presents growing challenges and green and low-carbon development has become a global consensus and common goal. Global industrial and supply chains are increasingly emphasizing corporate green transformation, with stricter low-carbon requirements from standards and customers. Therefore, proactively formulating a systematic green development strategy and deeply embedding green development principles throughout the entire value chain, including R&D, production, and supply chain management, is no longer just a competitive differentiator, but an essential pathway and strategic foundation for ensuring stable business operations, strengthening its core position in the industrial chain, and achieving continuous growth in brand value.

As a global leader, BOE is a key force in China's new-type industrialization and realization of China's "Dual Carbon" strategy, shouldering the important mission of driving green transformation in the display industry through technological innovation and supporting the high-quality and low-carbon development of China's manufacturing sector.

BOE has deeply recognized that its green development strategy is not an additional task separate from its core display business, but a value-creation engine integrated with R&D, production, and supply chain processes. It is organically aligned with BOE's goal of becoming a leader in green transformation within the global display and IoT sectors, and represents a practical implementation of the national strategy for high-quality, low-carbon transformation of manufacturing. Therefore, guided by its overarching "Screen of Things" strategy, BOE continuously advances its "1+4+N+eco-chain" business layout and development while embracing the concept of a "Grand Cycle". Guided by the 'ONE' brand principle and its mission, BOE advances its sustainability strategy. With the environmental sustainability pillar as a foundation, BOE incorporates green elements into all relevant sustainability issues, embedding a green, low-carbon ethos into every facet of its "Screen of Things" strategy, thereby building a forward-looking, systematic, and implementable green development strategy. With the strategic vision of "Leading Green Development, Co-Creating a Better Life", BOE aims to become a global leader and benchmark in green transformation within the display and IoT industries for the 15th Five-Year Plan period. As a key strategic driver, it facilitates BOE's transformation from 'Technology Innovation Leader' to 'Sustainable Ecosystem Builder', demonstrating BOE's firm resolve to lead the global display industry in achieving green and sustainable growth.

Strategic Value

BOE actively advances a green development strategy with the core objective of seizing the opportunities of the times and generating multiple forms of value. This addresses national policy and mitigates compliance risks, as well as reflecting a forward-looking strategic perspective that anticipates global green and low-carbon development challenges through proactive planning to secure long-term competitiveness. Commercially, the strategy strengthens customer relationships by meeting their stringent environmental requirements, and to establish differentiated market advantages through the development of green product portfolios and solutions, thus reinforcing its leadership position in the industry. As a core enterprise in the industrial chain, BOE intends to implement its green development strategy to fulfill the role of a 'chain leader,' working with upstream and downstream partners to develop low-carbon supply chains and pilot projects, mobilizing ecological resources, enhancing market competitiveness and green brand reputation, promoting regional transition, and achieving commercial and social value.

