



2022 BOE SUSTAINABILITY REPORT

About This Report



Reporting Period

This report covers the period from January 1 to December 31, 2022. Part of the content is beyond the above time range.

Reporting Cycle

BOE has published the annual Sustainability Report¹ since 2010. The last report was published in April 2022.

Reporting Scope

This report, covering regions where BOE operates, presents the CSR philosophy, strategy and practices of BOE and its subsidiaries as well as their business operations during the reporting period.

Reporting Data

This report provides data gathered as of December 31, 2022.

Preparation basis

This report is prepared in accordance with the core option of *GRI Sustainability Reporting Standards* (GRI Standards) issued by the Global Sustainability Standards Board (GSSB), the *Guideline No.1 for Self-Regulation of Listed Companies- Standardized Operation of Companies Listed on the Main Board*, the *Code of Corporate Governance for Listed Companies*, *Guidance on Social Responsibility of Information and Communication Technology Industry* (SJ/T 16000-2016), the *Evaluation Index System on Social Responsibility Governance Level of Information and Communication Technology Industry* (T/CESA 16003-2021), and the *2030 Agenda for Sustainable Development issued by United Nations*. By systematically integrating the requirements of key guidelines and standards, this report responds to stakeholders' expectations and requirements, highlighting industrial features and corporate characteristics.

Designations

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

Report Availability

This report is available in printed and electronic versions. The electronic version 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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¹ Starting from 2023, the BOE Corporate Social Responsibility Report has been renamed as the BOE Sustainability Report.

Message from the Chairman



Towards Sustainable Development in Symbiotic Endeavors

The year 2023 marks the 30 anniversary of BOE.

Throughout its trajectory, BOE has fearlessly ventured into the semiconductor display industry, achieving a breakthrough from 0 to 1. Moreover, BOE has coined the concept of “ICPST (Integration of Chips, Panels, Software and Things),” and advanced the strategy of “Screen of Things”. These accomplishments are comparable to those of a person who has turned 30 years old, guiding us to look back upon the past development.

Over the three decades, BOE has gone through three crucial stages in its journey towards gaining market recognition and industry leadership. In the stage of transformation and entrepreneurship focusing on primary business, BOE tackled the plight of screen scarcity in China’s electronic information industry, propelling itself to be a global leader in semiconductor display. In the stage of overcoming screen limitations to lead the industry, BOE established its transition from a semiconductor display provider to an IoT company providing intelligent interface products and professional services for information interaction and human health. In the stage of securing leadership in an intelligent future, BOE has been making strides towards the high-quality development in the era of IoT around the strategy of “Screen of Things”.

As the Chinese proverb goes, “Reaching the age of 30 represents stability.” Under the strategic guidance of Display + IoT, BOE adheres to the guidelines of “steadiness, foundation consolidation, long-term doctrine” to maintain a leading position in semiconductor display, and has excited the industry with its accelerating digital technology empowerment and IoT ecology. Speaking of our market performance, despite challenges such as the global economic pressure, BOE’s LCD shipments ranked first in five mainstream application fields in the world, and IoT has become a new growth catalyst. Facing an array of internal and external challenges in 2022, BOE still achieved a net profit of RMB 7.5 billion attributable to shareholders of the parent company.

As for our technology edge, we continue to enhance our business and products through the use of our display technology brands, including ADS Pro, f-OLED and α -MLED. Based on our ADS Pro, we have achieved breakthroughs in ultra-high definition, ultra-high refresh rate, and wide color gamut. Based on our f-OLED, we have rolled out innovative products such as folding screens, four-folding screens, and super retina eye protection screens, setting a new role model in the display industry. Based on our α -MLED, we have made progress in mass-producing 86-inch glass-based active driving Mini LED and the first-ever LTPS P0.9 glass-based MLED display. By the end of 2022, BOE had ranked 11th in the world on the US patent list with over 80,000 cumulative independent patent applications positioning BOE among Top 20 for five years in a row, which demonstrated our technological innovation leadership.

With regard to our industrial contribution, our Fuzhou Gen 8.5 TFT-LCD production line with a signature of intelligent innovation was awarded as the “lighthouse factory”, representing a breakthrough of the industry and a new milestone in China’s semiconductor display intelligent manufacturing. In the field of visual arts, the giant “snowflake” installation independently developed and designed by BOE made an impressive debut at world-renowned ice and snow events. Our smart financial solutions have been applied in more than 3,000 outlets of banks such as ICBC, CCB and ABC in nearly 25 provinces. We have assisted Jingdezhen in building smart park solutions that cover management, service and operation, interpreting the full-scenario, all-factor, whole-cycle and end-to-end IoT innovation engine with our technical strength. Our smart retail solutions are now available in more than 35,000 stores in over 60 countries around the world. On the occasion of the 30th anniversary which has amassed remarkable accomplishments, we are proud to announce that BOE is not only a leader of semiconductor display, but also a global innovation pioneer in the IoT era.

In the past three decades, advances in science and technology have facilitated sustainable development and propelled human society into the era of the digital economy. As a result, the expectations for corporate social responsibility have increased significantly. A high-tech company is expected to consider societal benefits in addition to innovation and business development.

The sustainable development of the economy and society serves as both a value criterion and a driving force for sustainable technological innovation. In the past year, focusing on the all-round green transition in economic and social development, China has been advancing, with the assistance of digital technology, towards a harmony between man and nature. Innovative practices in which digital technology generates social value for various industries, keep emerging, further stimulating the vitality of an age characterized by joint creation and sharing between technology and society.

As a high-tech company that impacts billions of people around the world, BOE has consistently benefited the society with high-quality business resources, expertise and a sustainability philosophy so as to achieve sustainable development with its stakeholders.

This includes our efforts to protect the environment via energy-saving innovations and our active contributions to social welfare. It also encompasses our commitment to fostering symbiotic development with employees and investors, while valuing the input of partners and striving to meet the needs of customers. Over the three decades, the vision of BOE to be the most respected company on earth is becoming increasingly apparent.

At BOE, we have been promoting sustainable development and practicing corporate social responsibility for 30 years, which is showed in four tiers of symbioses.

Symbiosis with partners to advance industrial development

To BOE, creating social value for stakeholders is just as important as creating commercial value for our customers. As a leader in the global semiconductor display industry and a global innovator in the field of IoT, BOE adheres to the philosophy of profound cooperation, joint development and value creation. This can foster collaborative innovation, and joint R&D of technologies and products between upstream and downstream of the industrial chain, thus generating greater industrial value.

To achieve this, we work closely with partners based on technology and core strengths. Leveraging our advantage of resources, we constantly offer suppliers with diverse types of training and capacity-building activities, thereby enhancing the governance of the supply chain and assisting them in achieving comprehensive development. In 2022, we initiated a green supply chain development project with suppliers that integrates carbon peak and carbon neutrality management into their corporate social responsibility, driving them to build a carbon peak and carbon neutrality management system.

Symbiosis with innovation to empower a myriad of scenarios

By consistently investing in innovative technology, BOE has managed to speed up upgrading its technological advantages in the semiconductor display industry. In line with the "Screen of Things" strategy, BOE has also provided innovative solutions that supports the digital and intelligent transition of various industries.

For example, BOE has created an IoT central control platform that links devices, users, data, and applications based on its core strengths in semiconductor displays, sensor devices, and intelligent manufacturing and the industry-leading and self-developed AIoT technology. This platform provides integrated hardware and software solutions for various scenarios to empower industries like smart finance, smart parks, industrial interconnectivity, and education and teaching. With its unique IoT innovation, BOE is empowering application scenarios with technology under the Screen of Things strategy more practically. Marching towards a stage of high-quality development, BOE is leading the industry into the era of screens connecting everything.

Symbiosis with nature to protect the environment

BOE continually enhances its environmental management system and implements full-process green operations. We identify and respond to potential environmental risks in production and operations and efficiently use various resources in order to fulfill our environmental commitments. Additionally, we explore the use of new technologies to tackle new environmental challenges, aiming to foster symbiotic development with the environment and build a green ecosystem. By 2022, 15 BOE plants have been awarded the title of National Green Factory.

With an focus on the goals of carbon peak and carbon neutrality, as well as environmental protection, we have implemented a series of international standard certifications, including energy management systems, product carbon footprint, zero waste landfill, and circular economy coefficient. In 2022, BOE Chongqing was certified by UL 3600 (Certification Measures Circular Economy Efforts) and UL 2799 (Environmental Claim Validation Procedure for Zero Waste to Landfill, Gold Level), making it the first in Chinese mainland to pass UL 3600 and receive its certificate.

Symbiosis with the society through public welfare activities

Businesses are part of the society. BOE cannot attain progress without the assistance of social forces. It is thus BOE's duty and obligation to commit itself to the cause of socially sustainable development. Over the years, BOE has contributed extensively in social welfare and staff development.

In terms of charity cause, BOE volunteers have held relevant activities in villages and communities. In the field of education, through the "Illuminating the Growth Path" program, BOE has built over 70 smart classrooms, benefiting more than 24,000 students and more than 1,000 teachers in remote areas. BOE also facilitates the medical and health services to access to more people and improves the development level of medical technology in remote areas based on its technology and resources. Under the concept of "change life with heart", a series of campaigns have been launched to promote regional revitalization, allowing science and technology to better empower the society and advance sustainable regional development.

BOE is also committed to nurturing an inclusive and diverse workplace. We attract and pool exceptional talent, respect and cherish the unique differences among employees, and ensure their healthy development. In recent years, we have invested more resources towards personnel training. As part of our strategy to revitalize BOE with talent, we bring together the best minds across the world and draw on their expertise while cultivating top talent within the industry. Currently, 23.86 percent of our workforce is comprised of technical and product R&D specialists, who have made important contributions to our rapid growth.

The digital world is bursting with vigor, and a new age of IoT is approaching.

We are proud to be in such a great era, where we are tasked with new responsibilities along with new pursuits and missions in an environment worthy of hard work, struggle and dedication!

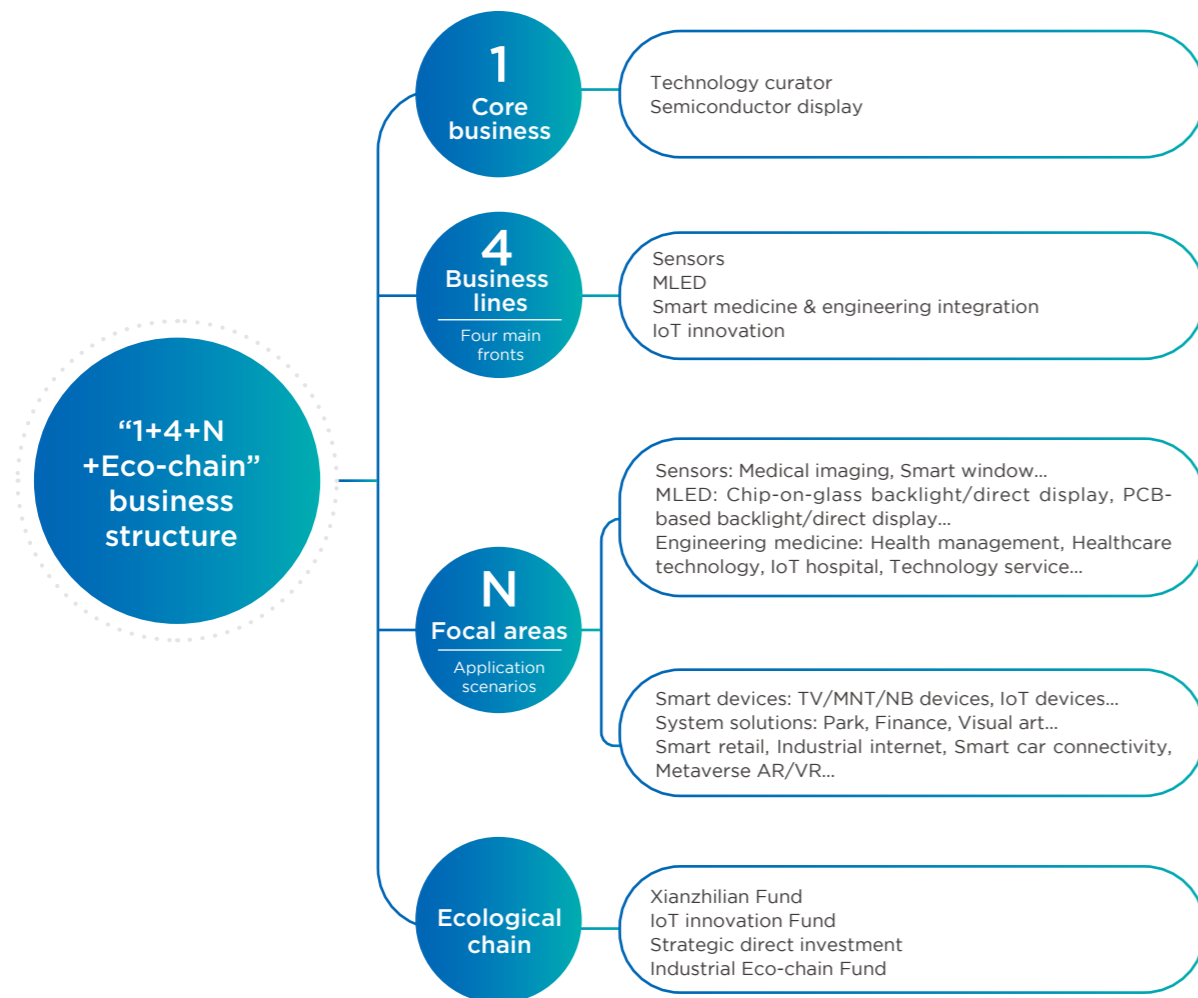
At its 30 years old, BOE is poised for a better future! BOE employees will adhere to sustainable development and constantly contribute to the industry and society. On the technological road to Screen of Things, we are eager to collaborate with global users and partners to deliver digital benefits to every user, family, and business. We will devote to changing life with heart as always!

Chairman of BOE Technology Group Co.,Ltd



About BOE

Founded in April 1993, BOE Technology Group Co., Ltd. (BOE) is a leading IoT company providing intelligent interface products and professional services for information interaction and human health. It has formed a “1+4+N+Eco-chain” business structure with the semiconductor display business as the core and featuring the integrated development of IoT innovation, sensor and solutions, MLED and smart medicine & engineering integration.



Best On Earth

**BOE will celebrate the
30th anniversary
of its founding in 2023**

To commemorate this important historical moment, on December 30, 2022, BOE officially unveiled a logo which perfectly embodies its philosophy of “Inheritance, Innovation, Development”. The logo is both an epitome of its remarkable achievements over the past 30 years and a positive outlook for the future.

Our Businesses

Semiconductor display

As a leading company in the global semiconductor display industry, BOE has led China's display industry from scratch to maturity and prosperity. At present, every fourth smart terminal in the world has a display from BOE. Its ultra-high-definition, flexible and micro-display solutions have been widely used in famous brands at home and abroad. According to Omdia, a global market research agency, and Sigmain-tell Consulting Co., Ltd, their data shows that in 2022, BOE ranked first globally in five major applications of display shipments, including smart phones, tablets, laptops, monitors, and TVs.

IoT innovation

Our IoT innovation business comprises smart terminals and system solutions, which is based on our industry-leading intelligent manufacturing capabilities and the continuously evolving IoT technology. Consequently, BOE has created an integrated industrial platform of "display devices-smart terminals-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, low-power devices, IoT, and 3D display. Backed by AI and big data technologies, BOE focuses on products and services combining hardware and software, providing integrated IoT solutions for segments including smart industrial parks, smart finance, visual arts, intelligent connected vehicle and public services.

Sensors and solutions

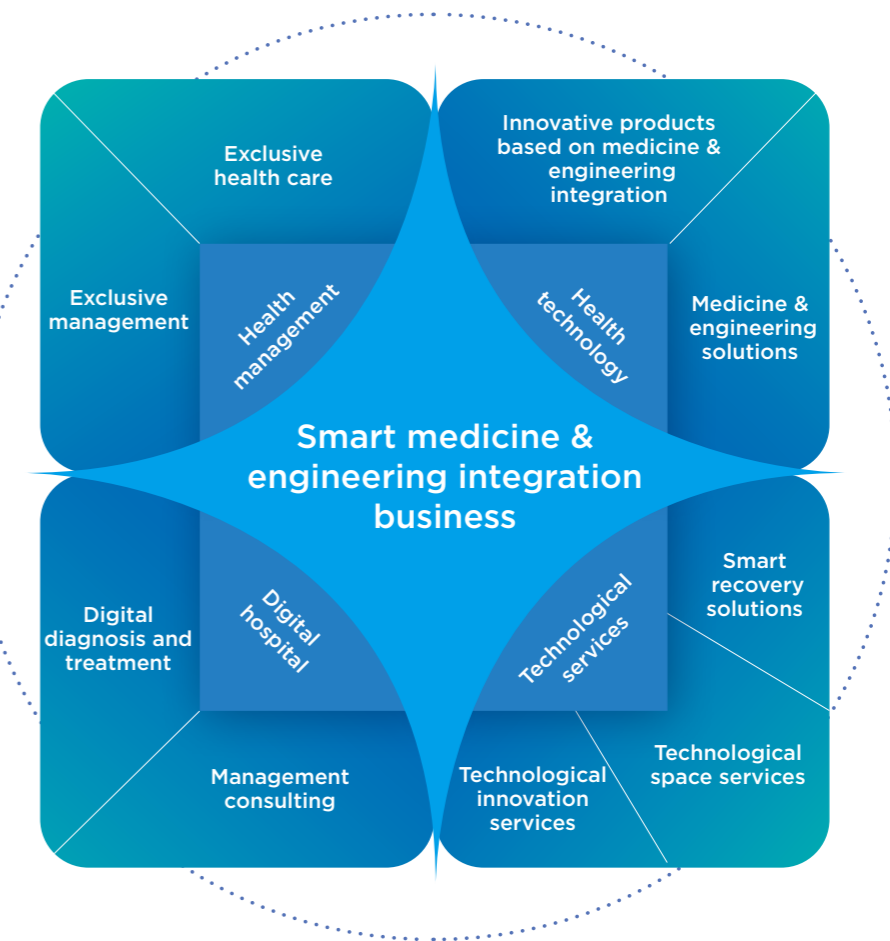
BOE's sensors and solutions business focuses on medical imaging, bio-detection, smart window and fingerprint recognition. The X-ray flat panel detector backplane (FPXD) has been widely used by high-end medical device companies in Europe, America, Japan, Korea and other parts of the world. Our smart window provides competitive sensor devices and application solutions for fields such as construction by our display and sensor technology innovation.

MLED

BOE's MLED business provides customers with next-generation LED display systems and solutions based on its unique active drive architecture and high-speed transfer technology with semiconductor process and advanced micron-level packaging process. We have launched display products such as glass-based 75-inch 8K Mini LED and the first LTPS P0.9 glass-based MLED, bringing a brand-new visionary world.