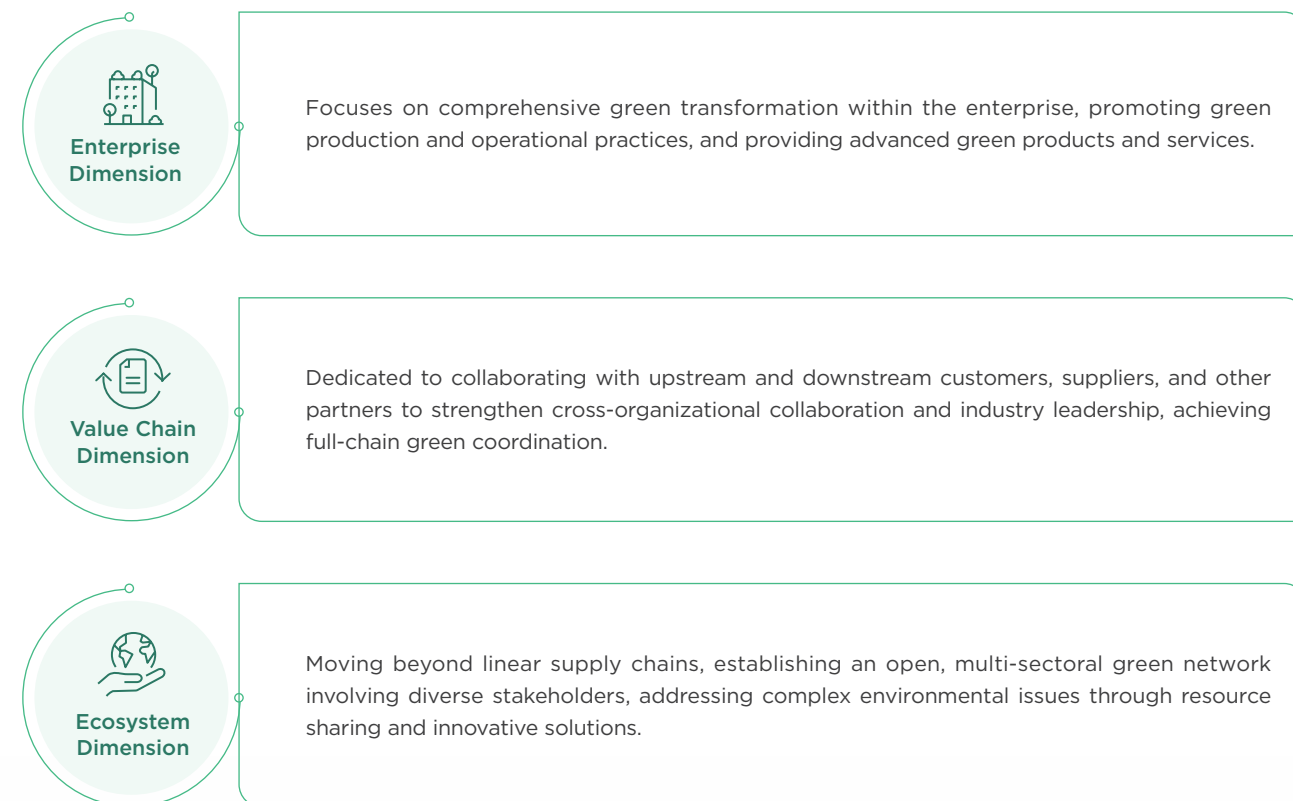
Strategic Rationale

BOE closely aligns with the State Council and ministerial guidelines on green development issued since the 14th Five-Year Plan period, benchmarks against international standards and sustainability rating systems, takes into account green requirements from downstream customers, and draws on leading practices from industry frontrunners to systematically identify priority issues in green development. Aligned with its own context, BOE establishes a strategic framework across three dimensions—Internal Operations, Value Chain, and Ecosystem—defining key priorities and providing direction.

Type	Policy/Standard Name
 National Policy	<i>The Ecological Environment Code of the People's Republic of China</i>
	<i>State Council, The 15th Five-Year Plan for National Economic and Social Development of the People's Republic of China</i>
	<i>State Council, The 14th Five-Year Plan for National Economic and Social Development of the People's Republic of China and the Vision for 2035</i>
	<i>State Council, Guiding Opinions on Accelerating the Comprehensive Green Transformation of Economic and Social Development</i>
	<i>State Council, Opinions on Comprehensively Promoting the Building of a Beautiful China</i>
	<i>The 14th Five-Year Plan for Industrial Green Development</i>
	<i>National-Level Green Factory Evaluation Standards, Green Design Product Standards, and Evaluation Index System for Green Supply Chain Management Enterprises in the Electronics and Electrical Equipment Industry</i>
	<i>China Securities Regulatory Commission (CSRC), Guidelines on Sustainable Development Reporting by Listed Companies</i>
	<i>Beijing Municipal People's Government, Implementation Opinions on Fully Building Beautiful Beijing and Accelerating the Modernization of Harmonious Coexistence Between Humans and Nature</i>
	<i>Beijing Municipal People's Government, 2025 Action Plan for Advancing the Building of Beautiful Beijing and Deepening Pollution Prevention and Control</i>
 International Standards and Assessment Frameworks	<i>International Sustainability Standards Board (ISSB), IFRS S1 and IFRS S2</i>
	<i>Global Reporting Initiative (GRI), GRI Standards</i>
	<i>Sustainability Accounting Standards Board (SASB), SASB Standards</i>
	<i>European Union, Corporate Sustainability Reporting Directive (CSRD)</i>
	<i>European Union, Eco-design for Sustainable Products Regulation (ESPR)</i>
	<i>Hong Kong Stock Exchange, Environmental, Social and Governance Reporting Code</i>
	<i>MSCI ESG Ratings</i>
	<i>S&P Global Corporate Sustainability Assessment (CSA)</i>
	<i>CDP (Carbon Disclosure Project)</i>

Strategic Analysis

BOE's green development strategy systematically establishes an action framework encompassing three major domains: corporate operations, value chain collaboration, and ecosystem co-creation, further broken down into six first-level themes and twelve second-level themes.