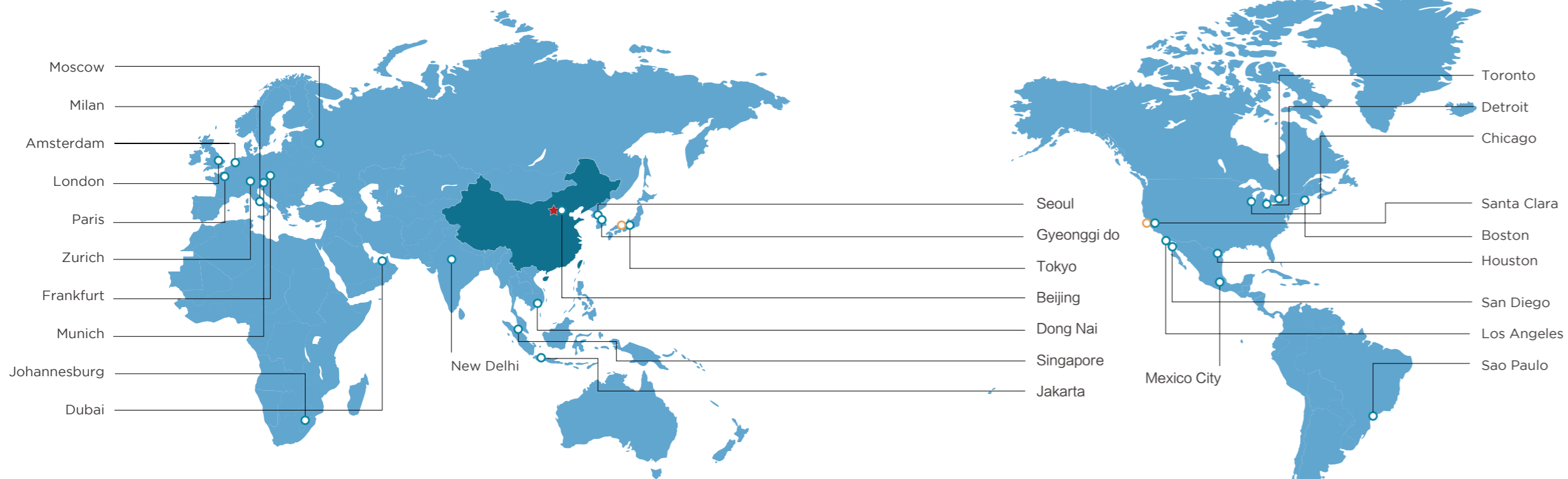
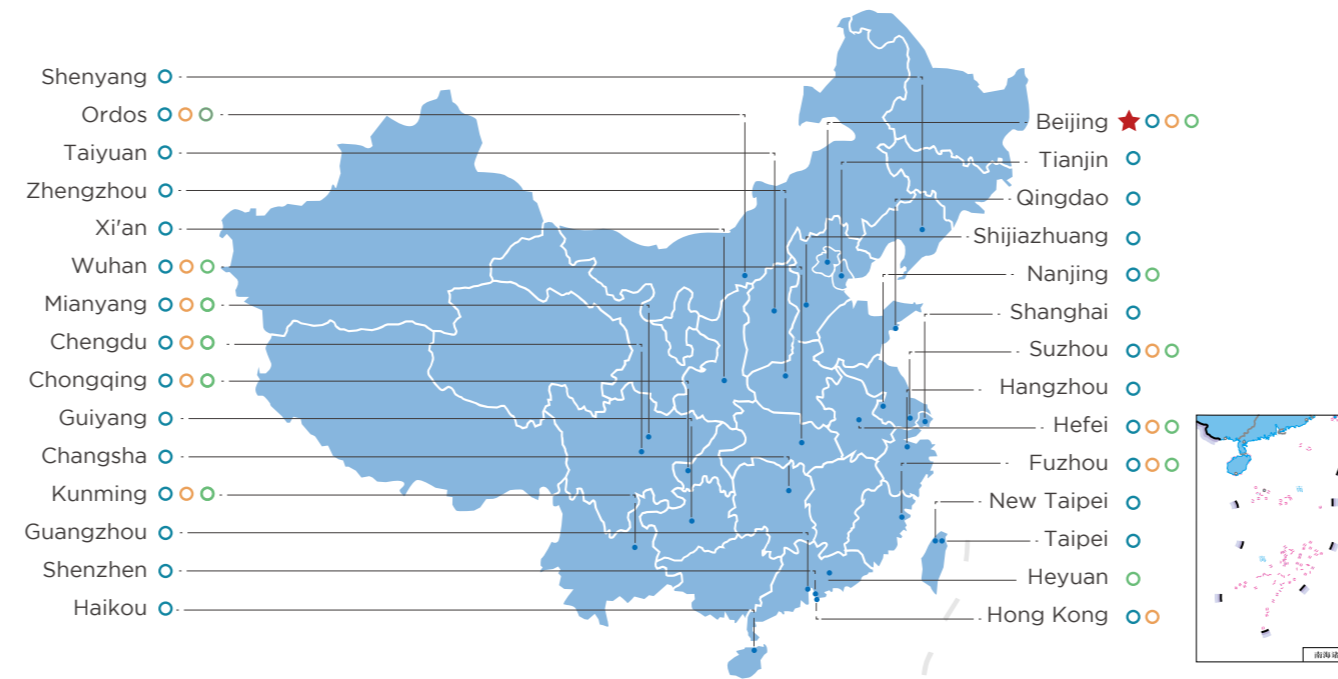
Smart medicine & engineering integration

Through integration and innovation of technology and medicine, BOE develops a smart graded health management system supported by IoT technology and forms a smart health management ecosystem. Therefore, we provide closed-loop full-cycle health services with health management as the core, medicine and engineering integration terminals as driving force, and digital hospitals as the underpinning part, aiming to improve people's healthy life. BOE has laid out a number of digital hospitals in cities including Beijing, Hefei, Chengdu and Suzhou to render people-centered full-cycle and all-round health management services.



Global Presence

As of December 31, 2022, BOE has manufacturing bases in many parts of China including Beijing, Hefei, Chengdu, Chongqing, Fuzhou, Mianyang, Wuhan, Kunming, Suzhou, and Ordos, as well as subsidiaries in 20 countries and regions such as the United States, Canada, Germany, the United Kingdom, France, Switzerland, Japan, South Korea, Singapore, India, Russia, Brazil, and the United Arab Emirates. The service network covers major regions of the world such as Europe, Americas, Asia, and Africa.



CSR Feature

Committed to Fulfilling the Corporate Responsibility for 30 Years

BOE will celebrate the 30th anniversary of its founding in 2023. Consistently dedicated to the display industry and IoT ecology, BOE has led China's display industry from scratch to maturity and prosperity. Our ever-improving display and sensing technologies offer exceptional human-computer interaction experience for better scenario applications in internet terminal equipment. BOE allows customers to transform their operations into digital and intelligent ones using smart system innovation technology. With innovative technologies that integrate display, sensing, artificial intelligence, and big data, BOE creates favorable cooperative conditions for ecological partners in the IoT era, promoting mutual benefits and driving progress in society.



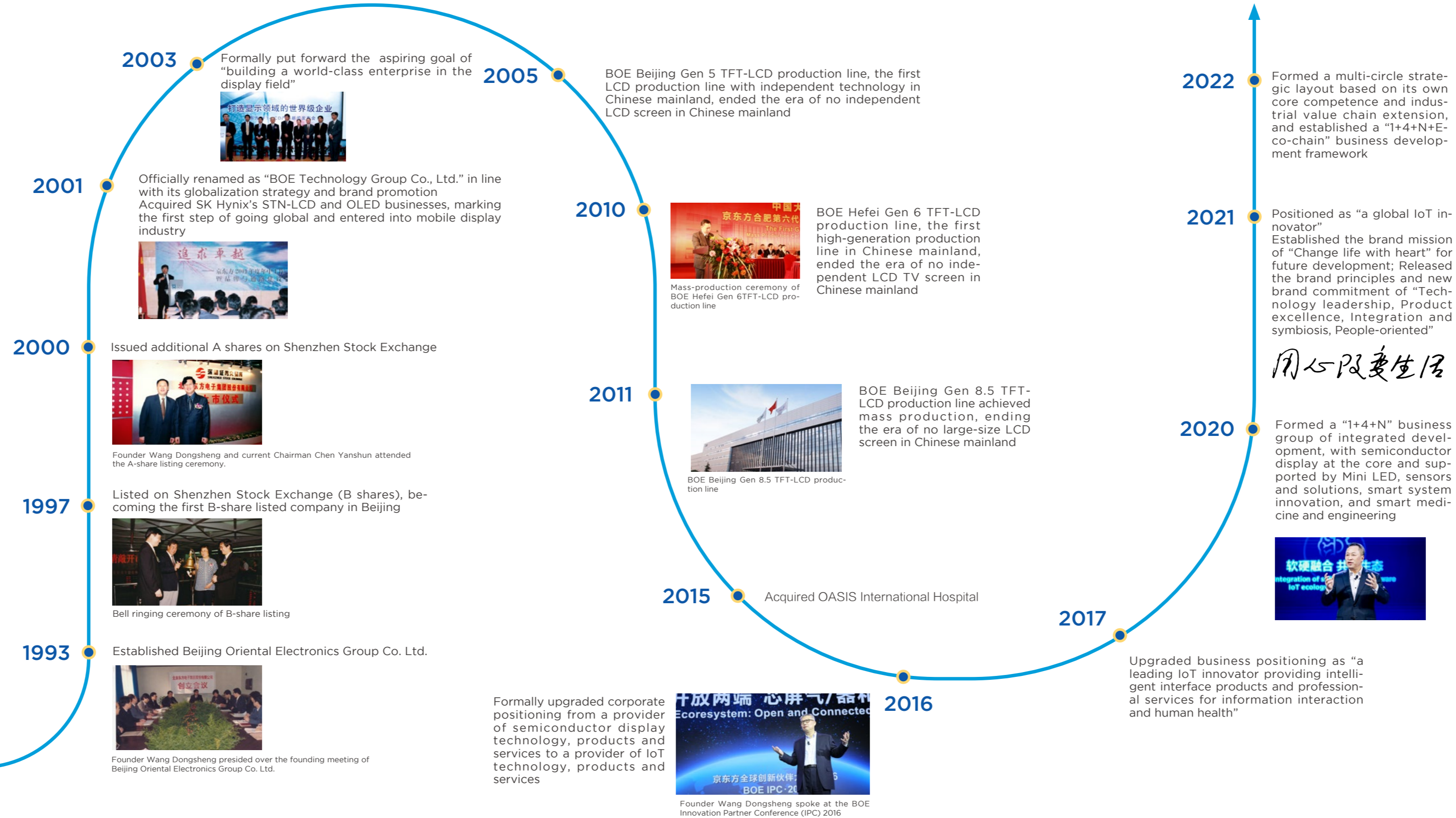
Steadfast Development Driven by Innovation

In the industry of science and technology, display and IoT are developed in parallel through innovation. Over the past 30 years, BOE has led China's display industry from scratch and tackled the plight of scarce screens in China, growing into a leading company in the global semiconductor display industry. At the same time, as a pioneer of IoT innovation and a builder of IoT ecology, BOE has been combining expertise in semiconductor display technology, sensing technology, system device technology and intelligent manufacturing capability accumulated for years with AI, big data, and cloud computing to deliver hardware and software integrated system solutions, and create an integrated and symbiotic IoT innovation ecology. By empowering the digital transformation of various industries, BOE strives for people to enjoy a better life in the digital age.

Overall layout to broaden business reach

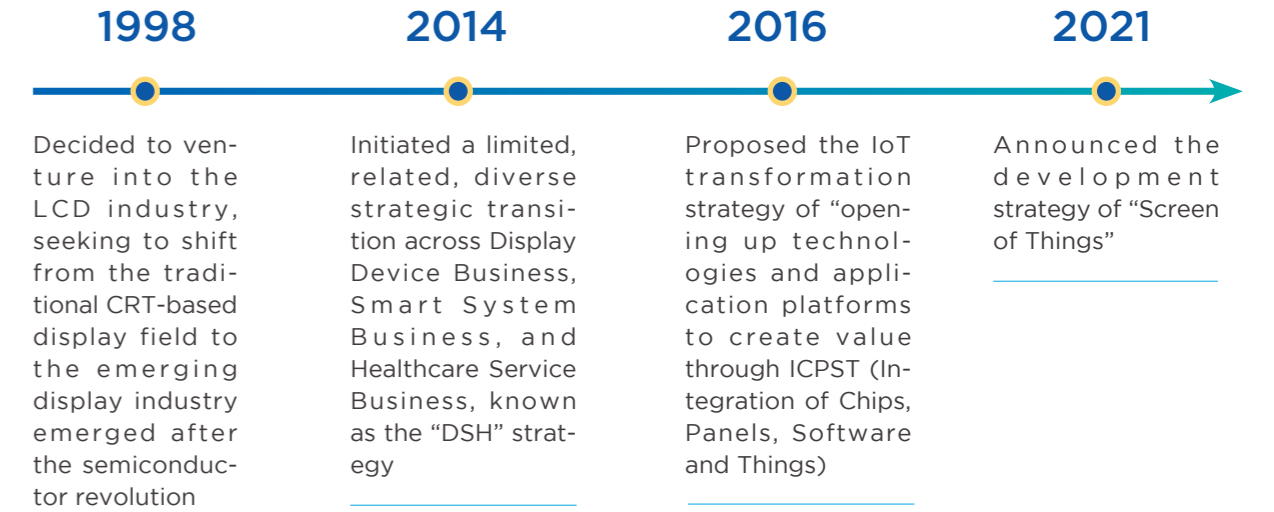
Founded in 1993, BOE has soared by starting anew as an enabler for China's semiconductor display technology over the past three decades. From the IoT transformation strategy of "opening up technologies and application platforms to create value through ICPST (Integration of Chips, Panels, Software and Things)" in 2016 to the strategy of "Screen of Things" in 2021, BOE has been empowering a myriad of IoT subdivision scenarios in order to shift from a semiconductor display provider into an IoT company providing intelligent interface products and professional services for information interaction and human health. BOE has consistently demonstrated the original aspiration of continuous exploration, innovation, and pursuit, evolving from manufacturing to intelligent manufacturing, and to value manufacturing. Looking ahead, we will continue to forge ahead on the path of IoT transformation.

BOE milestones



Strategic Guidance to Connect Everything with Display

BOE acknowledges the prevalence of display in a global vision. BOE constantly innovates our strategy through ongoing explorations and breakthroughs, considering the IoT industry's market characteristic of integrated development and its inherent law, as well as extensive experience in innovative development. By embracing the development trends of the IoT era, we aim to empower a better life through science and technology.



BOE leverages display, IoT, sensing, and other technologies to empower scenarios such as finance, industrial parks, medical care, home, and retail. As a result, BOE is gaining reputation as a leading provider of IoT solutions. BOE products and services are currently available in Beijing Daxing International Airport and Moscow's urban rail trains.

In December 2022, BOE unveiled the first set of Innovative Application Cases for the Screen of Things. Focusing on fields to apply "Display Technology + IoT Technology", the document lists 30 innovative practice cases selected from over ten vertical scenarios, such as emerging consumption, sensing devices, industrial interconnection, smart finance, smart industrial parks, intelligent connected vehicle, smart education, visual art, digital art, and smart medical care.



Scan to browse and download the Innovative Application Cases for the Screen of Things on the BOE website

Technological innovation to boost rapid development

"A business may or may not prosper with technology, but without, it is condemned to failure" elucidated by BOE as a high-tech company. In the course of establishing core competitiveness, BOE has never ceased to enhance its technical capacity. BOE has unwaveringly, regardless of business climate, followed the principle of "respecting technology and persisting in innovation," investing a high portion of its operating income in R&D every year. To encourage and promote independent innovation and independent technology, BOE has established a complete technological innovation system that provides systematic and comprehensive technical support for disruptive innovation.

When it comes to technology, talent must be involved. BOE boasts over 20,000 R&D personnel, who are uniquely specialized, technology-based, young, and well-educated. Our research team is primarily comprised of doctoral and master's degree millennials holders to sustain innovation vitality. Our "openness, diversity, and inclusive" employment philosophy fosters a win-win situation for both individual and corporate value.

Fruitful results in continuous innovation

When respecting technology has become an ideological premise of BOE, its science and technology progress steadily.

2012



In 2012, BOE launched the first 110-inch 4K UHD ADS LCD TV, winning the Guinness World Records certification for the "World's Largest LCD TV"

2016



BOE realized the first 8K live broadcast with its 8K UHD displays during the Rio 2016 Olympics

2017



In 2017, the mass production delivery ceremony of the Chengdu Gen 6 AMOLED production line was held



On December 20, 2017, the world's first Gen 10.5 TFT-LCD production line roll-off & delivery ceremony was held in Hefei, Anhui Province

2022



In 2022, BOE 86-inch COG AM Mini LED won the SID DIA Award - 2022 Display Component of the Year

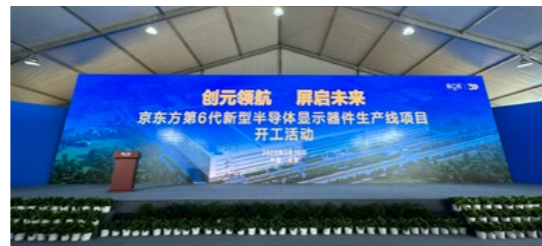


BOE revealed its first 17.3-inch foldable OLED laptop using f-OLED display technology at the CES 2022, marking that Chinese high-tech companies represented by BOE have been at the forefront of the world

2023



In 2023, BOE presented a host of MLED and Mini LED direct display and backlight products at the Integrated Systems Europe 2023 (ISE 2023), showcasing its MLED display technology strength to global guests



On February 10, 2023, the commencement ceremony of BOE Gen 6 new semiconductor display device production line was held

"Technology + brand" in parallel

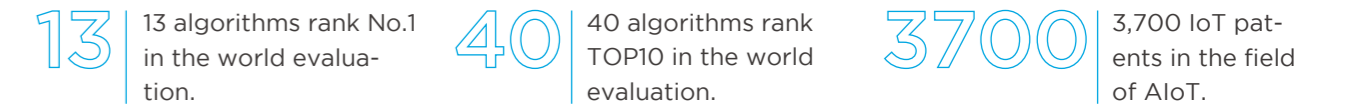
On December 21, 2021, BOE officially released the first technology brand in China's semiconductor display field. It not only represents BOE's continuous innovation in display technology, but also demonstrates China's technology confidence in global market competition, creating a new era driven by "technology + brand" values in parallel.



At the release, the first technology brand was born in the witness of Mr. Chen Yanshun, Chairman of BOE, Mr. Liu Xiaodong, Vice Chairman of BOE, Mr. Gao Wenbao, President of BOE, Mr. Zhang Zhaohong, MLED Business President of BOE, Mr. Ouyang Zhongcan, academician of the Chinese Academy of Sciences, Mr. Zhang Baizhe, professor at the Tsinghua University, Mr. Yu Zhitao, Vice President of Hisense Group, and representatives of partners across industries

Innovation leading to enhance soft power

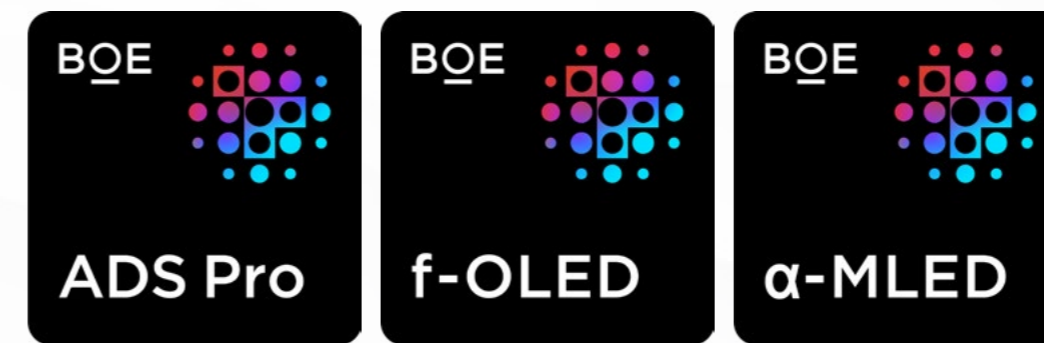
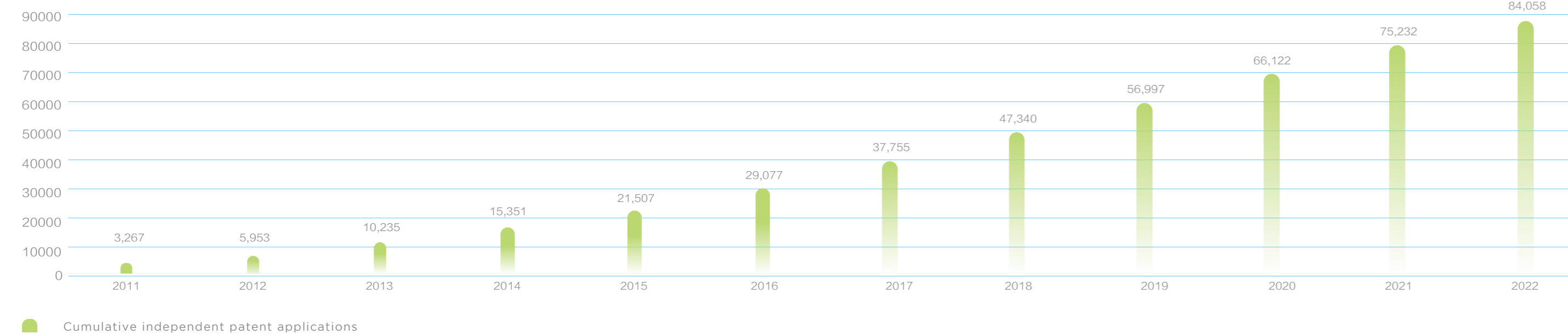
Building upon the advantages of display technology, BOE has developed an integrated, AIoT technology system that consists of eight core technology platforms: intelligent hardware, intelligent software, industrial design, AI, IoT, big data, industry cloud, and edge computing. With the universal formula of "screen + AIoT", we have fully embraced the "Screen of Things" strategy through terminal intelligence, scenario intelligence, and industrial intelligence.



On the evening of October 1, 2019, 3,290 people offered their blessings to the country by holding foldable BOE panels



On February 4, 2022, BOE presented an ingenious blend of digital technology and aesthetic innovation at the Winter sports events in China



Three sub-brands and their logos: high-end liquid crystal display technology ADS Pro, high-end flexible display technology f-OLED and high-end glass-based new LED display technology α-MLED

Work Together to Create a Better Future with Responsibility

For BOE, CSR is by no means a slogan, but an era mission from idea to action. Over the past 30 years, BOE has been committed to upgrading customer experience, empowering partner growth and benefiting the society while contributing to China's strength in the global display industry.

Consolidate responsibility to reach concept consensus

BOE exists in and is rooted in the society. By constantly seeking interactive sustainable development with the society, BOE will contribute to a better society. BOE, Best On Earth. It is our corporate vision as well as striving goal and motivation to be the most respected company on earth.



Best On Earth is not only the acronym of our English corporate name, but represents our aspiration to become one of the best companies on the earth. The underline which forms part of the logo indicates that all BOE people shall be united by one vision, one belief, and one culture, and we strive to serve people's lives with technology and make the Earth a better place. The underline also stands for the solid horizon, implying that BOE is established on the Earth and will become one of the most respectable companies on Earth.

During BOE's 15th anniversary, BOE's founder Mr. Wang Dongsheng reminded everyone to hold onto the values of transcendence, awe, and gratitude. Over the past 30 years, BOE staffs has been guided by these values to treat people with gratitude, discipline themselves with awe, and act with transcendence, shifting the core spiritual connotation of corporate culture into the spiritual motivation and practical action of transformation and innovation. Excellent technical products and IoT solutions that integrated hardware and software have been provided for empowering various fields such as finance, retail, travel, and medical care. It is our original aspiration and unwavering commitment.

At the BOE's 29th anniversary, our Chairmain Mr. Chen Yanshun said that, "Having weathered hardships throughout its 29-year career, BOE makes unique contributions to a multitude of industries with each strategic choice and innovative breakthrough. While fueling high-quality development with innovation, quality, value and IoT, BOE strides all the way with premium on and promotion for social progress as value pursuit."

Interpret responsibility in actions

BOE recognizes that corporate development is inseparable from the ongoing support and assistance of society. Hence, while leveraging science and technology to change the life, we remain grateful through an active stance in fulfilling CSR. We endeavor to promote a harmony and coordinated development with the society, and drive societal common progress when embedded into social development.

Provide ingenuity quality

As a promoter of the fourth industrial revolution, BOE has taken the lead in fulfilling the responsibility of an industry leader. BOE presided over the development and revision of international and national standards, spurred over 2,000 partners to elevate their overall quality, and was rated the first by 32 core global customers by comprehensive quality, setting a new benchmark for the industry with exceptional quality and gaining international recognition with brand-new "Chinese quality" standards.

Protect the earth

BOE upholds responsible awareness on sustainable development and is committed to the principles of green development. BOE fulfills its environmental commitments by implementing green systems, producing eco-friendly products, and practicing green operations throughout the process. BOE is dedicated to taking action on environmental protection in all aspects of production and operation, which has fostered a virtuous circle of business and environmental symbiosis, created a green ecosystem. A total of 15 BOE plants have been awarded the title of National Green Factory. This is an affirmation of our sustainable development efforts, and a witness to our achievements in protecting the environment, saving energy, and reducing emissions.

Growing with partners

A responsible supply chain is the foundation for sustainable corporate development. It is also a shared goal and duty of BOE and our industry chain partners. BOE keeps strengthening supplier management and incorporates CSR into all aspects of supply chain management. We drive supply chain partners to fulfill their responsibility and grow with them together through systematic management, professional training, and experience sharing.

Caring about employees

Upholding people-oriented philosophy, BOE strives to benefit all employees with development achievements. We safeguard their basic rights and interests, assistant staff development, and enhance their sense of well-being and gaining. By stimulating vitality and creativity, we help employees gain self-worth and encourage them to grow together with BOE.

Contributing to the community

BOE is committed to taking on greater responsibility for creating a better and harmonious society through a range of initiatives, including supporting poverty alleviation, serving rural vitalization, bridging the digital divide, cultivating innovative talent, carrying out free clinic science popularization, and assisting in cultural inheritance.

BOE milestones in sustainable development

- 2002** Established the Sunshine Fund, led by BOE and participated by employees, to provide assistance to retired employees, laid-off workers, employees in need and their families
- 2003** Set up student grants and faculty awards with several colleges and universities
- 2008** Donated RMB 1 million to the Red Cross Society of China Sichuan Branch in Chengdu to victims of the Wenchuan disaster and mobilized employees to contribute over RMB 300,000 to support the reconstruction of their homes
- 2009** Used reclaimed water in BOE Beijing Gen 8.5 TFT-LCD production line, the first of its kind in the global TFT-LCD industry, greatly reducing the consumption of tap water
- 2010** Released the first CSR report
- 2011** Carried out tree conservation activities in "BOE Optoelectronic Forest" adopted in Beijing Guang'ai Primary School
- 2012** Established the CSR Management Committee as an independent organization, with a CSR promotion department to promote specific CSR fulfillment and communicate with people in charge of CSR from relevant organizations
- 2013** Launched the initiative of "Low-carbon and Environmental Protection, BOE in Action", organized employees to participate in the environmental protection commitment signature activity, and collected BOE energy-saving and environmental protection ideas on the spot
- 2014** Initiated the "Illuminating the Growth Path" welfare project to care for education in remote areas
- 2015** Independently developed the Green Product Management (GPM) system for more effective and comprehensive management of green products
- 2016** Rolled out employment and PV poverty alleviation projects in active response to China's 13th Five-Year Plan for poverty alleviation
- 2017** Began to support the public welfare project Culture Volunteer Service Action of Chinese Ancient Books Census initiated by the Ancient Books Preservation and Conservation Association of China
- 2018** Launched the first Sharing Dreams Summer Camp of "Illuminating the Growth Path" program to invite children from remote areas to Beijing for sightseeing, visit, and study
- 2019** Jointly released the Sustainable Development Enterprise Action Initiative with 16 Chinese and foreign companies including Alibaba Group to facilitate the realization of the UN 2030 Agenda for Sustainable Development
- 2020** Launched a supplier development program to help supplier growth
- 2021** Established a carbon peak and carbon neutrality project team, made this project a top priority on BOE's agenda, and formulated a three-step strategy and the "624" Carbon Peak Master Plan
- 2022** Implemented the Sustainable Development Partner program to connect internal resources in an innovative cooperation mode while taking sustainability actions

Affirm recognition to stimulate future efforts

BOE proposed a forward-looking vision in 20 years ago: We dream of offering products and services in household, squares and every place where people live. We keep innovating because we are so closely connected with people's lives". With innovative technology, BOE is expanding its presence in more fields such as responsibility management, product quality, environmental protection, sci-tech innovation, supplier management, and contribution to the community, thus moving closer to its aspiring vision. As we convey our ideas to more stakeholders and deepen our accomplishments in responsibility fulfillment, we have earned the recognition and affirmation of numerous stakeholders.



BOE responsibility honors (Partial list)

2008

"China Red Cross Humanitarian Service" Medal

2011

2010 CSR (China) Leadership Forum "Science and Technology Innovation Award" and "Green Enterprise Award"

2014

International Carbon-Value Award • Innovative Value Award

2017

Consumer-trusted Brands of Year 2017 for High-quality Services

2020

Top Employers China 2020

2009

"2008 Most Creative Public Welfare Case" Award ("Volunteer Service Project" of Beijing BOE Optoelectronics Technology Co., Ltd.)

2012

"CES Most Green Innovation Technology Enterprise"/2012 China CSR Special Gold Award

2015

iF Design Gold Award (Germany)

2018

CES 2017-2018 Top 10 China Consumer Electronics Brands

2021

2021 4th China Quality Award

2010

"2010 Best Social Responsibility Enterprise" (Chengdu BOE Optoelectronic Technology Co., Ltd.)

2013

The title of "2013 China's New Generation Information Technology Leading Enterprise"

2016

2016 CITE Innovative Product and Application Gold Award

2019

The 50 Smartest Companies in the World (2019)

2022

2022 China Corporate ESG Golden Responsibility Award - Annual Sustainable Development Award



G O V E R N A N C E

Consolidating Foundation for Sustainable Development

Adhering to the management philosophy of "making progress through innovation and managing BOE with integrity", we continue to improve the corporate governance structure and strengthen the internal control system with an open and pioneering mind to fully protect the rights and interests of shareholders. Following the management principles of "integrity, compliance, transparency and responsibility", we help our supply chain partners to enhance their sustainability through systematic management and training and develop a diversified and efficient communication mechanism to receive as much feedback as possible from stakeholders, thus consolidating our development foundation.

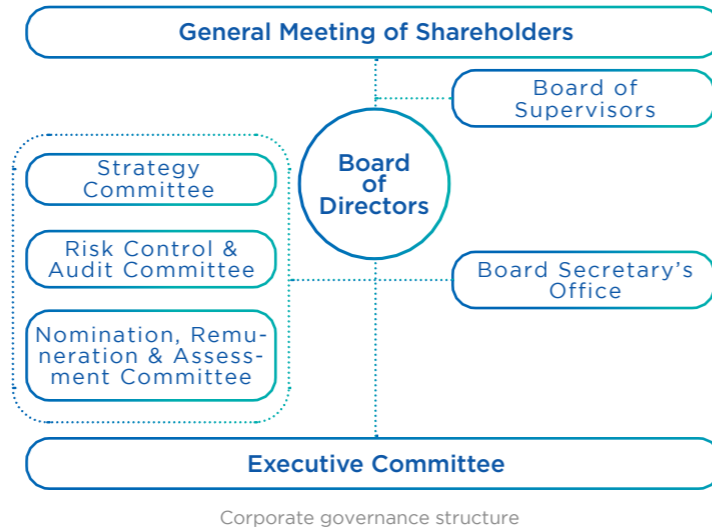


Corporate Governance Optimization

We continuously strengthen our corporate governance structure and establish a comprehensive compliance management system to ensure BOE and our people act in line with strict governance standards. We actively build and safeguard a level playing field with openness and transparency and improve the IPR protection and business ethics to build long-term trust and support with business integrity, standardized operation, and transparent management.

Perfecting governance structure

Following the principles of “integrity, compliance, transparency and responsibility”, we strictly abide by laws and regulations, such as Chinese *Company Law*, the *Securities Law* and the *Code of Corporate Governance for Listed Companies*, and relevant requirements of listed companies on the stock exchanges to continuously optimize the governance structure and the internal control system, thus enhancing corporate governance. In December 2022, BOE was awarded the 2022 Best Practices of the Office of the Board of Directors and the Evaluation Award of the Board Secretary (5A) by the China Association for Public Companies (CAPCO).



During the reporting period, the Board of Directors, the Board of Supervisors, and the senior management performed their duties in strict compliance with relevant rules, laws, and regulations to ensure the effectiveness of BOE’s standardized governance structure. We continuously adjust the Board of Directors based on relevant laws and regulations and our strategic requirements. According to our articles of association, the Board of Directors consists of 11 directors, including 4 executive directors and 7 non-executive directors (3 shareholder directors and 4 independent directors), all of whom have professional backgrounds, with subject knowledge, skills, and qualifications for fulfilling their responsibilities. They can keep track of our production, operation, financial situation, and the impact and risks of major events, and gain access to the information required for decision-making to ensure the efficient operation of the Board and scientific decision-making of directors.

In 2022, we constantly revised 17 corporate governance policies based on the update of the *Securities Law* and of relevant rules of the China Securities Regulatory Commission (CSRC) and Shenzhen Stock Exchange (SZSE), and our own situation. We also assigned directors and supervisors to attend the special training organized by the Beijing Securities Regulatory Bureau and carried out regular assessments of related party fund transactions, external guarantees and shares held by directors, supervisors, and senior management. By improving investor communication platform, we can strengthen our relationship with investors and ensure effective corporate governance and standard operation. In 2022, BOE was selected as one of the models for corporate governance of SOEs by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC).

In 2022

15 meetings of the Board of Directors

5 meetings of the Board of Supervisors

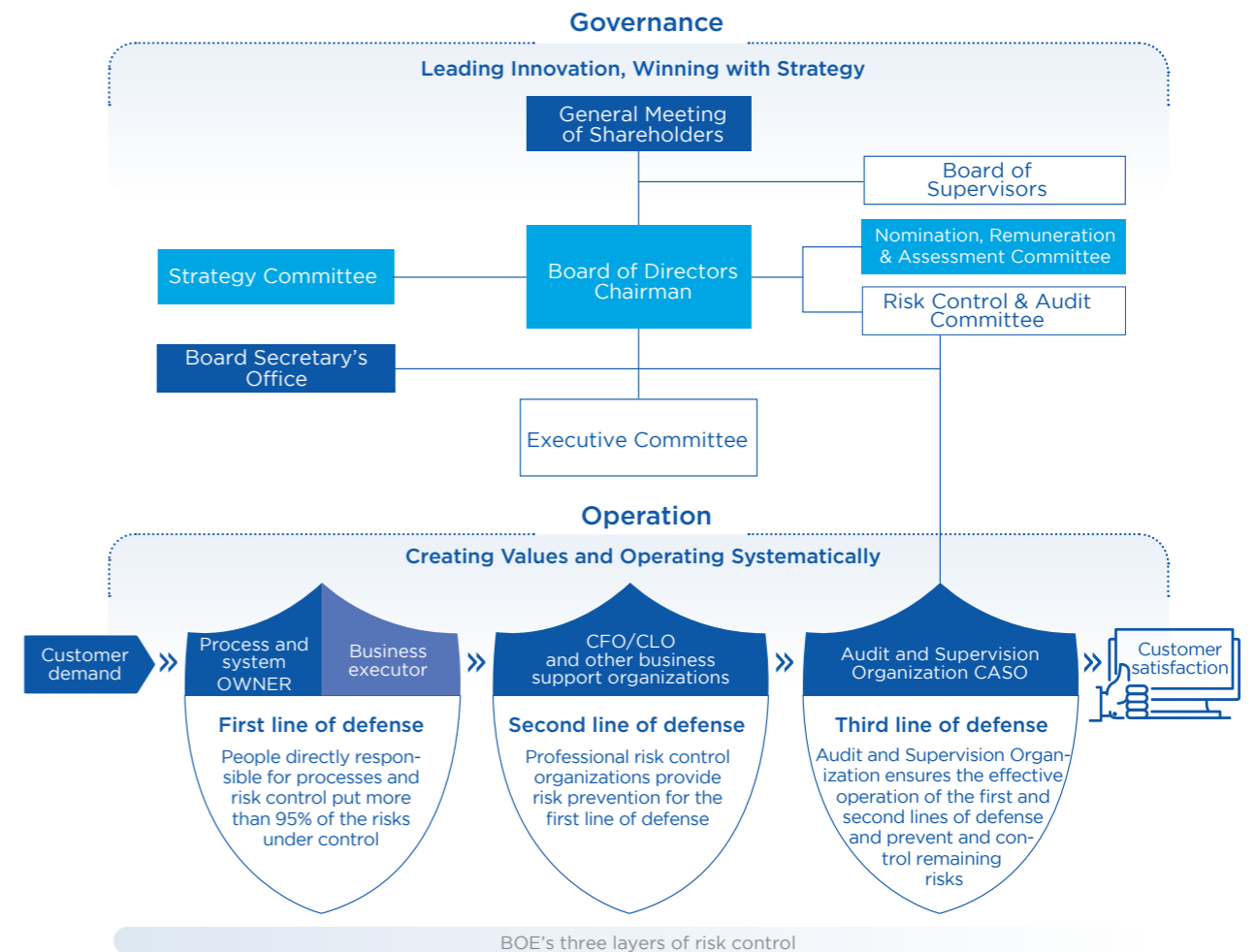
27 meetings of special committees of the Board of Directors

BOE main economic performance for 2020–2022

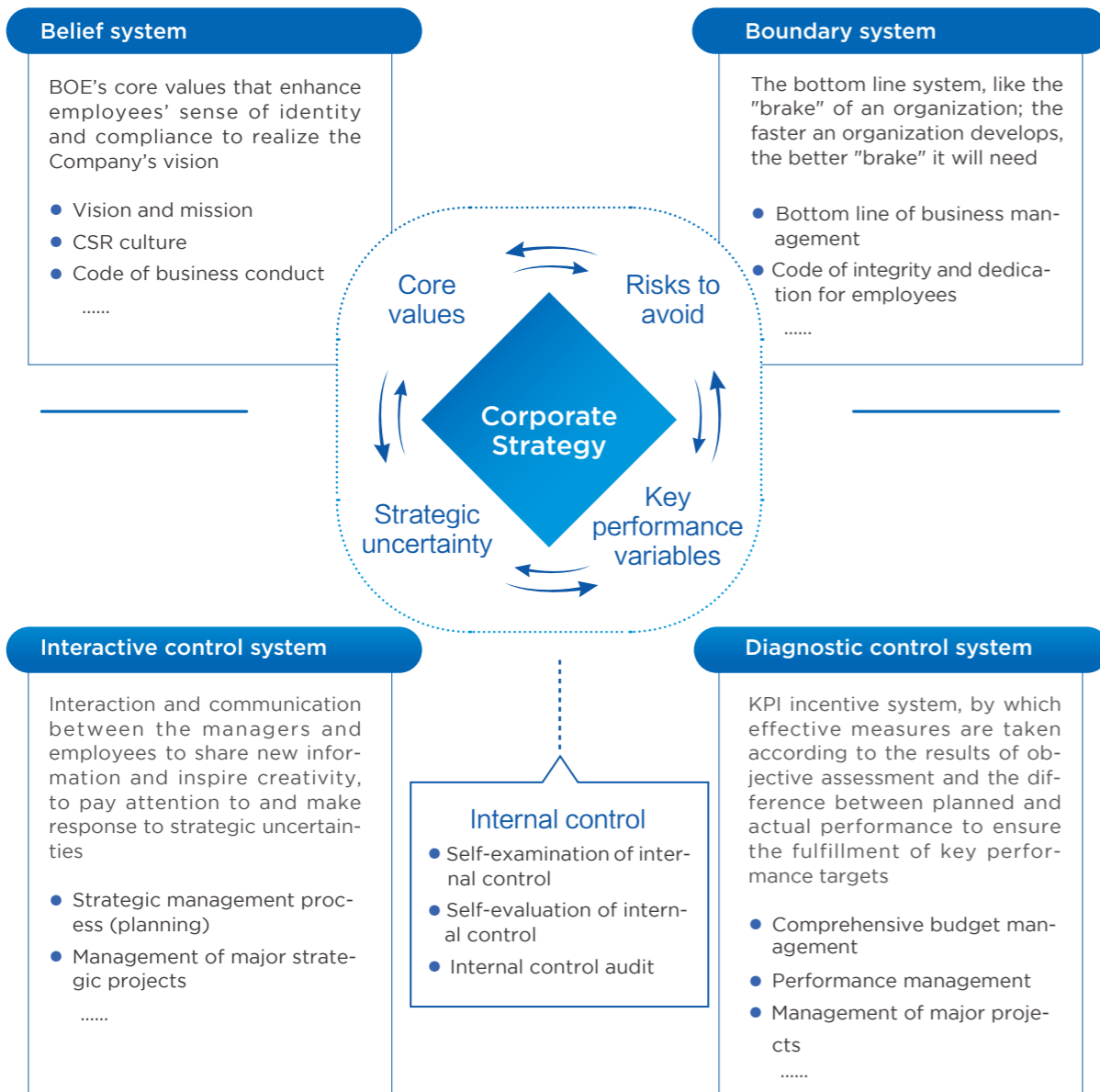
Economic performance (RMB)	2020	2021	2022
Total Asset	424,256,806,331.00	450,232,603,404.00	420,562,103,212.00
Revenue	135,552,569,729.00	221,035,718,012.00	178,413,731,179.00

Internal control management

BOE’s internal control follows the values and management methodology of “leading innovation, winning with strategy, creating values and operating systematically”. We establish customer orientation, rapid organizational response, concise and efficient processes, rapid business growth, and moderately controllable risks, that is, the management system prevents systemic risks with three layers of protection, namely customer orientation, business-driver, and the entire process. The Board of Directors and its Strategy Committee are responsible for risk management at the company level; the Board of Supervisors oversees risk management conducted by the Board of Directors; the permanent bodies of the Risk Control & Audit Committee under the Board of Directors are the internal control departments, responsible for overseeing and evaluating risk management.