As the 15th Five-Year Plan begins, this strategy will lay a solid foundation for sustainable growth. Guided by systematic transformation and innovation, BOE will significantly enhance resource efficiency, reduce its environmental footprint, and emerge as a pivotal force driving the industrial chain's low-carbon transformation., make significant contributions to addressing climate change and building a Beautiful China marked by harmonious coexistence between humanity and nature, and ultimately establish itself as a global model for green technology and manufacturing.

Scope (3)	Tier 1 Topic (6)	Tier 2 Topic (12)
Enterprise	Climate Action	Responding to Climate Change
		Energy Conservation
	Resource Conservation	Water Conservation
		Pollution Prevention and Control
	Ecosystem Protection	Waste Recycling
		Biodiversity Conservation
Value Chain	Products and Services	Green Products
		Green Services
	Industry Leadership	Green Supply Chain Management
Ecosystem	Green Sharing	Green Finance and Investment
		Green Standards Development
		Green Collaboration and Research & Development

03

Charting a New Journey in Green Development for the 15th Five-Year Plan

As we enter the 15th Five-Year Plan period, BOE will closely follow the plans laid out in the 15th Five-Year Plan Outline and the requirements of the Ecological Environment Code. On this basis, the company will set more forward-looking green development goals and implement more stringent low-carbon strategic measures. BOE will deepen its green development strategy, mapping out low-carbon pathways with a holistic and systematic approach. We will formulate strategic layouts across three dimensions—internal capability building, industrial collaboration, and ecosystem value co-creation. Guided by strategic planning, safeguarded by enhanced management, and directed by clearly defined goals, we will enhance operational efficiency, collaborate with partners to reduce carbon emissions, and promote ecological mutual benefit and shared success, building lifecycle green competitiveness and consolidating the green foundation for high-quality development, assume a leading role in advancing the industry's green transformation, make positive contributions to realizing long-term environmental benefits and social value, and chart a new course for a future of harmonious coexistence between technology and ecology.

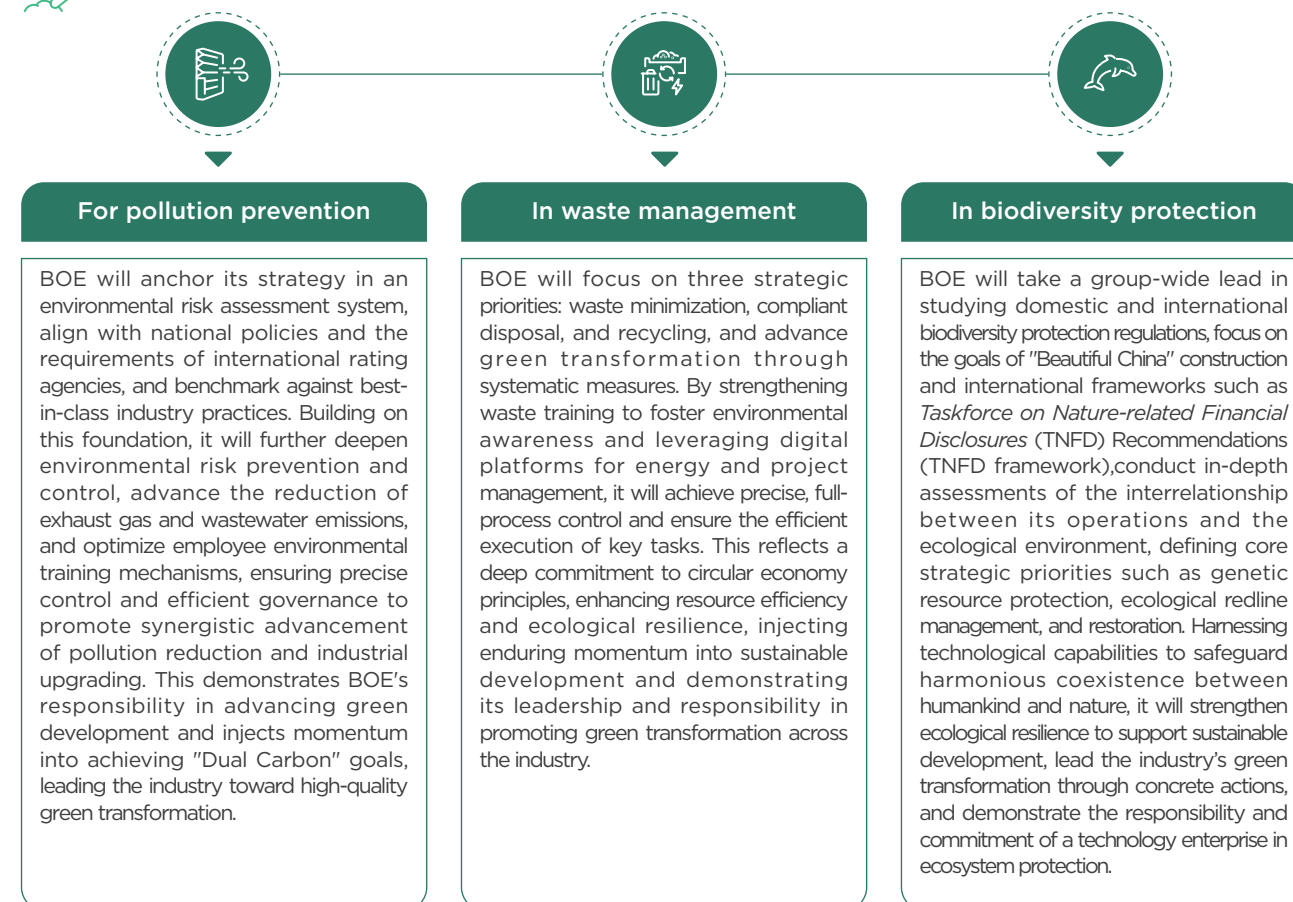
Enhancing Operational Management to Build a Green Core