Adhering to the internal control management principle of “integrating into business, based on processes, preventing risks, improving efficiency, and driving business success”, BOE establishes an internal control framework based on four coordinated systems, naming belief system, boundary system, diagnostic control system, and interactive control system, to ensure an effective operation and the realization of BOE’s strategies. We formulate the *Internal Control Management System* and the internal control specifications each year. We also require each unit to implement internal control responsibilities of overall management and of management in operation and financial reporting to guarantee our compliant and efficient operation. To better manage operations and investment, we have formulated the *Interim Measures for Investigation of Liability for Illegal Operations and Investment* to carry out investigation of liability, clarify the criteria for loss and accountability, and standardize relevant principles and working procedures.



Four control levers of BOE's internal control system

BOE's internal control system consists of examination, evaluation and audit by the Company. The process and system owners and the business executors are in charge of internal examination, which helps identify defects and correct them in time. The internal evaluation is implemented by the audit organization. Based on examination results, the design and operation of major risk areas and key control points are evaluated according to the regular and special evaluations, with a defect report and an evaluation report released. With such efforts, an overhaul is initiated and monitored, and the influence of events before and after the base date of the report is closely followed. Furthermore, we hire independent external accountants to conduct an independent and impartial evaluation of the internal control operations, and issue annual internal control audit reports.

In 2022, we built an internal control system that is compatible with the business structure of “1+4+N+ Eco-chain” in accordance with the regulatory requirements on listed companies and the second phase of SOPIC innovative transformation, we revised our internal control policies in line with digital reform to guarantee the implementation of innovative transformation. We also optimized the internal control standards of our overseas companies and the internal control manuals, promoted the online internal control examination, and carried out the audit of process efficiency and major investment projects and the compliance assessment of partners to better manage operations and investment.

Case ▶ BOE improves its digital capacity to boost corporate governance efficiency

In July 2022, the first National Digital Audit Forum was held under the theme of “Enhancing audit value through digitalization to promote digital transformation”. BOE’s internal audit monitoring platform building was awarded the Excellent Case of Internal Digital Audit. With the audit purpose of “identifying problems, preventing risks, adding value, and promoting BOE’s compliant and efficient development”, we built a comprehensive background service system featured by information centralization, data security, and real-time monitoring, with all-round “platform-based, process-oriented and standardized” services. It helps BOE to integrate data audit into business, improve audit quality and efficiency, and further ensure BOE’s compliant and efficient development.




BOE's internal audit monitoring platform building awarded the Excellent Case of Internal Digital Audit

■ Compliance operation

BOE is committed to fostering a corporate culture on high standards with the principles of business ethics and compliance. By optimizing management, policies, and operation, we continue to guide and regulate the business behaviors of employees, management personnel and partners, thus providing a solid guarantee for our long-term and sustainable development.

□ Code of professional conduct

We have formulated the *BOE Code of Professional Conduct* as a guideline for everyone in BOE to work with integrity and efficiency, firmly implement our strategies and regulations. The Conduct is also the iron law for staff's professional ethics. We organize the heads of each department, senior executives, and employees in key positions to sign the *BOE Declaration of Professional Ethics*. In 2022, a total of 3,197 declarations were signed.



BOE Declaration of Professional Ethics

- Comply with the confidentiality rules and regulations, and do not seek any personal interest by divulging or using the Company's confidential information
- Hold in high esteem the honor of their occupation, create value, and do not abuse power for personal benefit or damage the Company's interests
- Abide by the Company's rules and regulations to work in a fair and efficient manner. Do not take or offer bribes. Do not ask for bribes or commit corruption
- Efficiently collaborate to create shared value. Never prevaricate and set obstacles
- Report malpractices or the Company's management loopholes in a timely manner

□ Promoting fair competition

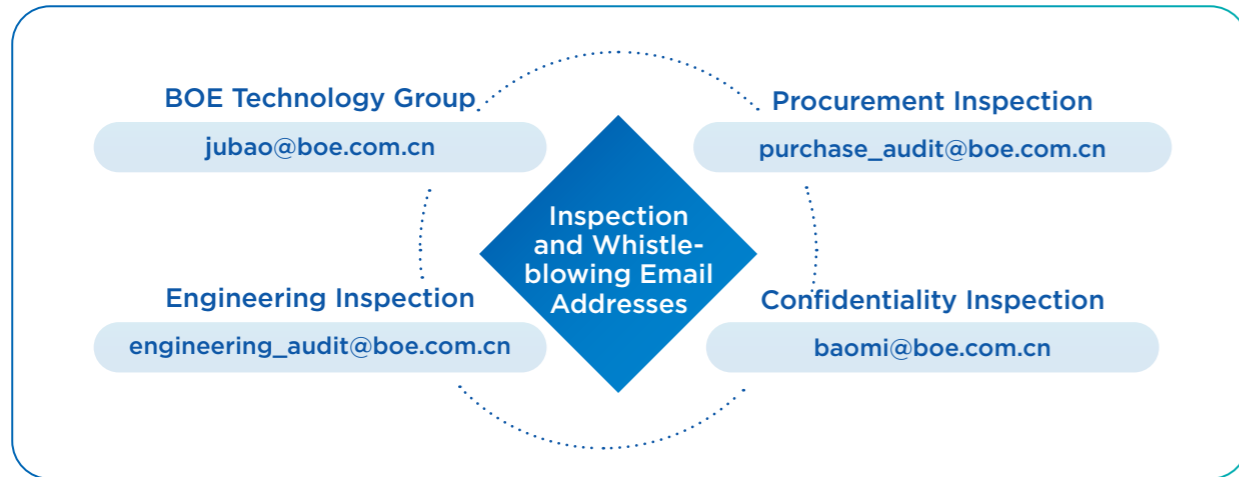
We believe in that leading technologies, innovative business models, and quality products and services are the key factors in competition. We advocate fair competition, respect every competitor, and draw inspiration from excellent competitors to constantly seek innovation and change. We strictly comply with relevant provisions of Chinese laws, such as the *Anti-monopoly Law of the People's Republic of China*, the *Anti-unfair Competition Law of the People's Republic of China* and the *Law of the People's Republic of China on the Protection of Consumer Rights and Interests*. We have formulated detailed compliance guidelines, and regularly publish *BOE Compliance of Express Delivery*, resisting unfair attempts to restrict or exclude market competition.

□ Creating a culture of integrity

We continue to optimize the integrity and dedication system in various ways. First, we have regular integrity assessments for partners to reach sincere and efficient collaboration. Second, we have built a Professional Ethics Disciplinary Committee to improve the system of integrity building, and regularly organizes warning education conferences to learn from experience, aiming to create a clean culture. Third, we conduct integrity and dedication training for employees engaged in key business and those in key positions and interactive integrity promotion through quiz and video etc. Such efforts can promote employees' integrity, diligence, and professional competency, thereby enhancing our business management.

BOE's integrity and dedication system	
Integrity and dedication system for employees	<p>Regulation system</p> <ul style="list-style-type: none"> • System scope: it covers the whole working cycle of employees from recruitment, employee practice, talent management, performance evaluation, manager's performance to resignation. • Regulations: <i>BOE Declaration of Professional Ethics, BOE Supervision Outline, Economic Responsibility Audit Management Measures, Fraud Investigation Management Measures, Blacklist Management System</i>, etc.
	<p>Education system</p> <ul style="list-style-type: none"> • The training course for integrity and dedication has been carried out according to different levels such as position, title and key business fields, including new hire orientation, daily integrity and dedication education and training for new managers, and integrity education training lectures for managers at all levels, key business areas & major project personnel.
	<p>Implementation system</p> <ul style="list-style-type: none"> • Strengthening the ability of the responsible persons and departments to perform their duties. • Establishing standardized and effective performance management, and set up incentive and commendation mechanisms.
	<p>Examination and supervision system</p> <ul style="list-style-type: none"> • Establishing multiple channels for anti-corruption, such as the mailbox, email, telephone and on-the-spot whistle-blowing, to accept broad public supervision. • After receiving the tip-off clues, the Audit and Supervision Organization or the business inspection department shall dispose of the clues according to the established working procedures, and establish a special investigation team to carry out the supervision and investigation.
	<p>Punishment system</p> <ul style="list-style-type: none"> • BOE has established a Professional Ethics Disciplinary Committee under the Executive Committee. The committee is, within the scope of authority of the Board of Directors and the Executive Committee, responsible for reviewing, supervising, and implementing punishments and rewards related to professional ethics.
Integrity and cooperation system for partners	<p>Integrity evaluation system</p> <ul style="list-style-type: none"> • BOE has established a set of rules and regulations shared with its partners: No procurement action shall violate the <i>Procurement Red Line</i>; all the partners are required to sign the <i>Integrity Agreement</i>, and their integrity record is required to be assessed. • BOE conducts full-life-cycle integrity management for partners, and provides training on quality, internal control, and integrity for partners who do not meet the standards. If partners are found to have fraud during the performance of the contract, they will be implemented in accordance with our <i>Blacklist Management System</i> and the <i>Fraud Investigation Management Measures</i>.

We unblock our reporting channels and allow people to send reporting information via phone calls, email, written letters, or visits. These channels are informed to stakeholders through internal briefing and external announcement to facilitate whistleblowers' reporting. All participants in the investigation are required to protect whistleblowers' identity to ensure the smooth investigation, and the investigation information remains confidential. All the information and materials in the investigation process are classified as top-secret and confidential documents before and after the punishment decision is made public, respectively. The information and materials involved during the implementation of punishment decisions are classified as secret documents before the announcement of result, and as internal documents after the announcement. This allows us to guarantee the rights and interests of whistle-blowers, as well as the information security.



Employee integrity training

□ Respecting IPRs

Intellectual property right (IPR) protection is in line with the social sustainability and BOE's development. We always strictly abide by IPR-related laws and regulations, respect the IPRs of all parties, and strengthen our IPR management. By the end of 2022, BOE held more than 80,000 independent patents.

Upon their recruitment, employees are trained, evaluated and re-educated on IPR protection from time to time to raise their awareness of IPR protection and risk control. In external procurement, joint development, technical cooperation, and other business activities, we actively adopt the terms of IPR cooperation to clarify patent rights and responsibilities with partners, avoid patent risks, and achieve win-win cooperation.

■ Protecting stakeholder's rights

BOE is committed to the concept of symbiotic development with investors. The Company actively and extensively listen to their opinions and suggestions, and create sustainable market value for them through scientific decision-making and effective management. At the same time, we actively expand our presence and develop more businesses. Rapid growth and win-win cooperation are what we can give back to our investors for their trust and support.

□ Investors service

We have a professional investor relations management team to enable the long-term, coordinated development of the Company and the capital market. We hold online meetings in a timely manner after major incidents to update them on our latest operating activities.

We have formulated and strictly implemented the *Investor Relations Management Measures* and set up a series of investor relations management processes to optimize the content and methods of investor communication and strengthen the organization and implementation of investor relations management. By drawing on the third-party professional services, we aim to improve communication efficiency and ensure compliance and fairness of investor relations management. We have set up a "Learn to Invest" column on our official website to further publicize relevant content related to investor protection. Additionally, we carry out education activities for investment through posters and Weibo to raise awareness about the importance of investor protection.

BOE provides customized services based on the characteristics and needs of different investors. The management experience in serving institutional investors can be boiled down to "wide coverage and deep cooperation". We also put a high value on the rights and interests of minority investors. On the premise of ensuring the legitimacy and effectiveness of the General Meeting of Shareholders, to which minority shareholders have easier access, such as online voting. We elect directors and supervisors under the cumulative voting system, which is more stringent than the requirements specified in the *Code of Corporate Governance for Listed Companies*. This allows us to effectively protect the voting rights of minority shareholders.

□ Investor communication

We communicate with our investors via our official website, new media platform, phone call, fax, e-mail, and other channels while carrying out General Meetings of Shareholders, investor briefings, roadshows, analyst meetings, receptions, forums. We continue to help investors keep posted on our development and information through multiple channels such as the "SSE e-Interaction" platform, regular online performance briefings, investor hotline, investor mailbox and field research.

In 2022

13 sessions of employee integrity training with more than 82,000 participants

0 cases of corruption that seriously violate the system, 0 major integrity incident

100% of anti-corruption reports responded and solved





BOE's General Meeting of Shareholders

In 2022

3 General Meeting of Shareholders

37 online and offline strategy meetings held by domestic and foreign institutions participated

1,015 receptions for institutional surveys

Nearly **800** questions received on "SSE e-Interaction" platform, with a **100%** response rate

More than **800** calls answered via investors hotlines



□ Shareholder return

BOE places significant emphasis on the shareholder return principle, one of the guiding principles of corporate management. We pay close attention to the interests of investors in our business operation. For the last few years, we have been paying cash dividends and buying back stocks to give back to shareholders. From 2018 to 2021, we had been allocating no less than 30% of our net profit attributable to the parent company to shareholders' dividends, an equivalent of over 13 billion RMB, to share the fruits of development with our investors. In 2022, the proposed cash dividends achieved RMB 2.298 billion, accounting for 30.43% of the net profit attributable to the parent company and 87.28% of the profit available for distribution in 2022.

In 2022

RMB **2.298** billions of proposed cash dividends, accounting for **30.43%** of the net profit attributable to the parent company

Nearly HK\$ **1** billion of B-share repurchase program

□ Information disclosure

BOE is committed to improving the disclosure quality while complying and providing investors with effective information, helping them make value judgments and investment decisions about the Company. In 2022, we revised *Information Disclosure Management Measures*, the *Liability for Major Errors of Annual Report Information Disclosure* and other information disclosure management policies. We continuously improved the approval process to disclose information in a true, accurate, complete, fair, and timely manner, thus constantly improving the quality and transparency of information disclosure.

Strictly complying with relevant laws and regulations, the regulatory documents of the CSRC and of the SZSE, we fulfill our information disclosure obligations through the SZSE website and media and newspapers that meet the standards set by the CSRC. Furthermore, we release the latest non-financial information on our official website, official WeChat account, Weibo account and other platforms to update the public in an all-round manner. In 2022, we had gained A (excellent) in the information disclosure assessment of SZSE for 7 consecutive years and won the Best ESG Disclosure Award of the 18th New Fortune Gold Board Secretary.

🎯 CSR Management Enhancement

Responsibility management is a critical part of BOE's business operations and sustainable development. We continue to enhance our CSR governance capability, cultivate a corporate culture with CSR responsibility, integrate the responsibility concept into our operations, and actively carry out stakeholder communication. Such efforts enable us to optimize the CSR management system and thus build a firm foundation for our sustainable development.

■ CSR philosophy and governance

BOE embeds sustainability into its corporate management and development goals. We continuously improve our CSR concepts and policies, raise employees' awareness on sustainability, enhance their ability and establish a sustainable performance management system. Updated, innovative, and unique methods for CSR management are encouraged. We have established an independent CSR Management Committee, which is responsible for promoting sustainability, with its work including studying and establishing related strategies, visions, principles and policies, handling sustainability-related matters, and participating in decision-making on related topics.

With the sustainability issues gather focus across the globe, BOE actively meets the sustainability requirements and expectations of its stakeholders. In 2022, we launched the Sustainability Partner program to mobilize all departments at BOE to carry out the sustainability action by innovating cooperation modes and integrating resources. Besides, we upgraded our magazine CSR Talk by adding the features of subscription and material collection to share cutting-edge information related to sustainable development on a regular basis. We also conducted online training and offline promotion of BOE Sustainability Reports for the first time and encouraged more employees to participate in "Promotion Ambassador of Sustainability Reports" activity to create a corporate culture with CSR responsibility.

In 2022

4 sustainability actions implemented under the Sustainability Partner program

3,277 employees participating in the “Promotion Ambassador of Sustainability Reports”



Board statement

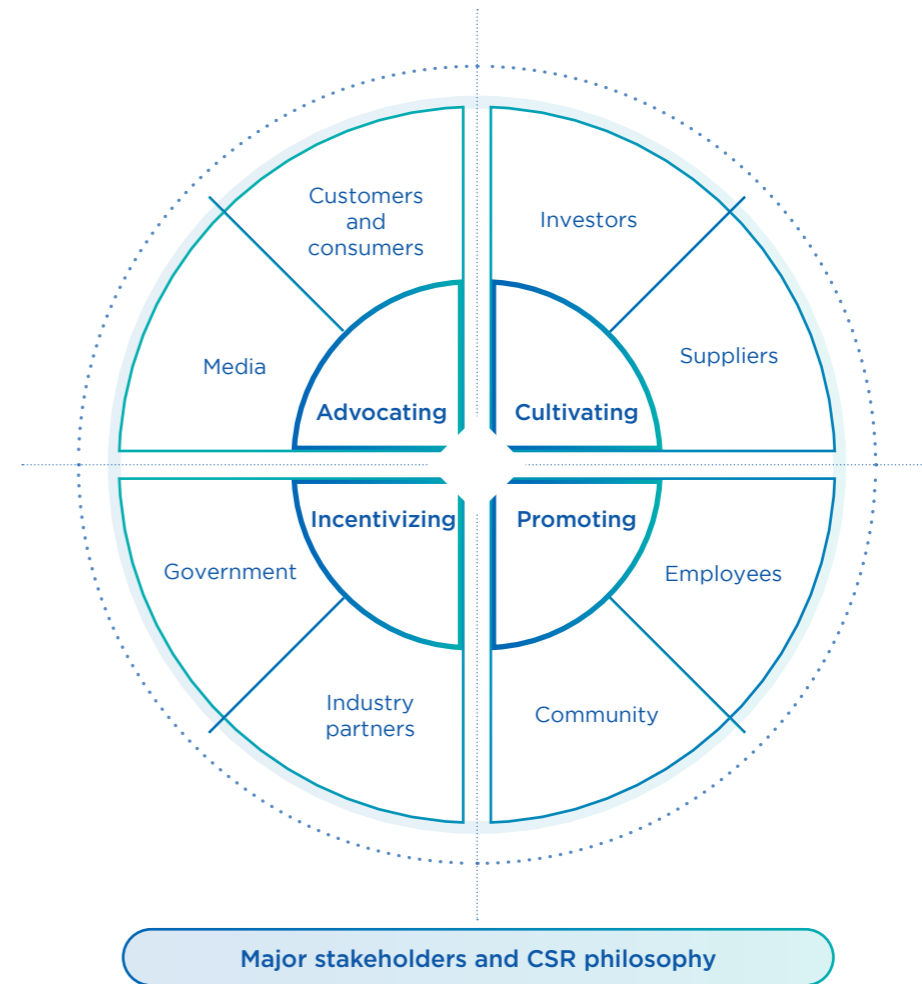
BOE always believes that good corporate governance and risk management process are significant factors for corporate development, which includes the management of sustainability matters that are critical to the Company’s sustainable development. The Board of Directors pays great attention to the sustainability issues and actively listens to stakeholders’ opinions. It aims to monitor sustainability matters that may have impacts on our business or operation and on the rights and interests of shareholders and stakeholders, thereby integrating the sustainability concept into BOE’s strategy. The Board of Directors listens to the report of the CSR executive and oversees the implementation of sustainability matters in BOE. The Board is responsible for approving and determining the results of stakeholder communication and Material Issues identification, reviewing and approving the annual sustainability report before it is released to the public. The annual sustainability report of the Company is released after its final approval.

In 2022, the Board continued to follow the major policies and priorities of sustainable development governance. It guides the Company to carry out sustainable development actions in corporate governance, technological innovation, environmental protection, community service and other fields, and regularly reviews the outcomes of these actions. This report makes a detailed disclosure of BOE’s sustainable development progress and performance in 2022 and was approved by the Board of Directors on March 31, 2023. BOE’s Board and all directors assure that the report is free of fictitious record, misleading statement, or material omission, and will be responsible for the report’s authenticity, accuracy, and completeness.

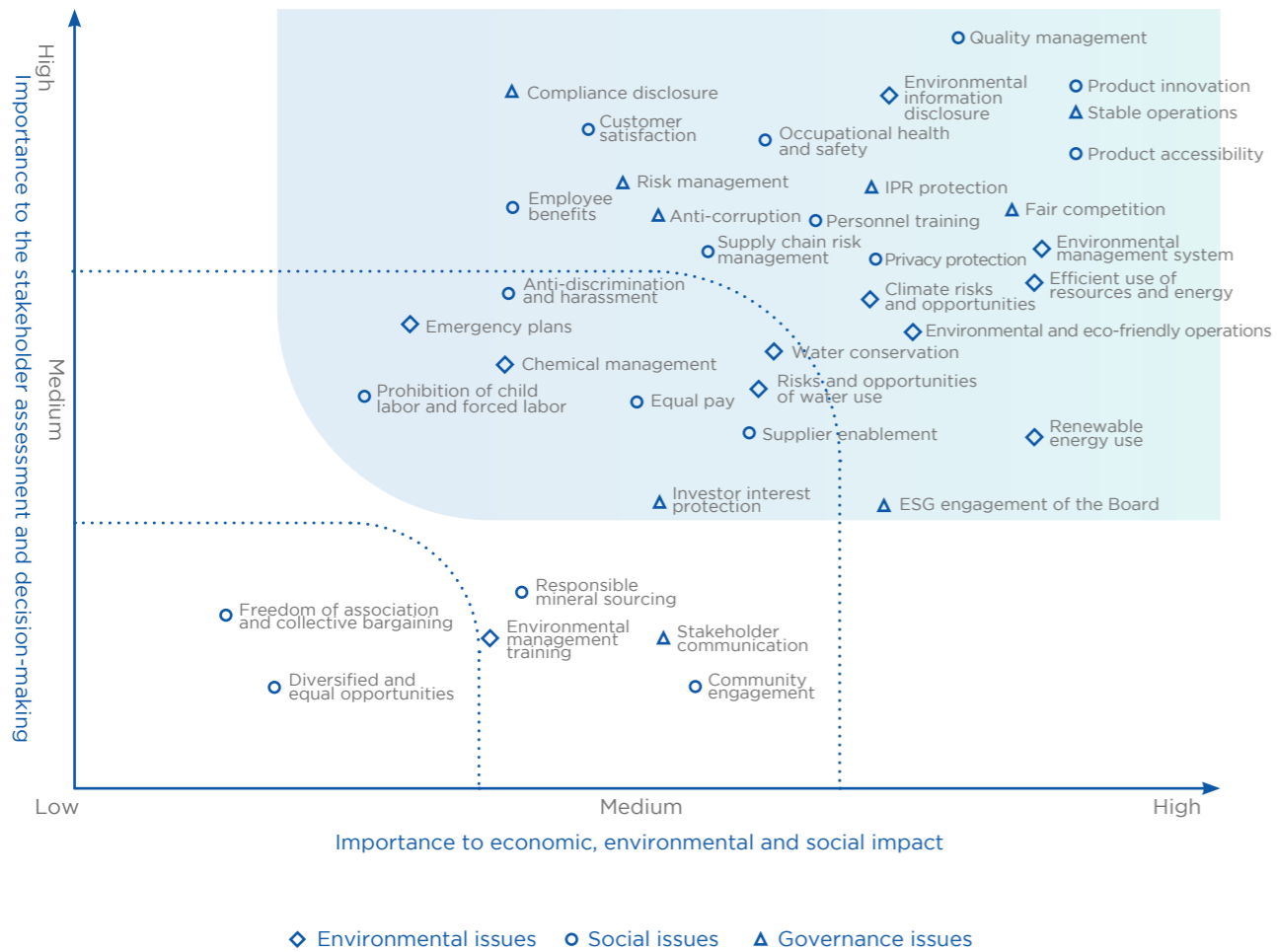


Materiality analysis

Based on the GRI Standards issued by the Global Sustainability Standards Board (GSSB), the BOE Sustainability Reporting preparation team identified stakeholders and material topics in 2022 based on the domestic and international trends of sustainability policies, benchmarking analyses, BOE’s corporate characteristics, internal and external questionnaire surveys, and expert reviews.



In 2022, to better identify material topics critical to BOE, the team summarized the opinions offered by our Company and major stakeholders and screened out key ESG issues. Eventually, it developed a questionnaire with 37 material topics, which was handed out to stakeholders and experts. They evaluated those issues and prioritized material issues from two dimensions, namely “importance to economic, environmental and social impact” and “importance to the stakeholder assessment and decision-making”, to produce a materiality matrix.



Finally, 31 topics (with Medium or high importance to the stakeholder assessment and decision-making as well as to economic, environmental, and social impact) that BOE needs to focus on (see the light blue areas in the figure above) were selected as the material topics disclosed in the 2022 sustainability report. They include 8 corporate governance topics, 10 environmental topics and 13 social topics.

■ Stakeholder communication

BOE steadily innovates its interaction with shareholders and actively meets their expectations and demands by taking practical actions, aiming to creating a better future with them.

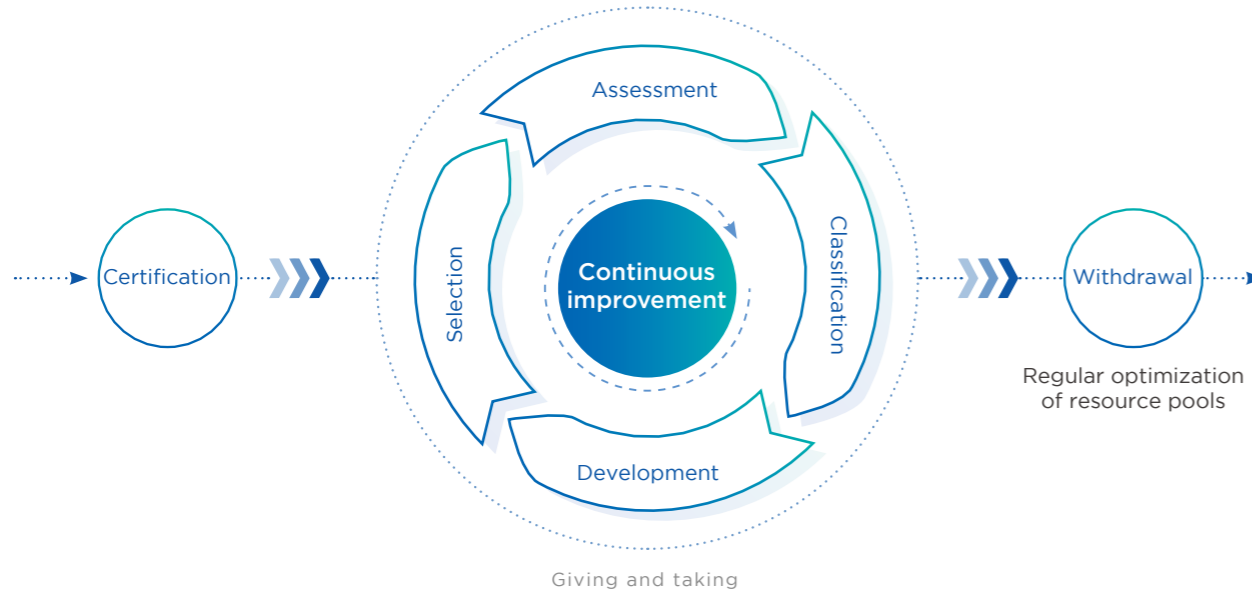
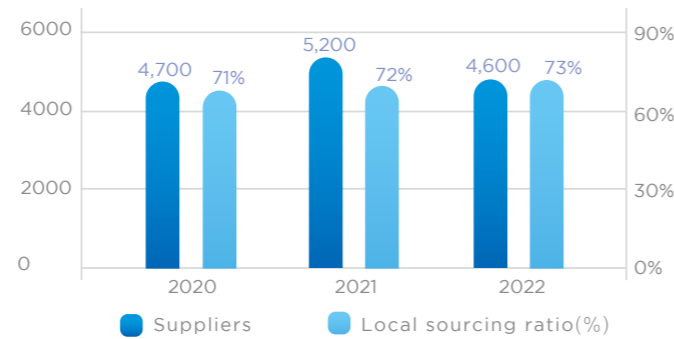
Content and methods of major stakeholder communications		
Stakeholders	Content of communication	Main methods of communication
<p>Customers and Consumers</p>	<ul style="list-style-type: none"> Compliant operations Product and service quality Customer needs Consumer rights and interests Customer health and safety 	<ul style="list-style-type: none"> Daily communication and visits Online real time customer service Customer satisfaction survey Customer service hotline Customer quality meetings Industry conferences, exhibitions, forums, innovation days
<p>Investors</p>	<ul style="list-style-type: none"> Status of corporate performance and operation Industry and market status and trends Investor Q&A 	<ul style="list-style-type: none"> Investor service hotline Investor investigations, on-site visit General Meeting of Shareholders "SSE e-Interaction" platform Online business performance meeting Investor service column on BOE's official website Investor mailbox Organization strategy meeting Roadshow and anti-roadshow
<p>Suppliers</p>	<ul style="list-style-type: none"> Compliance management and business ethics Attainment of quality targets Sustainability issues In-depth technical exchange Joint innovation Information sharing, business support, etc. carbon peak and neutrality 	<ul style="list-style-type: none"> Supplier training and seminars Supplier evaluation and audit Industry meetings and forums Suppliers Conference Annual/semi-annual strategic review, quarterly business review, quarterly quality review and quarterly technical review
<p>Employees</p>	<ul style="list-style-type: none"> Employee engagement in corporate development Career development and training Occupational health and safety Employees' rights and interests Compensation and benefits 	<ul style="list-style-type: none"> BOE Chairman's mailbox, Labour Union Chairman's mailbox, General Manager's mailbox, employee assistance mailbox and Complaints Box Meetings and interviews with employees Employee satisfaction survey Employee activities BOE periodicals
<p>Communities</p>	<ul style="list-style-type: none"> Pollution prevention and control Resource recycling Support for education and environmental protection Charitable services Integration into communities 	<ul style="list-style-type: none"> Information disclosure Field trip Questionnaire survey Charitable projects Community volunteer activities
<p>Industry partners</p>	<ul style="list-style-type: none"> Technical exchanges Collaborative innovation Industry development 	<ul style="list-style-type: none"> Industry conferences, seminars and other activities Project collaboration We join industry associations, including The Society for Information Display (SID), China Electronics Chamber of Commerce, China Optics and Optoelectronics Manufactures Association and China Federation of Electronics and Information Industry
<p>Government</p>	<ul style="list-style-type: none"> Policy implementation Industry development Corporate governance Regional economic development Employment Environmental protection Social charity 	<ul style="list-style-type: none"> Seminars Correspondence Examination and self-examination Charitable projects
<p>Media</p>	<ul style="list-style-type: none"> Corporate operations Corporate development CSR Information disclosure 	<ul style="list-style-type: none"> Interviews and meetings Key events for external communication Other public events for external communication Periodic reports and sustainability reports

Win-Win Cooperation

BOE is well aware that a healthy, stable, sustainable, and responsible supply chain is indispensable for the Company's solid development and the fulfillment of social responsibility. We maintain a close tie with our upstream and downstream partners in the supply chain and drive our supply chain partners to improve their production and management through systematic management, professional training and experience sharing. By doing so, we aim to adopt sustainability concept into the whole process of supply chain management and build a highly responsible supply chain system.

Supplier management enhancement

Following the principle of "giving and taking", we build strategic partnerships, and set up sound supplier management system with refinement. To effectively manage supplier performance, we carry out certification and regular assessment to optimize the supplier resource pool based on the evaluation results. Besides, we also classify our suppliers and develop corresponding cooperation/cultivation strategies to improve the supply chain competitiveness.



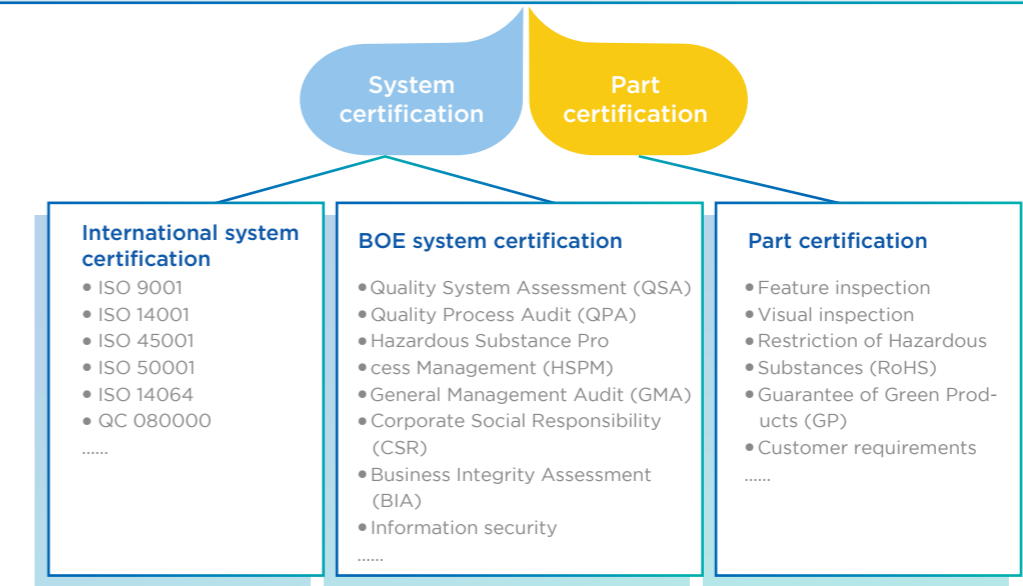
Procedures of BOE supplier management

Certification audit

Upholding the concept of fair procurement and equal opportunities, BOE selects suppliers based on the integrated optimal principle of technology, quality, service, supply, cost, environment, social responsibility, and information security. Our certification and audit of suppliers is divided into the system certification and the part certification. We aim to ensure that all transactions are conducted under strict management and the principle of integrity, compliance, transparency, and responsibility.



Supplier certification and audit standards



To ensure that the supplier evaluation system runs reasonably and effectively, BOE formulates and updates the supplier evaluation standards on an ongoing basis. During new supplier certification, we set up a certification and assessment taskforce to evaluate the general situation, including operation and management, technology R&D, production, quality management and control, environmental safety, hazardous substance management and control, CSR management system and business integrity assessment. And we lay down detailed assessment criteria and checklists. Only after being certified can suppliers become qualified. For suppliers in import and export business, we require them to improve their compliance and trade security management in accordance with the certification standards authorized economic operator (AEO). Only after being certified by AEO can suppliers be regarded as potential partners in our procurement.

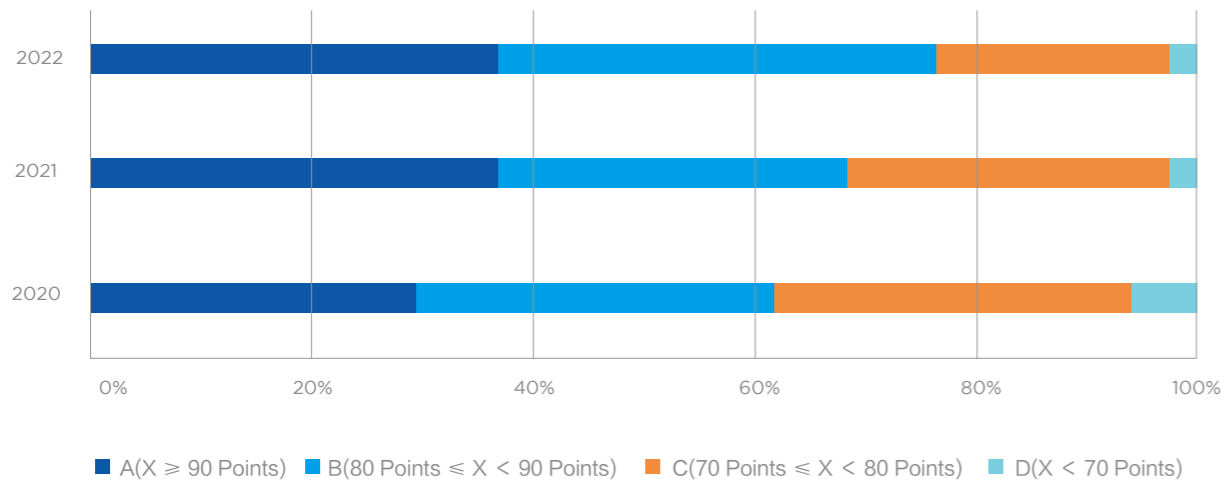
Performance assessment

BOE assesses the performance of suppliers quarterly and annually from technology/innovation, quality, responsiveness, delivery, and cost (TQRDC). Based on the regular assessment results, we prioritize new projects for high-performance suppliers and provide improvement counseling for suppliers with poor performance or, if necessary, disqualify them. We conduct annual factory audits for suppliers whose annual performance assessment grade is C and urge them to solve the problems found during the audit process. Meanwhile, we adopt the mandatory withdrawal mechanism. According to the mechanism, suppliers will face mandatory withdrawal if the assessment results are undesirable: 3 grade C or 2 grade D in a year or 5 grade C or 3 grade D in two years according to the quarterly performance results; grade D in a year or grade C for two consecutive years according to the annual performance results.

□ **Suppliers' CSR management**

In accordance with the Responsible Business Alliance (RBA) Code of Conduct, and SA 8000, ISO 14001, ISO 45001 and other international standards, relevant rules and regulations, as well as customer requirement, BOE has formulated the *BOE Supplier Code of Conduct*. We have put forward specific management standards on some aspects, such as CSR management system, labor, occupational safety and health, environment, and business ethics. Suppliers are required to make commitments by signing a letter to confirm the CSR Management Regulations for Suppliers, which is a prerequisite for supplier access.

We organize annual CSR self-assessment and on-site audit for suppliers to assist them in establishing and optimizing their CSR management systems, including labor, safety and occupational health, environment, and business ethics. In 2022, to further optimize the rules of supplier self-evaluation, we upgraded the supplier CSR evaluation form by adding audit questions and required labor-intensive suppliers or those with low process automation to carry out an annual self-evaluation. As a result, the number of suppliers with grade B increased while those with grade C and grade D decreased in evaluation result compared with previous years.



CSR performance assessment of suppliers from 2020 to 2022

□ **Labor (Human rights management)**

We have developed and released the *BOE Supplier Code of Conduct* in which we proposed clear requirements for suppliers and subcontractors in human rights management. The Code of Conduct covers 8 areas, including human rights, child/underage/female labor, forced or compulsory labor, working hours and break, basic wages and social insurance, non-discriminatory policies and behaviors, freedom of association and communication, and the policy development for employee rights. We conduct annual supplier self-assessment and on-site audit to ensure that suppliers comply with relevant regulations and that their labor rights are respected.



Scan the QR code to read the *BOE Supplier Code of Conduct* and learn about BOE's requirements for suppliers in human rights management.

BOE's requirements for suppliers in human rights management

Human rights

- Respect internationally recognized human rights standards and refrain from engaging in or supporting any human rights violations; treat all workers with respect, protect their dignity and refrain from engaging in or supporting corporal punishment, mental or physical coercion, verbal abuse, or inhumane treatment against workers.

Child/underage/female labor

- Prohibit adopting or supporting the employment of children and take effective measures to prevent inadvertent child labor.
- Establish and implement the child labor remediation procedure in accordance with national laws and inform all employees; encourage the target to attend school until he or she hit the minimum age for employment once an incident of child labor is identified.
- Protect children's lawful right in line with relevant laws if the underage workers are genuinely needed by employers, including but not limited to the prohibitions of working in hazardous positions and night shifts.
- Provide equal employment opportunities for women, except for those jobs that are not suitable for them; prevent arranging prohibited work for female workers; prevent arranging prohibited work for female workers in menstruation or pregnancy, including working at heights, in low temperatures, and in cold water; prevent arranging prohibited work for female workers who breastfeed their children for at least a year, including working overtime or night work. (The prohibited jobs are set according to local regulations.)

Forced or compulsory labor

- Prohibit adopting or supporting the employment of prisoners or outsourcing the production to prisoners.
- Sign employment contracts with employees, with the contracts concluded and amended in adherence to the principles of fairness, equality, voluntariness, consensus and to the laws and regulations.
- Terminate employment contract according to the laws, with written notice and compensation provided to the parties concerned in advance.
- Prohibit withholding wages, benefits, property, or documents from workers so as to force them to work against their will.
- Prohibit unreasonable restrictions on access to the offices and on the employees' freedom of movement in the workplace.

Working hours and break

- Comply with local laws regarding working hours and breaks.
- Keep accurate records of working hours whether the wages are paid on a time, piece rate, or other basis recognized by local regulations.
- Establish an effective overtime control mechanism to ensure that employees voluntarily work extra hours to safeguard their physical and mental health.

Basic wages and social insurance

- Pay at least the local minimum wages and provide benefits and overtime wages required by national laws; stipulate the working conditions, wages, and pay period in the contract.
- Pay wages in accordance with local government regulations with no delays.
- Provide employees with social insurance (including work injury insurance) as required by law and pay the insurance premiums according to the law.
- Employ dispatched and outsourced workers in compliance with the local laws.

Non-discriminatory policies and behaviors

- Prohibit discrimination (whether in policies or behaviors) of race, nationality, religion, disability, gender, marital status, political affiliation, or age in employment, compensation, training, promotion, dismissal, retirement, or other matters.
- Prohibit any threatening, abusive, exploitative, and sexually intrusive behavior (including postural, verbal, and physical contact) in the workplace, and residences and other places provided or managed by the company.
- Respect employees regardless of their races and religions and their customs and culture.
- Do not require staff to do pregnancy or virginity test in any circumstance.