Deepening green development in internal operations serves as a strategic imperative for advancing toward a low-carbon future. This not only represents proactive action on low-carbon transformation but also a critical move to reshape the core of development and build long-term competitiveness. By embedding green principles throughout the entire operational process, companies can enhance resource efficiency, reduce development costs, reinforce ecological foundations and demonstrate corporate responsibility, thereby providing sustained momentum for high-quality development and setting new benchmarks for green operations within the industry.

Governance structure serves as the foundational safeguard for the implementation of management measures. During the 15th Five-Year Plan period, BOE will develop and refine differentiated management structures tailored to the nature of key issues. For topics like climate, pollution, waste, energy, and water, the Group's "Dual Carbon" Project Team will exercise centralized oversight, and each business sector will implement the Group's directives, establishing an integrated management mechanism that connects the Group with its business sectors. For green products and green services, BOE employs a lightweight management approach, fully empowering each business sector to establish management structures tailored to their specific characteristics, in line with the distinct features of different business lines.

In the future, BOE will take comprehensive improvement of environmental quality at its operating sites as a key objective for ecological conservation, take significant enhancement of resource utilization efficiency as its resource conservation objective, take continuous reduction of carbon emission intensity as its climate action objective, and take leading the industry's green transformation as its goal for products and services. It will drive the implementation of strategic priorities and key initiatives across all areas, redefine its value creation model, inject green impetus into its high-quality development, and realize its green vision for the '15th Five-Year Plan' period.

Ecological Conservation



Target Item	2030 Targets
Red-line targets for general and above-level sudden environmental incidents	Zero general-level or above environmental emergencies.
Coverage rate target for environmental management system certification	100% of production-type operational sites obtain environmental management system certification
Absolute value targets for emission concentrations of various pollutants in exhaust gases	Absolute value targets (mg/m ³) meeting local exhaust pollutant emission standards at production sites
Absolute value targets for emission concentrations of various pollutants in wastewater	Absolute value targets (mg/L) meeting local wastewater pollutant discharge standards at production sites
Target for the number of waste certifications	Five factories/enterprises obtain waste management certification
Target for comprehensive utilization rate of hazardous waste	Hazardous waste comprehensive utilization rate of 96% in the manufacturing sector

Climate Action

With the launch of the 15th Five-Year Plan, the "three-step approach""Dual Carbon" strategy has entered a critical phase. Building on achievements during the 14th Five-Year Plan period in addressing climate change, BOE will conduct in-depth benchmarking against national policies and the climate change-related requirements and guidance of domestic and international rating agencies, and drawing on best practices from industry leaders in climate change mitigation and adaptation. We will continue to advance greenhouse gas emission reductions, promote green lifestyles and cultivate a low-carbon culture, comprehensively enhancing digital platforms for carbon footprint, energy, and energy-saving and emission reduction project management, driving green transformation and sustainable development, and realizing dual green value for both society and the economy.