Freedom of association and communication

- Establish organizations that can represent and protect the lawful rights of employees and can carry out legal activities independently, such as labor unions and labor councils.
- Prohibits discrimination, harassment, coercion, or retaliation against the members of workers' organizations and workers representatives and ensure that the representatives can communicate with the employees they represent at the workplace.
- Guarantee employees' lawful right to participate in democratic management and equal consultation through staff meetings, staff representatives.

Policy development for employee rights

- Establish regulations in accordance with the law to protect the legitimate rights of employees, including working hours, break, leave, wage payment, labor discipline, and dismissal, and publicize those regulations in an appropriate manner so that employees can access them at their disposal.
- Establish labor safety and health policy, implement local regulations and standards on labor safety and health, and provide corresponding education for employees to prevent accidents at work and reduce occupational hazards.

□ **Business ethics**

To build a transparent and healthy industrial ecological chain, BOE has formulated business ethics and integrity management measures for suppliers. Suppliers shall uphold the highest standards of integrity in all business interactions. Suppliers shall not engage in any form of bribery, corruption, extortion, embezzlement, and money laundering. All business dealings shall be transparently performed and accurately reflected on business accounts and records. In addition, suppliers shall not provide or receive any bribery, kickback, or any other forms of illegal benefits, including gratuities, securities, payment vouchers and improper gifts.

In addition, we also require suppliers to sign the *Integrity Agreement* and the *Procurement Red Line* and complete integrity assessment before certification and logging into BOE's supplier system. We also send the Official Letter on Integrity Operation to qualified suppliers every year, urging them to conduct integrity self-inspection for continuous improvement.

□ **Environmental management**

BOE has enhanced the supply chain environmental management policy to implement access verification and regular evaluations on the environmental risk management of suppliers. We also urge suppliers to continuously improve their environmental risk management in accordance with environmental licensing, reporting requirements, and standards on pollution prevention and resource conservation, hazardous substance management and control, as well as regulations on wastewater, exhaust gas, solid waste, noise, energy consumption and GHG emissions. We carry out supervision, audit, and hidden danger rectification to help suppliers improve their shortcomings in environmental management, such as lack of awareness of GHG emission reduction, thus promoting green and stable development of the whole industrial chain. In 2022, we added environmental management and audit criteria to evaluate suppliers' CSR performance and incorporated the carbon peak and carbon neutrality management into suppliers' corporate social responsibility to advance them to build a carbon emission management system.

□ **Safety and occupational health**

BOE attaches great importance to the safety and occupational health of suppliers' employees. We put forward an array of specific regulations for suppliers, such as hazard identification and assessment, creating a healthy and safe workplace, health and safety (H&S) supervision and emergency response, striving to ensure the safety and health of their employees.



BOE's regulations and requirements for the safety and occupational health of suppliers' employees

□ **Risk management**

BOE identifies risks from multiple dimensions and takes corresponding measures to ensure the stable and sound operation of the supply chain. We select at least two suppliers for each material procurement, and gain certifications for suppliers and their materials before formal supply. We have formulated the *Supply Risk Prevention and Control Management Benchmark*, which requires suppliers to pay attention to the environment protection policy on purchasing goods and to strengthen their compliance management. We select suppliers with excellent CSR performance and seek alternative solutions for materials in polluting industry.

We promote transparent procurement and adopt electronic bidding to prevent bid rigging, ensuring a fair, transparent, and traceable price comparison in bidding. We seek to forge strategic partnerships with trustworthy suppliers of core materials. More specifically, we give them priority to our cooperation in new projects, promote the joint development of new technologies, share the development information, and fulfill our joint responsibilities. We also fully consider the development, procurement, production, and delivery cycle for our supplies and set reasonable procurement lead time, enabling suppliers to provide supply with both quality and quantity in time.

BOE supply chain risk identification and response	
Macro environmental risk	<ul style="list-style-type: none"> • Conduct research and analysis on laws, regulations and environmental protection policies in key regions in advance, and convey the analysis results to suppliers, so as to prevent suppliers from stopping production or limiting production due to changes in laws, regulations and policies, thus affecting the supply
Management risk	<ul style="list-style-type: none"> • Carry out an annual evaluation on the general operating conditions of suppliers • Review suppliers' CSR management, including CSR management system, labor, safety and occupational health, environment and business ethics
Transport risk	<ul style="list-style-type: none"> • Select branded logistics suppliers and conduct KPI assessment to ensure their transportation safety. • Require suppliers to use a combination of multiple modes of transportation to respond to emergency supply and ensure a stable supply
Moral risk	<ul style="list-style-type: none"> • Establish a sound bidding process. When there are major engineering projects and procurement of important materials and equipment, BOE Audit and Supervision Organization and legal department, etc., carry out whole-process follow-up supervision, and separate bidding from bid evaluation, evaluation from bid selection, so as to ensure compliance and legality of the bidding process • Conducting integrity system certification and review on new suppliers. When signing purchase contracts, all suppliers are required to sign the <i>Integrity Agreement</i> and are informed the <i>Procurement Red Line</i> to avoid violations of business ethics and that cause damage to the Company's honest image

■ **Green supply chain building**

BOE has developed a green environmental management process from raw material procurement, product development to manufacturing, a comprehensive procurement process and a green audit system. We strictly use products, parts and materials with low environmental load and ask suppliers to follow international standards including RBA criterion, the ISO 14001 Environmental Management System, ISO 50001 Energy Management System, and ISO 45001 Occupational Health and Safety Management System.

Case ▶ BOE takes multiple measures to build a green supply chain

BOE believes that the green transformation of supply chain is crucial to achieving China's 30•60 Decarbonization Goal and the Company's carbon peak and carbon neutrality. In 2022, we carried out supply chain green development projects with our suppliers to achieve sustainable development. Specifically, we helped suppliers build green system and obtain international certification and required them to adopt standardized, harmless, and removable material design with low consumption to promote low-carbon and low-energy production. Furthermore, we improved the load factor to promote green transportation and encouraged suppliers to adopt green and recyclable materials in production. To practice the concept of energy saving, emission reduction and recycling, we continue to use recyclable materials in different objects, including PET Tray packaging and injection mold.

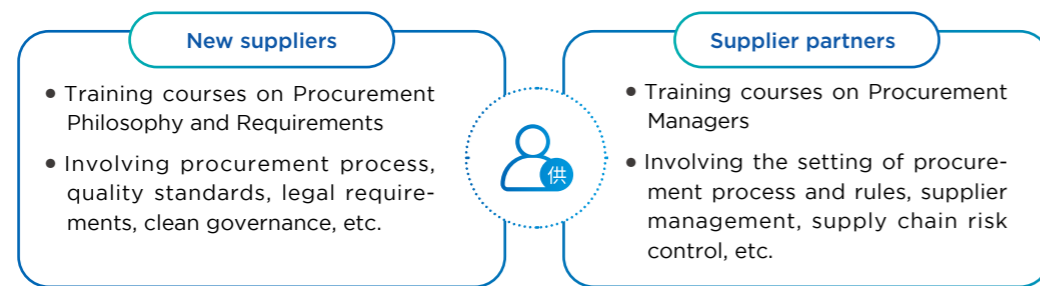
We have developed the green review principles and process for supplier. At the initial stage for introducing suppliers, they are required to sign the *Guarantee letter of green products* and informed of our management requirements for hazardous substances. During critical periods when the supplier enters the supply chain and the product development begins, we set up key control nodes to ensure products are environment friendly. We also provide regular third-party RoHS and halogen-free tests to make the products meet our hazardous substances control standard. Moreover, we review the environment of and hazardous material from material suppliers based on the *Quality Management Standards for Material Suppliers* and the high/medium/low-risk level. In 2022, no accident of hazardous substances exceeding the standard occurred.

■ Supplier empowerment

Leveraging our resource advantages, we sustain to offer various trainings and capacity building activities for suppliers to improve the governance of the supply chain, help suppliers achieve comprehensive development, and promote the responsible supply chain building.

□ Supplier training

Based on the needs of suppliers at different stages, we introduce informative training courses to motivate them to understand our management requirements, guaranteeing “in-depth cooperation, collaborative development and value co-creation” in the supply chain. In 2022, we organized 19 quality training sessions and a GP training session for our suppliers, with over 1,500 participants altogether.



BOE supplier trainings for different suppliers

For quality improvement, we organize a training and education for suppliers every year. In 2022, we organized a total of 19 quality training sessions for suppliers, covering the use of Total Quality Management System (TQMS), standard specification process, new supplier training and other aspects. In addition, we also conducted quality cost education, quality system training, quality tools application and other capacity building activities for 9 key material suppliers. Such efforts can help suppliers focus on quality and set up relevant projects, drive production automation and management standardization, and achieve significant improvement in quality performance of suppliers.

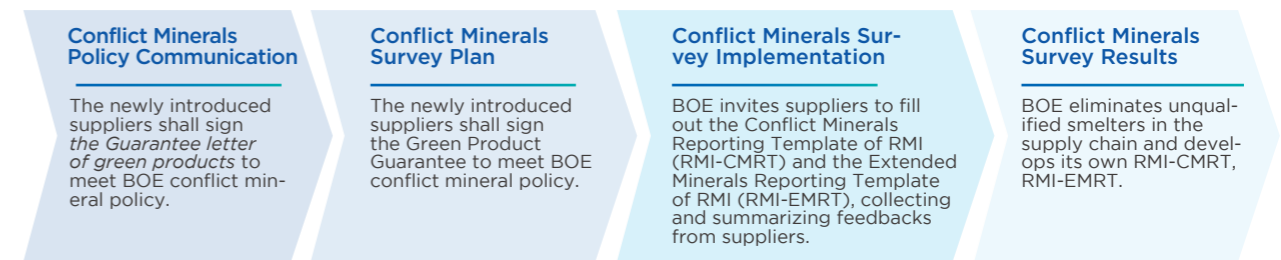
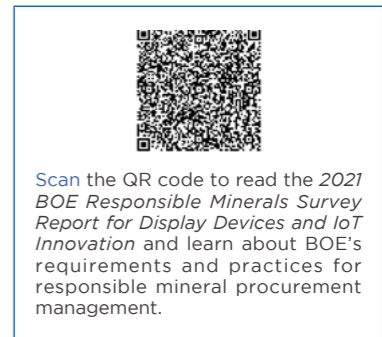
For environmental protection, we have developed a professional supplier training plan and promote it from both technology and management. We hold the supplier GP exchange conference every year. In 2022, there were 635 suppliers participating in the conference in which we exchange our ideas on such topics as testing technology of hazardous substance, sustainable development, and BOE’s path to achieve carbon peak and carbon neutrality. Through the exchange and on-site Q&A, we conveyed our GP management requirements for suppliers and explained our sustainability ideas, which enhanced not only our image as a responsible company in terms of environment, but also the environmental protection control capabilities of suppliers.

□ Supplier capability development

BOE highly values and actively supports the development of suppliers’ capabilities and launches the supplier development plan. Upholding the concept of “in-depth cooperation, collaborative development and value co-creation”, we aim to achieve win-win cooperation with our suppliers by providing a comprehensive cross-organizational training for them from nine dimensions, namely finance, technological innovation, production operation, quality, cost effectiveness, risk, service, culture, and organization. In 2022, we launched the training program for three suppliers and carried out the first training for Tier-2 suppliers, strengthening our communication and collaboration with upstream suppliers and achieving industrial collaboration and value co-creation.

■ Responsible mineral procurement

BOE strives to promote responsible mineral procurement. Complying with the Responsible Minerals Initiative (RMI), the *OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas* issued by UN and OECD, and other regulations, we regularly publish the *Responsible Minerals Survey Report* to ensure that all suppliers procure minerals in a responsible manner and respect human rights and the environment in areas affected by conflicts. From 2020 to 2022, 100% minerals we purchased were from conflict-free areas.



BOE conflict mineral management process



BOE uses the CMRT and the EMRT developed by the RMI to conduct conflict mineral surveys of suppliers every year. In 2022, we investigated 173 suppliers that provide resistors, inductors, capacitors, IC, LED, connectors, metals and other products that may contain gold, tantalum, tungsten, tin, cobalt or mica. According to the results, the minerals mentioned above in BOE’s raw materials come from 260 RMI qualified smelters (including 33 cobalt suppliers), meeting BOE’s supply standards.

Science and Technology: Innovation Drives Development

Innovative technology is the endogenous impetus for industrial ecology evolution and transformation. As a global technology enterprise, BOE has respected technology and persisted in innovation for years. By strengthening technological breakthroughs and integrated innovation, BOE advances forward-looking basic technology research and high-value patent layout, empowers numerous application scenarios with innovative technology, and continuously changes the life with heart.



Improving the Core Innovation Capacity

BOE consistently improves its core innovation capacity. By carrying out R&D in basic and cutting-edge technologies, BOE focuses on building a technological innovation management system to sustain leadership in the future. BOE has been expediting the transformation of scientific and technological achievements, facilitating the formulation of professional standards, and propelling its own development and high-quality industrial growth through sci-tech innovation.

Accelerating the commercialization of achievements

BOE creates a “1+1+3” technological innovation platform, comprising a national engineering research center, an innovation head office, and three innovation sub-centers in Beijing, Chengdu, and Hefei. Through its huge product platform composed of 17 leading semiconductor display production lines and four intelligent manufacturing plants, BOE has been continuously promoting the commercialization and application of technological R&D achievements.

Upholding the collaborative and shared technological innovation philosophy in which “patents empower small and micro enterprises and technology contributes to public welfare development”, BOE increases efforts for building a patent pool themed on “Fostering Climate, Empowering Growth and Promoting Development.” In 2022, we participated in the pilot project of Beijing Open License, witnessing the release of advanced technology patents in computer vision, voice and natural language processing, adaption to the elderly, and helping the disabled on the Patent Open License Information Publishing and Trading Service Platform of China Technology Exchange. The release would facilitate small and micro enterprises to obtain patent license information and help their high-quality development.

As of the end of 2022

Over **80,000** patent applications in total, **2** patent gold awards, **3** patent silver awards, **25** patent excellence awards and **1** design excellence award in total

In 2022

Ranked **11**th among the US Granted Patents by IFI, among **TOP20** for five consecutive years²

Ranked **7**th in the global Patent Cooperation Treaty (PCT) applications, among **TOP10** for seven consecutive years



- Awarded “Lighthouse Factory”, the highest honor in the field of intelligent manufacturing in the world, as the only and first display enterprise in Chinese mainland
- Listed among Clarivate Top 100 Global Innovators 2023

2.Source: 2022 Statistical Report released by IFI Claims.

Promoting the formulation of standards

BOE has presided over and participated in the formulation and revision of international standards such as ISO, IEC and ITU, as well as domestic and international technical standards including Chinese National Standards, electronic industry standards, and group standards. These standards cover a wide range of technical fields, including LCD, flexible OLED, MLED, UHD display, health display, smart window, fingerprint recognition, IoT, smart finance, and mobile health.

As of the end of 2022

Presided over and participated in the formulation and revision of **329** domestic and international technical standards



International standards

The *Internet of Things (IoT) - IoT applications for electronic label system (ELS)* (ISO/IEC 30169: 2022), the world's first ISO/IEC international standard for IoT applications for electronic label, the *Flexible display devices - Part 2: Essential ratings and characteristics* (IEC 62715-2:2022), the first IEC international standard for flexible display devices in China, and the *Measurement methods of blue light characteristics and related optical performance for visual display terminals* (IEC 63207:2022), the first IEC international standard for health display in China, were officially released.



Industry standards

A number of electronics industry standards, such as the *Flexible display devices-Part 3-1: Detail specification of edge-bended flexible display modules* (SJ/T 11847.3.1-2022), the *Flexible display devices-Part 3-2: Detail specification of outward foldable flexible display modules* (SJ/T 11847.3.2-2022), the *Measuring methods for optical performance for vehicle head up display* (SJ/T 11834-2022), and the *General specification for electronic painted screen* (SJ/T 11819-2022), were officially released, in order to comprehensively lead the high-quality development of semiconductor display industry.



Group standards

Eight group standards, such as the *Technical requirements of liquid crystal display module using Mini-LED backlight units for Notebook PC* (T/ZSA 115-2022), the *Internet of things-Technical requirements of management and control system for smart bank branch* (T/IQA 14-2022), and the *Technical requirements of the public display system (indoor LCD) of UHD video and audio broadcasting system for “Bai Cheng Oian Ping”* (T/UWA 012-2022) were released, in order to promote industrial innovation and achievements application with upstream and downstream partners of the industrial chain.

BOE achievements in main standards released in 2022

Creating the Innovative Display Technology

BOE is dedicated to offering customers top-quality products and services across display fields, constantly enriching people's visual enjoyment, and leading the industry to a new height in human visual experience.

Traditional display

Based on its three technology sub-brands of ADS Pro, f-OLED and α -MLED, BOE continuously improves the innovation capacity in display technology and products, bringing consumers a brand-new, eco-friendly product experience.

8K UHD

BOE is dedicated to promoting the development, popularization, and ecological construction of the UHD industry. BOE boasts 8K UHD display terminals ranging 55, 75, 86, 98 and 110 inches, and various sizes of 8K professional display products. We have also provided 8K professional display for the first 8K+5G outside broadcast van in China. Our 8K UHD solution that integrates 5G and AI technology has been successfully applied to major events and broadcasts, including international ice and snow events in 2022, CCTV Spring Festival Gala, FIBA Basketball World Cup, and China Open. Our independently developed ADS Pro display solution provides 8K products with full viewing angle, wide color gamut, no color shift, and ultra-high refresh rate, enabling users to experience more realistic images and smoother visual enjoyment.



The BOE MAX 110-inch 8K peak-level smart version won the 2022 Red Dot Product Design Award in the category "TV and Home Entertainment"

OLED

In the field of OLED, BOE has rolled out a plethora of multimodal display products, including curved display, full-screen display, out-folding display, in-folding display, display that bidirectionally folds up to 360 degrees, slidable display and roll-up display. Compared to Q8, the Q9 light-emitting device sees power consumption decrease by 15%, the DCI-P3 color gamut increase from 110% to 116% and the service life improve by 10%, while the ratio of harmful blue light is kept below 6.0%, far below the industry average. BOE also unveiled its new proprietary Blue Diamond™ pixel architecture, with an optimized underlying logic structure of pixel display, greatly reducing the graininess of displays. Even when the tiny text is magnified by dozens of times, the displays can deliver delicate UHD image quality, improving the overall visual effects by 20%.

MLED

BOE released its first LTPS P0.9 glass-based MLED display product. The product adopts a new process route of LTPS combined with thick Cu, and makes full use of the high charge mobility of LTPS to significantly improve the luminous efficiency and brightness uniformity of display devices. In addition, BOE's proprietary AM transparent MLED display product features an ultra-high transmittance of above 65% and brightness of over 1,000 nit, at a leading level in the industry. Plus, BOE has actively expanded MLED application scenarios and launched a variety of MLED products and solutions for the likes of commercial exhibitions and displays, in-vehicle HUD display and AR glasses, promoting the application and development of Mini/Micro LED technology.



BOE 86-inch COG AM Mini LED won the SID DIA Award - 2022 Display Component of the Year

Sensors and Solutions

The sensors and solutions business focuses on the photoelectric sensor technology, which contains medical imaging, biological detection, and smart window. We provide customers with intelligent solutions in subdivision scenarios and continually support scenario upgrades.

Business layout

BOE created a new silicon-based and glass-based wafer-level sensing test line for R&D tests of sensing products such as IC substrates and pressure microphones.

Standards formulation

BOE participated in and drafted the *Electrochromic glass* (JC/T 2631-2021); and led the formulation of the group standard the *Technical specifications of thin film transistor optical fingerprint capture devices* (T/CESA 1222-2022).

R&D of technical products

BOE launched the LTPS APS high-sensitivity photoelectric sensing technology products; and completed the development of a digital microfluidic system platform and achieved a transition of biological detection business from chips to complete solutions.

Development of solutions

Electrophoresis chip solutions have filled the gap in mass production at home and accelerated industrialization of domestic medical devices.

BOE major measures to promote the development of the sensing field in 2022

Case ▶ BOE delivers electronic dye liquid crystal switchable glass to Beijing Sub-Center Library

In March 2022, BOE delivered 1,350 m² of electronic dye liquid crystal switchable glass to Beijing Sub-Center Library. Beijing Sub-Center Library combines functions such as knowledge dissemination, urban think tank, learning, and sharing. Drawing its design philosophy from the traditional Chinese cultural symbol "red ink paste used for seals," the library features a tree-shaped roof resembling a forest canopy, inspired by ginkgo tree leaves, representing its functional positioning of imparting knowledge and spreading culture. This project ingeniously creates an artificial virtual canal crafted from electronic dye liquid crystal switchable glass. As the interplay of light and shadow transforms, it evokes the image of a river in motion suspended in the air, bringing the building to life and infusing it with more sophisticated cultural connotations.