Target Item	2030 Targets
Carbon Emission Intensity Reduction Target	Reduce carbon emission intensity (Scope 1 and Scope 2) by 30% from the 2021 baseline
Carbon Emission Reduction Target	Reduce total carbon emissions (Scope 1 and Scope 2) by 15% from the 2021 baseline

Resource Conservation

In the area of energy conservation



BOE will implement energy-saving measures in a phased manner. From 2026-2027, BOE will identify key priorities and formulate plans by aligning external regulations with internal practices. From 2028 to 2030, BOE will continuously promote energy-saving actions by deploying energy-efficient technologies and increasing the use of renewable energy, enhancing waste heat/pressure recovery, and promoting green building development, focusing on retrofit projects and prefabricated construction. BOE will also enhance capacity-building through energy management training and enhance the efficiency of energy and project management via digitalized platforms. These initiatives will effectively drive progress in BOE's energy conservation and emissions reduction, contributing to the transition toward a low-carbon economy and advancing green and sustainable development.

In the area of water conservation



by 2030, BOE will define its water conservation strategy based on water resource and water risk assessment systems, aligning with national policies and international rating agency requirements, and benchmarking against industry leaders. Based on this, BOE will continue to conduct water resource and water risk assessments to identify risks associated with water use and potential for improving water efficiency. Meanwhile, BOE will actively implement water conservation and water recycling measures, enhance efficiency through targeted training, and develop and optimize digital water management platforms, ensuring the steady advancement of water conservation initiatives, contributing to green development and positioning BOE as a leader in industrial water resource management.

Target Item

2030 Target

Renewable Energy Usage Share Target	Achieve a 25% share of renewable energy usage
Green Manufacturing System Certification Target	Achieve green manufacturing system certification for 29 enterprises
Industrial Water Reuse Rate Target	Industrial water reuse rate at display device factories reaches 96%

Products and Services

In terms of green products

BOE will focus on low power consumption, recyclability, and low emissions across the entire product lifecycle, promoting the design and application of green products, materials, and packaging. By addressing low-carbon design, low-carbon material selection, and end-of-life low-carbon treatment, BOE will establish a development roadmap for green products and materials. For green packaging, BOE will focus on reduction and recyclability, formulating and implementing strategies to advance sustainable packaging. Through these strategies, BOE will further enhance the environmental friendliness of its products, facilitate the transition toward a low-carbon economy, and contribute to global green industry development.

In the domain of green services

BOE will continuously deepen its green service strategy research and drive innovation and transformation in green sectors. Leveraging green service experience gained during the 14th Five-Year Plan period, BOE will conduct in-depth analyses of green service models within the industry and leading international practices, assess the Group's current green service models, and explore the viability of innovative service models. BOE will focus on smart green parks, digital healthcare, low-carbon platforms, green manufacturing solutions, and third-party resource management, advancing green development and strengthening BOE's competitiveness in green services.

Target Item

2030 Targets

Packaging Reuse Rate Target	Achieve a 100% packaging reuse rate for key display business customers by 2030
Green Service Expansion Target	Launch seven new green service projects by 2030

Collaborating with industrial partners to build a value network

BOE recognizes that a healthy, stable, and sustainable green supply chain is essential for the long-term and sustainable development of enterprises. Advancing the green supply chain is a strategic imperative for growth and a core initiative to lead ecosystem upgrades. It represents a concrete demonstration of fulfilling ecological responsibilities and a key step toward building sustainable competitive advantages and establishing a new paradigm for green supply chain collaboration.

During the 15th Five-Year Plan, BOE will regard green supply chain management as the core pathway to value chain carbon neutrality. By establishing a management system encompassing supplier onboarding, production collaboration, logistics optimization, and circular regeneration, BOE will systematically reduce the environmental footprint of its industrial value chain. Guided by the three principles of low carbon emissions, harmlessness, and low resource consumption, BOE will continuously enhance collaborative innovation with suppliers in areas such as green design, green production, green logistics, green circularity. Supported by institutions, incentives, and digital tools, BOE will provide replicable value chain decarbonization models to the industry.