1,350 m² of electronic dye liquid crystal switchable glass delivered to Beijing Sub-Center Library

Empowering the IoE with Intelligence

Leveraging 30 years of industry know-how, BOE has devised the “Screen of Things” development strategy, equipping screens with the ability to integrate more functions, taking on more forms, and fitting more scenarios. By accelerating the integration and symbiosis between the new-generation information technology and the real economy, BOE empowers the Internet of Everything (IoE) with innovative technology, leading a more convenient and better intelligent future.

Smart finance

BOE constantly assists financial institutions in smart transformation and upgrading through IoT solutions, as well as innovation based on the fusion of technology and finance. By the end of 2022, BOE has provided smart upgrade services for more than 3,000 banking outlets nationwide.

Case ▶ BOE teams up with China Minsheng Bank to launch smart bank experience branches

In 2022, the smart bank experience outlets jointly launched by BOE and China Minsheng Bank successively came into operation in branches in Beijing, Nanjing, Shenzhen, Chengdu, Guangzhou and Kunming. Through the fusion of AI, big data, IoT and other technologies with finance, BOE helped China Minsheng Bank create a unique “screen + platform + software + content” one-stop software-hardware integration smart financial solution, which has greatly promoted the transformation of its outlets. With the vision of “smart bank + technology finance” in mind, BOE has employed emerging technologies such as biometrics and AI to help the bank set up five smart spaces for reception, perception, experience, services, and sharing, creating a brand-new financial service ecosystem.

Smart retail

Utilizing intelligent terminals like electronic shelf labels (ESL), intelligent displays, and self-service POS devices, BOE delivers an all-encompassing digital solution for the retail industry, combining “hardware products + software platform + scenario applications” to substantially boost operational efficiency. In 2022, to further promote standardized smart retail and low-carbon products, BOE released the world’s first international standard: *Internet of Things (IoT) - IoT applications for electronic label system (ELS)*, filling the gap in the industry. Further, BOE’s ESL product received a product carbon footprint verification report.

As of the end of 2022

BOE retail IoT solutions were provided to more than **300** retailers and more than

35,000 stores around the globe

Over **350** million ESLs were shipped worldwide



BOE smart retail solution won the Annual Excellent Solution in the China Software and Information Service Industry at the 5th Annual China Software and Information Service Industry Ranking in 2021



BOE smart retail solution applied in Watsons

Smart parks

Based on “Screen of Things” strategy, BOE harnesses technologies such as IoT, cloud computing, big data, and AI algorithm to create an integrated digital platform for parks. This aids in the adoption of smart park solutions in over 20 cities, including Beijing, Tianjin, and Chongqing. In tandem, BOE has joined the SAC/TC426/WG5 to promote the establishment of a standard system for parks.

Case ▶ BOE delivers a smart office park solution, setting a new benchmark for digital transformation of office parks

In 2022, the office park operation and management (O&M) platform developed by BOE for the ZODIAC ICC office building within the Universal Business Park (UBP) in Beijing was successfully launched. As the first-ever smart office park project delivered by BOE in China, the ZODIAC ICC office building features an IoT solution integrating software and hardware. Through visible management, efficient operations, and considerate services, the office park is poised to be a dynamic, self-driven enterprise development incubator, setting a new standard for digital transformation in office parks through smart management, services, and office.



BOE office park O&M platform

Smart travel

BOE persistently leverages innovative technology to empower a variety of sub-application scenarios in smart travel, providing safer, more convenient, and more comfortable new experiences for both personal and public transportation.

Case ▶ BOE's all-media managing system empowers Chengdu Metro, helping upgrade digital media through innovative IoT technology

In 2022, BOE's independently developed all-media managing system was applied to Chengdu Metro, providing smart all-media upgrade services integrating software and hardware for a dozen of key stations. Featuring "AloT + digital media," the platform combines a host of next-generation information technologies such as AI, big data, and the IoT and boasts multiple strengths such as a digital visual media operations center, smart media content editing and broadcasting, and compliance with the Cybersecurity Classified Protection Certification Level 3 standard. It provides efficient, secure and reliable IoT solutions for media operations on metro.



BOE's all-media managing system applied to Chengdu Metro

Case ▶ "Screen of Things" empowers smart travel

In 2022, BOE delivered a smart bus station and smart bus shelter solution for Tongzipo Road in Changsha, Hunan province. By integrating hardware and software components such as display terminals like BOE iGallery, smart public service amenities, and smart bus management and control platform, the solution is aimed at empowering smart travel with "Screen of Things" for digital upgrading and optimize travel experience for residents. The setup encompasses a range of functional facilities, such as digital bus stop sign, smart restroom, charging seat, nursing room, and vending machine. Further, both smart bus station and smart bus shelter are eco-friendly, modular temporary buildings that spare land resources and can be lifted and reused elsewhere as needed.



Smart bus station and smart bus shelter solution provided by BOE for Tongzipo Road in Changsha

Smart education

BOE has launched an array of smart campus hardware products, like paper-like eye protection networked smart blackboards, paper-like eye protection capacitance smart blackboards, paper-like eye protection smart interactive iGalleries, and campus iGalleries, to develop accessible and efficient smart classrooms for teachers and students. Moreover, these products come embedded with a rich campus software ecosystem, offering an abundance of subject resources like courseware, exercises, course videos, and electronic textbooks, along with over 10,000 classic art pieces, facilitating the development of campus aesthetic education.

BOE persistently innovates and fosters more eye health software and hardware products and services. In 2022, BOE successfully mass-produced a series of software and hardware technologies, such as intelligent human-centric dimming, self-developed eye protection monitoring APP, visual fatigue index, concentration index, electronic eye chart, and big data eye use report. Besides, a number of international and industry standards were released, such as the *Measurement methods of blue light characteristics and related optical performance for visual display terminals* (IEC 63207:2022) and the *General specification for electronic painted screen* (SJ/T 11819-2022). We carried out industry-university-research cooperation with institutions such as the Eye and ENT Hospital of Fudan University, Beijing Tongren Hospital, Zhejiang University Eye Hospital, the Institute of Child and Adolescent Health of Peking University, and the China National Institute of Standardization, aiming to create a multi-faceted health display ecosystem for eye protection that covers mechanism research planning, health display technology, and visual health monitoring.



Application of BOE smart campus hardware products

Digital culture

BOE continuously promotes the application of digital cultural display products and technologies to facilitate cultural innovation through digital technology. We are dedicated to revitalizing museum resources and developing ubiquitous, benchmark digital cultural experience scenarios by digital means, enabling exceptional culture to penetrate everywhere.

Case ▶ BOE invests in building an all-scenario multi-functional digital art museum

In 2022, BOE invested in building the Suzhou Bay Digital Art Museum, an all-scenario multi-functional digital art museum. The museum is a modern digital cultural experience venue, incorporating a digital art exhibit, an industry alliance base under the H.629.1 international digital art display standard, a showcase for culture-technology integrated innovations, and a youth aesthetic education and science popularization base. It features a permanent exhibition hall, a special exhibition hall, a public education center, a multi-functional hall, an art shop, an art canteen, and other versatile spaces. Upon open to the public, the museum will unveil brand-new permanent digital art exhibits available both online and offline. By organizing renowned IP art exhibitions, important domestic and international artist exhibitions, interdisciplinary academic forums, lectures, and public education activities, the museum will deliver rich cultural and artistic experiences to audiences in the Yangtze River Delta region.



Suzhou Bay Digital Art Museum

■ Smart energy

Aligning with the development trend of the energy IoT industry, BOE focuses on zero-carbon integrated energy services and bolsters the strategy of “technology + application.” In typical energy application scenarios such as industry, commerce, parks and public facilities, BOE offers “power source, power grid, energy loading, energy storage, carbon” integrated zero-carbon energy services through “source decarbonization, in-process carbon reduction, smart carbon management” to satisfy customer demand for efficient, smart, safe, and stable energy consumption.



- Rated GSC 5 (Excellence) by green and low carbon service capacity
- Rated ESC 5 (Excellence) by integrated energy service capacity

□ Source decarbonization

In 2022, we advanced the construction of the 200 MW integrated demonstration project for animal husbandry, photovoltaic (PV), and energy storage in Sunite Right Banner, Xilin Gol League, Inner Mongolia. The project is expected to generate roughly 420 GWh of green power annually and decrease CO₂ emissions by approximately 290,000 tons per year. Employing the innovative integrated demonstration approach of “PV farming + sand control + energy storage”, the project incorporates various cutting-edge new energy technologies and equipment to enhance power generation efficiency and encourage breakthroughs and progress of technology applications in the new energy industry.

As of the end of 2022

Self-owned PV power stations had a total capacity of **612** MW to generate roughly **800** GWh of green power annually and decrease CO₂ emissions by approximately **550,000** tons per year



200 MW integrated demonstration project for animal husbandry, photovoltaic, and energy storage in Sunite Right Banner, Xilin Gol League, Inner Mongolia

□ In-process carbon reduction

BOE intensifies its commitment to developing a core energy-saving capacity system through promoting green energy-saving services. By expanding businesses like boosting energy efficiency of industrial systems and smart public service and building energy-saving in such cities as Beijing, Shanghai, and Guangzhou, we expect to save nearly 90.63 GWh/year in power and cut CO₂ emissions by around 48,000 tons/year. We earnestly encourage to adopt smart lampposts in urban intelligence. While reducing the energy consumption of municipal facilities, these lampposts facilitate the integrated development of urban transport as terminals acquiring city information.



BOE's integrated management platform for LED street lamps, smart lamppost smart integrated lamppost, and smart roads was selected into the *Library of Beijing Green Industry Projects*

□ Smart carbon management

BOE enhances the IoT, application, and ecological comprehensive capabilities of “multi-energy efficient and integrated utilization, integrated dispatching of energy supply, distribution, and storage, and energy IoT platform”. The BOE Smart Energy Operating System BSEOS 2.2 (including multiple specialized applications) has also been launched. We have incorporated the product technology into the R&D demonstration project of the BOE East China Core Competence Building to surmount technical hurdles related to digital twin, IoT terminal development (BSEOS cloud box), and multi-protocol access, achieving energy consumption monitoring and fine-tuned control of equipment. In particular, over 80% of IoT equipment terminals are allowed for access to the BSEOS cloud box, such as meters, air conditioners, and lighting, for integrated energy services in a smart building, becoming the IoT foundation for efficient interconnectivity in zero-carbon energy consumption settings.

Through the development and trading of environmental rights products, BOE has assisted 53 large multinational corporations and listed companies in attaining green growth, facilitated the execution of energy stewardship projects in national green smart low-carbon demonstration parks, and delivered tailored solutions for areas such as parks, sewage treatment plants, and public institutions.



- Nomination Award of the UNIDO Global Call 2022 (BSEOS Professional Application B-iSolar Operation and Maintenance Management System Project Case)
- Excellent Case Award of China's Digital Transformation (BSEOS Smart Energy Operating System Case)



Facilitating a Healthy Life with Technology

Capitalizing on its core capabilities in display, sensing, AI, and big data, BOE combines technology with medical care across the chain of “prevention, diagnosis and treatment, rehabilitation”, creating a full life-cycle health management system to protect health.

Health management

Through the integrated development of “technology + medical care”, BOE consistently seeks solutions for early screening and prevention of diseases, creating a perfect and powerful health defense line for the public. Regarding disease screening, BOE’s collaborative cancer early detection service has provided early detection and screening for gastrointestinal cancer methylation, lung cancer and cardiovascular and cerebrovascular



BOE digital human body health management solution

diseases to nearly 120,000 people. In routine health management, BOE explores the “Screen of Things” digital human body solution, incorporating health management services into scenarios such as high-end healthcare communities, real estate, and primary health institutions using IoT devices to provide comprehensive solutions that integrate detection, interaction, and extended health management services. In tailored healthcare, BOE has set up a specialized healthcare division and a dedicated healthcare team comprised of general practitioners and health managers. Through pre-examination, during-examination, and post-examination management, the team provides personalized, all-encompassing, and wide-ranging disease intervention, risk control, and healthcare treatment, pioneering the health management model throughout the entire lifecycle.

Case ▶ BOE partners with Peking University Third Hospital on an osteoporosis prevention and control solution

In 2022, BOE, as a participant in key R&D projects of the Ministry of Science and Technology, developed a more targeted and personalized osteoporosis prevention and control solution in cooperation with Peking University Third Hospital. By utilizing hardware such as smart terminal equipment and software such as IoT management platform, the solution helps community hospitals identify potential osteoporosis patients at an early stage within their communities. Consequently, minor and chronic conditions can be treated locally, while patients with serious illnesses are promptly referred to tertiary hospitals. The solution has been adopted in Beijing Hospital, Peking University Third Hospital, West China Hospital of Sichuan University, and Qilu Hospital of Shandong University, benefiting over 1,500 residents.

Precision diagnosis and treatment

Embracing the vision of constantly improving the experience of medical workers and patients, and the mission to raise the level of medical services in China, BOE promotes precision diagnosis and treatment to safeguard the well-being of patients.

Digital hospitals construction: BOE persistently advances the development of both offline digital hospitals and online IoT hospitals, creating a closed-loop integrated online and offline health services that thoroughly empower the whole-process prevention, treatment, and rehabilitation services. In 2022, BOE Health Internet Hospital catered to 20,000 customers and introduced ten specialty products.

Smart terminals and systems: BOE has been devoted to the R&D of continuous sign monitoring technology and has provided a patient-centered clinical information monitoring technology platform for acute and chronic diseases to support the most effective personalized clinical treatment strategies. BOE has also ingeniously constructed an AI-assisted medical imaging diagnosis system platform and developed AI-integrated ultrasound imaging machine products.

Regenerative medicine: BOE’s “Technical Service for Extraction, Preparation and Cryopreservation of Human Cells” was recognized as “Beijing New Technology and New Product (Service),” and its “Human Umbilical Cord Mesenchymal Stem Cell Membrane” became the first biological product of stem cell membrane approved for clinical treatment of coronary heart disease with low ejection fraction in the world. Working alongside the Cancer Hospital of the Chinese Academy of Medical Sciences and other entities, BOE has developed a new generation of CAR-NK immune cell therapy products to provide pain relief solutions for more patients.

Molecular detection: The NAT-3000 automatic nucleic acid amplification analyzer, independently developed and manufactured by BOE, has been granted a Class III Medical Device Registration Certificate from the National Medical Products Administration (NMPA) (National Provisions for Medical Device Registration No. 20223221029). The analyzer can accurately identify various respiratory pathogens, offering a timely and reliable laboratory basis for clinical diagnosis, early patient shunt, and appropriate drug use.

Healthcare services

Integrating “technology and medical treatment” in the final stage of the “prevention-diagnosis-treatment-rehabilitation” chain, BOE delivers more targeted and attentive healthcare services. In 2022, we introduced the BOE Digital and Smart Healthcare Solution, along with a proprietary health examination integrated machine, offering residents a diverse range of community-based and at-home healthcare experiences. Additionally, we established the first smart medical treatment and healthcare community within a CCRC model, creating a service system that encompasses “medical and health care integration, smart empowerment, and vitality sharing”, so that the elderly can enjoy a healthy, dynamic, convenient retirement life across health, living, dining, socializing, entertainment, learning, and care.



Chengdu BOE Smart Medical Treatment and Healthcare Center



BOE health examination integrated machine



Environment: Building a Green World in Action

With a focus on sustainable development, BOE continually leverages its strengths to seek solutions for symbiotic development with the environment. By embedding environmental missions and commitments into such links as management, production, operation, and products, we use technology to protect our green home, contributing to a clean and beautiful world.

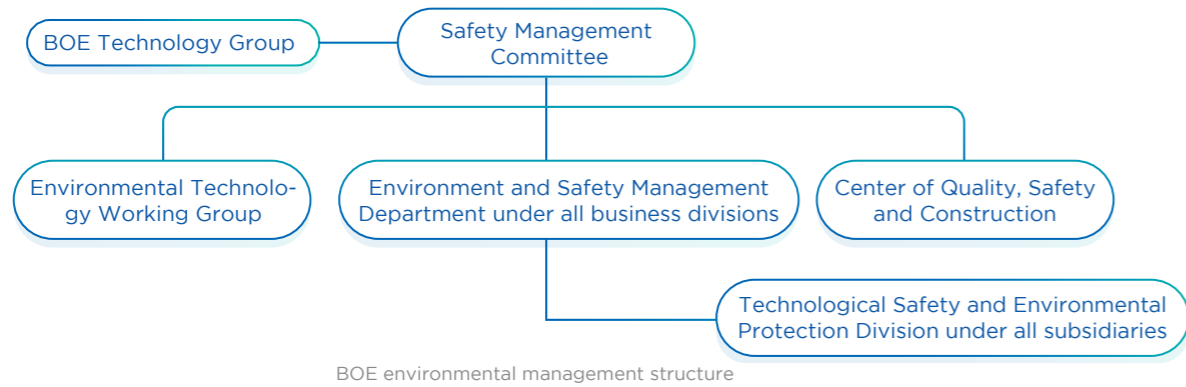


Stricter Environmental Management

BOE has established rigorous environmental management standards and a sound environmental management organizational structure to consistently identify potential environmental risks in production and operations. By bolstering risk response and enhancing the top-level design of planning for carbon peak and carbon neutrality, we lay the groundwork for green and low-carbon production and operation.

Improving the management framework

In strict accordance with the Chinese laws including the *Environmental Protection Law*, the *Atmospheric Pollution Prevention and Control Law*, the *Water Pollution Prevention Law*, the *Law on Prevention and Control of Environmental Pollution by Solid Waste*, and other national laws and regulations, BOE has established an environmental management framework with well-defined responsibilities and an environmental management framework based on ISO 14001. In 2022, BOE persistently encouraged all business units and production lines to develop and improve their environmental management frameworks, and devise relevant systems to establish a solid foundation for sound and well-organized environmental management.



As of the end of 2022

33 plants and business units passed the ISO 14001 Environmental Management System Certification

15 plants were awarded "National Green Factory"

Intensifying risk prevention and control

BOE continues to strengthen the identification, prevention and control of environmental risks. We improve our ability to withstand environmental risks and create an environment for steady development by establishing an environmental emergency response mechanism and carrying out emergency drills for environmental incidents. We analyzed and identified different environmental risks for systematic management. We compiled the Emergency Plan for Environmental Emergencies and put it on record with the local environmental authority. In the meantime, environmental emergency drill plans have been developed. Following the principle of "Three Verifies" and "Three Covers", we regularly complete emergency drills for chemical leakage, excessive discharge of waste and water discharge, among others. In 2022, there was no environmental pollution incident, excessive discharge accident, or government penalty.

Environmental risks identified by BOE in 2022

Pollutant emission	<ul style="list-style-type: none"> The release of the <i>Rules for the Marking of Automatic Pollutant Emission Monitoring Equipment</i> means stricter supervision on pollutant emissions More stringent policy for VOCs emissions and soil pollution in areas where BOE operates
Waste gas treatment	<ul style="list-style-type: none"> Stricter management requirements for air pollutant emissions and increased investment in the transformation of pollution prevention and control facilities
Waste terminal disposal	<ul style="list-style-type: none"> Possible environmental risk brought to storage in plants from failure to transport hazardous waste in time under special circumstances
Energy management	<ul style="list-style-type: none"> Stricter requirements for examining energy management systems in the current market environment
Carbon peak and carbon neutrality management	<ul style="list-style-type: none"> Some room for reducing carbon emissions within BOE and its value chain because carbon emissions are on the rise despite a preliminarily established carbon emission management system

Implementing carbon peak and carbon neutrality goals

BOE continuously promotes the carbon peak and carbon neutrality plan by establishing a carbon emissions management system founded on the "624" Carbon Peak Master Plan, which encompasses 6 approaches and 24 action plans. We advocated for carbon emission inventories across categories 1-5, proposed a management policy of "comprehensive planning, continuous carbon reduction, value extension, and green development," and established the management goal of "attaining the Group's carbon peak and carbon neutrality on schedule." We have facilitated the 6 approaches, 24 action plans, and 28 core projects for carbon emission management.

BOE fosters carbon goal setting through a scientific path and methodology. In 2022, Chongqing BOE Optoelectronics Technology Co., Ltd. officially joined the Science Based Targets Initiative (SBTi) on behalf of BOE, committing to keep the global average temperature increase below 1.5 °C compared to pre-industrial levels. As the first semiconductor display panel manufacturer in Chinese mainland to join the SBTi, BOE conducted an internal carbon inventory following the GHG Protocol standard, established the emission reduction base year and target, and rolled out a roadmap to achieve the target.