Strengthening the foundation of green supply chain management through institutional mechanisms

BOE will develop and improve forward-looking green supply chain management regulations, systematically prioritizing key management areas. We will focus on greenhouse gas emissions and energy consumption, water resource management, pollution prevention, and waste management across the supply chain, gradually integrating the use of green materials, recycling and reuse, and green transportation and logistics into core management domains. By establishing a comprehensive yet prioritized framework, BOE aims to integrate green principles at the strategic origin across the supply chain lifecycle, laying a solid institutional foundation for the development of an efficient, clean, and sustainable modern supply chain and pioneering a new direction in green supply chain management across the industry.

Stimulating suppliers' green development through performance assessment

BOE will enhance green supplier selection, oversight, and tailored training to improve suppliers' green capabilities. By clearly defining performance evaluation criteria in areas including management organization, green design, production, logistics, circular economy practices, and carbon management, and closely linking assessment outcomes to business cooperation, we aim to encourage suppliers to strengthen their internal green development initiatives.

Driving a data-enabled smart carbon management ecosystem in the supply chain

BOE has built a supplier carbon management platform, using digital technologies to create an end-to-end emissions management solution. During the 15th Five-Year Plan (2026 - 2030), BOE will continue optimizing its integrated, digital supplier carbon management platform, transforming previously fragmented and opaque carbon data into clear, transparent management indicators. This will enhance transparent oversight of supply chain sustainability performance, enable supplier partners to carry out independent carbon inventory and emission reduction planning, and jointly build a smart, data-driven, and collaborative carbon management ecosystem, moving toward a digitally enabled future of supply chain carbon neutrality.



To advance the implementation of key strategic initiatives for green supply chains, BOE has established quantitative targets for the continuous reduction of carbon emissions from key suppliers, with the goal of building an industry-leading green supply chain system and promoting low-carbon collaboration throughout the industrial chain.

Target Item	2030 Target
Key Suppliers' Carbon Emission Reduction Target	Using 2025 as the baseline year, committed to achieving a 10% reduction in emissions from key suppliers by the end of the 15th Five-Year Plan (2030).

Pooling ecosystem strengths to jointly create a green future

Building a green ecosystem is a strategic lever enabling enterprises to transcend developmental boundaries and drive green industrial transformation. By integrating cross-sector resources and collectively addressing green transformation challenges, we can inject vitality into projects and accelerate ecological value creation. This not only reflects a corporate commitment to openness, collaboration, and shared benefits, but also promotes the development of a green ecosystem characterized by resource sharing and value co-creation, paving new pathways and setting new benchmarks for sustainable industry.

During the 15th Five-Year Plan, BOE will continue to promote green co-sharing initiatives, further disseminate and apply green development outcomes in green finance and investment, green standard setting, and green collaboration and R&D, and support a green transformation of society.

In terms of green finance and investment

BOE will continue to deepen strategic research on green finance and investment directions. In 2026 - 2027, we will carry out in-depth studies of sector-wide green finance policies and best practices, assess alignment of Group businesses with green finance opportunities, focusing on carbon trading, and green bonds, and define strategic directions for green finance and investment. By 2030, we will further enhance innovation in green financial instruments, build an integrated investment ecosystem encompassing green credit, carbon asset development, and synergistic industrial funds, and strengthen low-carbon influence across the entire display industry chain.



Regarding green standard setting

BOE will, under the leadership of its R&D department, undertake strategic research into key priority areas. By analyzing gaps in industry standards and the Group's technological advantages, BOE will prioritize involvement in the development and revision of international, national, industrial, and local standards, formulate BOE's own standards for carbon emissions and product carbon footprint accounting, thereby clarifying BOE's strategic direction in green standard development and actively participating in the creation and release of international, national, industry, and local standards.



In green collaborative R&D

BOE will conduct strategic research into key priorities. By conducting a comprehensive assessment of potential partner institutions, such as universities, research institutes, and enterprises across the industrial chain, and analyzing the Group's technological advantages, BOE will focus on association collaborations, industry-university-research integration, green business models, circular economy models, and PCR (Product Carbon Reduction) models to clarify its strategic direction in this area. By 2030, BOE aims to establish partnerships with at least five additional green partners, optimize the processes for green collaboration and R&D, establish a collaborative R&D platform, and launch at least one major collaborative project under the PCR model.





Envisioning a Green Future Calling for Action in Our Era

BOE recognizes that green development is the defining imperative of our era and the cornerstone of long-term corporate sustainability. Looking ahead, we remain committed to advancing our dual-driven “technology + ecosystem” strategy, promoting green transformation at higher levels and on a broader scale.



In our operations, BOE will deepen green innovation and forge new frontiers in competitiveness.

We will continuously upgrade our green manufacturing system, positioning technological innovation as the core driver of efficiency gains. By leveraging AI, we will integrate big data into climate, energy, water, and waste systems to advance efficiency, savings, and circularity. Green product design and development will fully integrate life-cycle considerations, strengthening core strengths including low power consumption, use of renewable materials, and carbon footprint management, delivering unique and sustainable value to customers. Through pioneering initiatives such as zero-carbon and waste-free factories, we will develop replicable and scalable models of green manufacturing, strengthening the foundation of BOE’s long-term sustainable development.

Across the industrial, BOE will enhance collaborative and symbiotic relationships across the value chain, expanding new spaces for green growth.

As a leading enterprise, BOE will deepen the integration of the “Grand Cycle” concept into the value chain ecosystem. Green supply chain management will advance from compliance-driven practices to strategic partnerships, collaborating with core suppliers to set and achieve more ambitious decarbonization and environmental targets, driving efficiency across procurement, production, and logistics.

Within the broader ecosystem, BOE will promote shared value creation and contribute fresh impetus to global green development.

We aspire to be a key contributor to global sustainability, actively contributing to the development and leadership of domestic and international green standard systems, sharing Chinese experience to help shape global green governance. Our investment strategy will continue to prioritize key technologies that support the energy transition and achievement of climate goals, empowering ecosystem partners through innovative cooperation models. Ultimately, through the creation and sharing of green value,

BOE will evolve from a green manufacturer into a leader in the green ecosystem, injecting strong technological momentum into China’s “Dual Carbon” goals and the global sustainable development agenda.

“If you want to go fast, go alone. If you want to go far, go together.” We recognize that in the face of common global ecological challenges, the efforts of any single enterprise are limited. BOE’s transformation can only reach its full potential within a broader network of value and ecosystem-wide collaboration. Therefore, while charting our own course, we extend a sincere and open invitation to all like-minded partners.

To Our Supplier Partners: Co-Building a Green Supply Chain to Solidify the Foundation for Low-Carbon Transition. BOE sincerely invites supplier partners to fully integrate the concept of green development throughout production and operations, establish or enhance environmental management systems, and set measurable carbon reduction targets. Collaborate on R&D for green raw materials, optimize processes to reduce energy, materials, and emissions, and improve recycling rates. Together, we will establish a carbon footprint traceability system across the supply chain, share green technologies and proven best practices, co-create a transparent, efficient, and sustainable green supply chain ecosystem, and achieve strategic mutual success through joint compliance.

To Our Customer Partners: Jointly Promoting Green Applications to Unlock Low-Carbon Value Potential. BOE looks forward to deepening green collaboration with customer partners, collaboratively developing customized green products tailored to specific application scenarios, and exploring viable pathways to deploy low-carbon solutions in fields such as smart terminals and the Internet of Things. Responding to market demand, we will steer consumer preferences toward green and low-carbon products through green iteration and scenario-based

promotion of end products, jointly converting technological strengths into industrial and societal benefits.

To All Ecosystem Partners: Co-Designing a Green Future and Mobilizing Global Development Synergies. BOE urges all ecosystem partners to remove barriers and pursue open collaboration, jointly engage in developing and promoting green standards, and promote the creation of a unified and standardized green evaluation system across the industry. Focusing on key sectors including new energy, energy conservation and environmental protection, and the circular economy, we will deepen technological R&D and innovation collaboration, accelerate the commercialization and large-scale deployment of green technologies. In alignment with the global agenda for addressing climate change, we will strengthen international exchanges and cooperation, sharing China’s experiences and practical approaches in green development, jointly addressing climate change challenges and building a green future of harmonious coexistence between humanity and nature.