Science-based Target Certificate issued by the World Wide Fund for Nature (WWF)

Environmental information disclosure

BOE persistently monitors environmental data, evaluates environmental progress and effectiveness, and releases environmental data to stakeholders through a variety of channels while welcoming oversight from all parties involved.

<p>The BOE Environmental Protection Case column</p> <p>The column on BOE's official website discloses daily/monthly/quarterly environmental monitoring data of BOE's key pollutant discharging subsidiaries in Beijing.</p>	<p>Report to the ecology and environment authorities online</p> <p>Each subsidiary shall report the environmental monitoring data of wastewater and waste gas from online monitoring system by category to the local ecology and environment authorities as required on real time, every one hour, every day, etc.</p>	<p>Register with the ecology and environment authorities</p> <p>Each subsidiary shall register hazardous waste and related management plans with and submit the environmental pollutant monitoring plan to the local ecology and environment authorities as required on an annual basis.</p>	<p>Self-monitoring Information Release Platform of Key BOE Subsidiaries</p> <p>The environmental monitoring data of BOE subsidiaries are disclosed daily on the Self-monitoring Information Release Platform of Key BOE Subsidiaries.</p>
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Channels and methods of environmental information publicity

Green Production and Operation

In active response to the development goal of carbon peak and carbon neutrality, BOE endeavors to protect the environment in production and operation through initiatives such as improving energy efficiency, reducing emissions, and saving resources.

■ Practicing energy saving and emission reduction

By enhancing the management of energy, water resources, and waste, BOE vigorously advocates for energy-saving and emission reduction. We work faster to establish and improve a green, low-carbon, circular economic system to advance comprehensive green transition.

□ Energy management

BOE encourages all production lines and business units to adopt energy management systems and execute energy-saving technology upgrades. Through technological innovation and strict management, we enhance energy efficiency in production and operations, advancing towards energy-saving and eco-friendly development.

Summary of BOE energy-saving and consumption reduction data in 2022

Category	Consumption	Number of energy-saving projects	Energy saved
Electricity	10.64744 TWh	222	214.93 GWh
Natural gas	25.7 million m ³	7	320,000 m ³
Steam	91,470 tons	1	3,400 tons
Gasoline	152 tons		
Diesel	185 tons		



Tap water preheating transformation project for BOE Hefei Gen 10.5 TFT-LCD production line

Case ▶ BOE optimizes energy management through digitalization-intelligence integration

In 2022, BOE Fuzhou Gen 8.5 TFT-LCD production line was certified as a “Lighthouse Factory”, the highest honor in the global smart manufacturing sector. By employing a fully automated production system and extensively adopting AI and advanced analytical technology, the factory reduces the unit cost of the production line by 34%. Based on an AI-driven energy management system, the factory reduces its power consumption by 39% and water consumption by 27%, which greatly enhances its ability for green and sustainable development.



BOE Fuzhou Gen 8.5 TFT-LCD production line

□ Water resource management

BOE utilizes various types of water in production, including pure process water, make-up water, and water for sewage treatment plants. We have adopted a wastewater recovery system that recycles process water, treats, and supplies the water back to production while consistently enhancing our water circulation system. We urge all production lines and business units to bolster water consumption statistics, set water-saving targets, and carry out water-saving transformation projects to further decrease pure water consumption and elevate its efficiency. Moreover, we participated in formulating the Beijing standard *Norm of Water Intake—Part 7: Liquid Crystal Display Devices and Modules* (DB11/T 1764.7-2021), bridging the local gap in this domain.



Sewage treatment system of BOE Chengdu Gen 8.6 TFT-LCD production line

In 2022

45 water-saving projects carried out
13.02 million m³ water saved

Water-saving measures and effects of some BOE production lines in 2022

BOE Chengdu Gen 6 AMOLED (Flexible) production line	Set targets for different production processes to save 1.68 million m ³ of water per year
BOE Fuzhou Gen 8.5 TFT-LCD production line	Launched the color film wastewater recycling project to save 438,000 m ³ of water and reduce tap water consumption by 7.80%
BOE Chongqing Gen 6 AMOLED (Flexible) production line	Recovered production water using the wastewater recovery system, achieving wastewater recycling rate of over 80%
BOE Wuhan Gen 10.5 TFT-LCD production line	Recovered cleaning water of process equipment for recycled use after treatment, achieving a recovery rate of pure water over 70% Recovered concentrated water of pure water preparation reverse osmosis (RO) for waste gas washing tower, cooling tower, equipment point of use (POU), greening, toilet flushing, among others, saving over 3 million m ³ of water annually
BOE Beijing Gen 8.5 TFT-LCD production line	Carried out various wastewater recovery rate improvement projects, such as recovering RO concentrated water from high-concentration organic wastewater to increase the quantity of recovered water, achieving overall recovery water rate of over 80%

Case ▶ BOE saves water by multiple measures

The BOE Chongqing Gen 8.5 TFT-LCD production line adopted water-saving measures across production links to save water while improving economic benefits. By recovering and purifying RO concentrated water and post-production quality cleaning water, fresh water usage is reduced by 23,735 m³/day, facilitating water recovery and reuse. Increasing drainage pipes to channel color film wastewater into the recovery system saves 704 m³ of water daily. Installing new equipment to eliminate suspended solids in pure water multi-media filters and activated carbon backwash water and channeling backwash water to the reclaimed water reuse pool can reduce tap water replenishment, saving 440 m³ of water per day.

Case ▶ BOE strives for a leading company in water efficiency

BOE Ordos Gen 5.5 LTPS-LCD/AMOLED production line utilizes surface water from the Yellow River as the production water source. To save water resources, the company has been transitioning from extensive water utilization to economical and intensive mode. Through an ultra-pure water system, a recycled water system and a wastewater treatment system, 91% of wastewater generated during production is recovered and reproduced as ultra-pure water. This increases the water production rate to 472% and reduces water consumption per square meter by 69%. In 2022, the company applied for a water reduction index of 2.5608 million m³ to attain the water return index for the Yellow River Basin.

Waste management

We have formulated and released the *Display Business Waste Management System* to follow the 4R principle (recycle, reduce, renew and responsibly) when processing raw materials. We aim for comprehensive utilization and prioritize raw materials recycle in production when handling chemical waste. If recycling is not feasible, we work with a liquid waste recycling firm to convert the waste into industrial-grade raw materials for market reentry. Incineration is chosen only when the waste is entirely useless or when the purification cost far exceeds the potential value. Moreover, we ensure that 100% of hazardous waste is recycled through a qualified third-party professional organization, while maintaining oversight and management on the organization.

In 2022

96.48% Comprehensive utilization rate of general waste

96.79% Comprehensive utilization rate of hazardous waste



Waste organic solvent recycling system of BOE Ordos Gen 5.5 LTPS-LCD/AMOLED production line

Waste management measures and effects of some BOE production lines in 2022

BOE Beijing Gen 5 TFT-LCD production line	Added condensing units after equipment review, leading to a 5% less YoY generation of waste stripping liquid
BOE Hefei Gen 6 TFT-LCD production line	Carried out a waste acid self-utilization project, reducing the risk of transporting and disposing of around 600 tons of hazardous waste annually
BOE Chongqing Gen 8.5 TFT-LCD production line	Promoted the zero landfill of waste disposal, reduced the amount of waste landfill year by year, and obtained UL 2799 (Environmental Claim Validation Procedure for Zero Waste to Landfill, Gold Level)
BOE Hefei Gen 10.5 TFT-LCD production line	Initiated a copper-containing sludge recycling project, serving as a model for other production lines managing copper-containing sludge disposal
BOE Wuhan Gen 10.5 TFT-LCD production line	Achieved 100% utilization of waste ITO (indium tin oxide) etching solution as an agent for wastewater treatment Attained 100% recycling utilization of general solid waste, primarily used as raw materials in the building materials, cement, and other industries
BOE Chongqing Gen 6 AMOLED (Flexible) production line	Employed counter-current cleaning of glass substrates to enhance the reuse rate of ultra-pure water and chemicals, reducing isopropanol consumption by 30% Reduced the use of etching solution by 30% and the discharge of waste liquid by 36% Improved the application and cleaning methods of photoresist, reducing the amount of photoresist by 60%, waste liquid by 90%, and diluent by 90%

Case ▶ BOE Chongqing Gen 8.5 TFT-LCD production line passed UL 3600 and UL 2799 certifications

In 2022, BOE Chongqing Gen 8.5 TFT-LCD production line passed UL 3600 (Certification Measures Circular Economy Efforts) and UL 2799 (Environmental Claim Validation Procedure for Zero Waste to Landfill, Gold Level). On raw material selection, rubber frame and backplate prepared from recycled materials are selected for production, with circularity of the 15.6-inch product reaching 51%. On waste emission reduction, by optimizing copper-containing wastewater treatment, copper-containing sludge is reduced by 510 tons/year and through the in-plant waste acid reuse project, hazardous waste is reduced by 1,230 tons/year. On waste disposal, the audit of waste manufacturers is carried out to ensure compliant waste disposal. With a company circularity of 74%, BOE became the first to pass UL 3600 and obtain its certificate in Chinese mainland.



UL 3600 (Certification Measures Circular Economy Efforts)

UL 2799 (Environmental Claim Validation Procedure for Zero Waste to Landfill, Gold Level)

□ Chemicals management

We adopt the full life cycle management and control of green products, actively participate in the formulation of national codes and testing standards for green products, and seek for safer alternatives to hazardous substances. We have put in place the *Safety Management System for Hazardous Chemicals*. Also, we have set up the BOE Green Product Analysis Center to improve the ability of testing hazardous substances, ensuring that products meet management and control standards for hazardous substances. We strictly abide by the provisions in the *Measures for the Restriction of the Use of the Hazardous Substances of the Electrical and Electronic Products*, which requires that produces shall take measures to reduce and eliminate the content of lead, mercury, cadmium, hexavalent chromium, polymeric brominated biphenyls (PBB), poly brominated diphenyl ethers (PBDE) and other toxic or hazardous substances contained in electronic products. By doing so, all the raw materials used by BOE can meet the requirements of relevant national environmental laws and regulations and the chemical registration, evaluation, licensing and restriction system.

In 2022



Chemical management measures and effects of some BOE production lines and business units in 2022

BOE Beijing Gen 5 TFT-LCD production line	Carried out fine management of stripping liquid, saving 130,000 liters annually
Suzhou BOE Hospital	Formulated the <i>Management System for Hazardous Chemicals in Hospitals</i>
BOE Hefei Gen 8.5 TFT-LCD production line	Installed two-way drug supply pipelines to ensure switching and maintenance at any time, pipeline pressure relief protection equipment for timely pressure relief when the pipeline pressure reaches the threshold to avoid pipe burst, and fluid monitoring and alarm equipment in pressure relief pipelines to detect pressure relief in time
BOE Hefei Gen 10.5 TFT-LCD production line	Prepared the <i>Safety Management System for Hazardous Chemicals</i> and the <i>Management System for Major Hazard Sources</i> , developed 1 special emergency disposal plan and 10 on-site disposal plans, and carried out 27 chemical-related emergency drills in 2022
BOE Ordos Gen 5.5 LTPS-LCD/AMOLED production line	Set up centralized supply points for Class A flammable liquids such as isopropanol and anhydrous ethanol used for preventive maintenance (PM) on the production line, and arranged special personnel for collection, sub-packaging and use management, achieving zero storage of Class A liquids used for PM and significantly reducing the number of hazards related to chemicals

□ Air pollution prevention and control

BOE strictly abides by relevant laws and regulations of the state and the government, and actively explores new approaches to air pollution prevention and control. We improve the efficiency of our waste gas treatment system to reduce the emissions of toxic and harmful gases such as SO₂, NO_x and VOCs, thus effectively preventing these gases from damaging the environment.



Investigation and monitoring of odor and VOCs in BOE Mianyang Gen 6 AMOLED (Flexible) production line

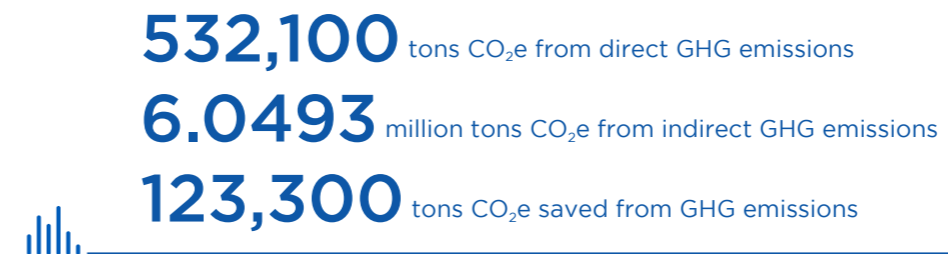
Case ▶ BOE improves the efficiency of waste gas treatment to reduce the emission of waste gas pollutants

To reduce the emission of waste gas pollutants by raising waste gas treatment efficiency, BOE Mianyang Gen 6 AMOLED (Flexible) production line persistently refines its treatment system, including cleaning the packing of the acid-base waste gas washing tower to improve the treatment efficiency of such facilities, raising the organic waste gas incinerator's furnace temperature to 760°C to enhance the efficiency of waste gas incineration, and employing high-temperature desorption on organic adsorption zeolite runners to reduce waste gas pollutant emissions.

□ GHG emissions

With a keen focus on addressing climate change, BOE actively engages in relevant actions. By 2022, 45 BOE plants and business units have passed the ISO 14064-1 GHG validation and verification, with 39 receiving ISO 14064-1 certificates as per customer requirements. Concurrently, we promote clean energy utilization, establish photovoltaic installations on plant rooftops, and incorporate solar water heaters within residential areas to minimize GHG emissions generated through energy consumption.

In 2022



Case ▶ BOE increases the use of renewable energy and reduces GHG emissions

BOE Chongqing Gen 8.5 TFT-LCD production line has constructed a distributed rooftop photovoltaic power station, with a total installed capacity of around 18 MW, generating an estimated 12.84 GWh of power annually and cutting CO₂ emissions by around 6,750 tons, equivalent to 1,578 tons of standard coal. Suzhou BOE Hospital employs 761 solar hot water panels to capture solar energy during daylight hours and heat ethylene glycol in the pipeline before exchanging heat via hot water storage tanks. The heated tap water then supplements domestic hot water usage. As a supplementary system to the domestic hot water boiler, this setup decreases annual boiler gas consumption by 160,000 m³.

Case ▶ BOE optimizes production process to reduce NF₃ emission

Although nitrogen trifluoride (NF₃) is a key process gas in the semiconductor display sector, it is a fluorine-laden GHG possessing an alarmingly high GWP (Global Warming Potential) of 17,423. To curtail NF₃ emissions, BOE performed an extensive technical review and feasibility study, devising emission abatement approaches that include refining cleaning procedures, optimizing film formation processes, updating equipment, and employing precise management. These efforts have been adopted across production lines, reducing carbon emissions of close to 10,000 tons.

■ Creating green products

Throughout the entire product life cycle, BOE thoroughly accounts for resource and environmental impacts, embedding the green concept into product design, development, packaging, and transportation stages. By implementing measures such as evaluating the environmental impact of products through carbon footprint accounting, BOE produces green, low-carbon, and eco-friendly products.

□ Green product design

BOE incorporates ECO evaluation and product lifecycle management system into product design and development stages, ensuring that design, quality, functionality, and production process adhere to green product standards. We advocate for recycling, universal, and minimal design of products. We adjust the product structure and develop high value-added, low-emission, low energy-consuming, low-frequency, and eco-friendly products, in a bid to decrease energy and resource consumption, lessen ecological impacts, and maximize recycling potential.

Case ▶ BOE integrates the green concept into product development and raw material use

BOE Hefei Gen 10.5 TFT-LCD production line has integrated recoverable, recyclable, degradable technologies in product development, such as seeking alternative low-temperature solders in light bars and printed circuit board modules. Moreover, low-carbon technologies are employed in product development, such as high transmittance designs and materials for TVs. By utilizing innovative pixel designs and high transmittance liquid crystal and color group materials, product transmittance is boosted by 30%, resulting in enhanced energy efficiency. Non-toxic or minimally toxic materials are selected to comply with relevant environmental laws and chemical registration, evaluation, licensing and restriction systems. Green materials, including zero VOC materials, are increasingly being incorporated into products.

□ Product carbon footprint accounting

BOE fully considers the environmental and resource implications throughout the entire product life cycle. Through carbon footprint accounting, we analyze energy consumption across the life cycle, providing a targeted reference for carbon emission reduction and a foundation for curbing GHG emissions combined with the supply chain. In 2022, we completed carbon footprint certifications for products such as the 23.8-inch and 14-inch notebooks.

Case ▶ BOE promotes carbon footprint accounting of 14-inch notebooks

In 2022, BOE executed cradle-to-gate carbon footprint accounting for 14-inch notebooks. Following the ISO 14067 standard, we calculated carbon emissions throughout the process, from procurement and transportation of raw and auxiliary materials to product manufacturing and packaging. Subsequent to passing third-party verification, BOE has secured the carbon footprint certification for this product.

Case ▶ BOE's series VUSION electronic labels receives the first carbon footprint assessment report in the global retail field

In 2022, BOE's series VUSION electronic labels received the first carbon footprint assessment report for electronic labels in the global retail industry. The assessment covered the entire lifecycle from raw materials and manufacturing to distribution and retail to use, disuse and recycling, laying the technical groundwork for the setting of carbon disclosure and carbon footprint standards and the development and improvement of carbon emissions management systems.



□ Green packaging and transportation

To mitigate the environmental repercussions of logistics during product packaging and transportation, BOE persistently refines its transportation management system. This involves rationally laying out and planning for transport stations and routes to enhance delivery efficiency and reduce GHG emissions. BOE has transitioned from air to cross-border road transportation for goods exported from Chongqing to Europe, thus curbing carbon emissions. Additionally, materials imported from the Hong Kong Special Administrative Region (HKSAR) utilize land transport instead of air, with multiple batches consolidated into single vehicle shipments to further decrease emissions. Committed to green packaging, on the premise of ensuring transport safety, BOE optimizes packaging design, minimizes package dimensions, and increases container loading capacities, ultimately lowering indirect carbon emissions in packaging and transportation links.

Green Philosophy

With a steadfast dedication to sustainable development, BOE consistently advances environmental protection initiatives across all links of daily operations to raise the environmental awareness of all staff, thereby contributing to a better environment.

Environmental training

BOE provides online and offline environmental management trainings for different positions, both internally and externally. We provide new employees with at least 8 hours of on-job training on environmental protection each year. For key positions of environmental risk prevention and control, we have established management ledgers and carried out regular training and assessment on the basics of water pollution, air pollution control, waste disposal, and environmental management. By doing so, we ensure that they master expertise in environmental risk response, including the treatment and discharge of wastewater and waste gas pollutants, collection, storage and transfer of hazardous waste, storage and logistics of chemicals, and storage and operation of special gas. We timely track the latest environmental protection related laws and regulations. In 2022, we provided special training for staff related to water treatment technology and air conditioning technology in accordance with the *Rules for the Marking of Automatic Pollutant Emission Monitoring Equipment* issued by the Ministry of Ecology and Environment.

In 2022, environmental management training was provided to



Environmental factor identification and evaluation training of BOE Mianyang Gen 6 AMOLED (Flexible) production line



Managers' energy management training of BOE Chengdu Gen 4.5 TFT-LCD production line



Onboarding environmental training of BOE Hefei Gen 10.5 TFT-LCD production line

Green action

In 2022, by innovating its management model around the development philosophy of carbon peak and carbon neutrality, BOE implemented measures related to green parks, green workplace, green travel, and green lifestyle. An administrative service points system is adopted to carry out "Green Action". BOE encouraged all employees to transition towards sustainable development, aiming to create a low-carbon, green, and eco-friendly workplace and living environment. The system has been available for employees to accumulate green points through green actions after online application, supporting the Group in achieving carbon peak and carbon neutrality goals.

As of the end of 2022



Green action points system publicity activity

Green publicity

BOE is dedicated to championing a green consensus among stakeholders within and outside the organization. Internally, BOE inspires employees to partake in environmental efforts in an appealing manner, such as publicizing and popularizing the knowledge of carbon peak and carbon neutrality, organizing environmental protection salons, and holding thematic photography showcases.



Carbon Monthly activity



Environmental Protection and Energy Conservation poster



Ecological collaboration salon

Care for the Society on the Journey to Development

At BOE, we actively embrace and fulfill our corporate social responsibility. Through high-quality management and services, we provide reliable premium experience for clients. With a keen focus on employees, we facilitate their growth and development, earning best employer awards from a number of authoritative organizations. Our enthusiastic participation in voluntary public welfare fosters harmonious communities, driving sustainable progress and shaping a better world.

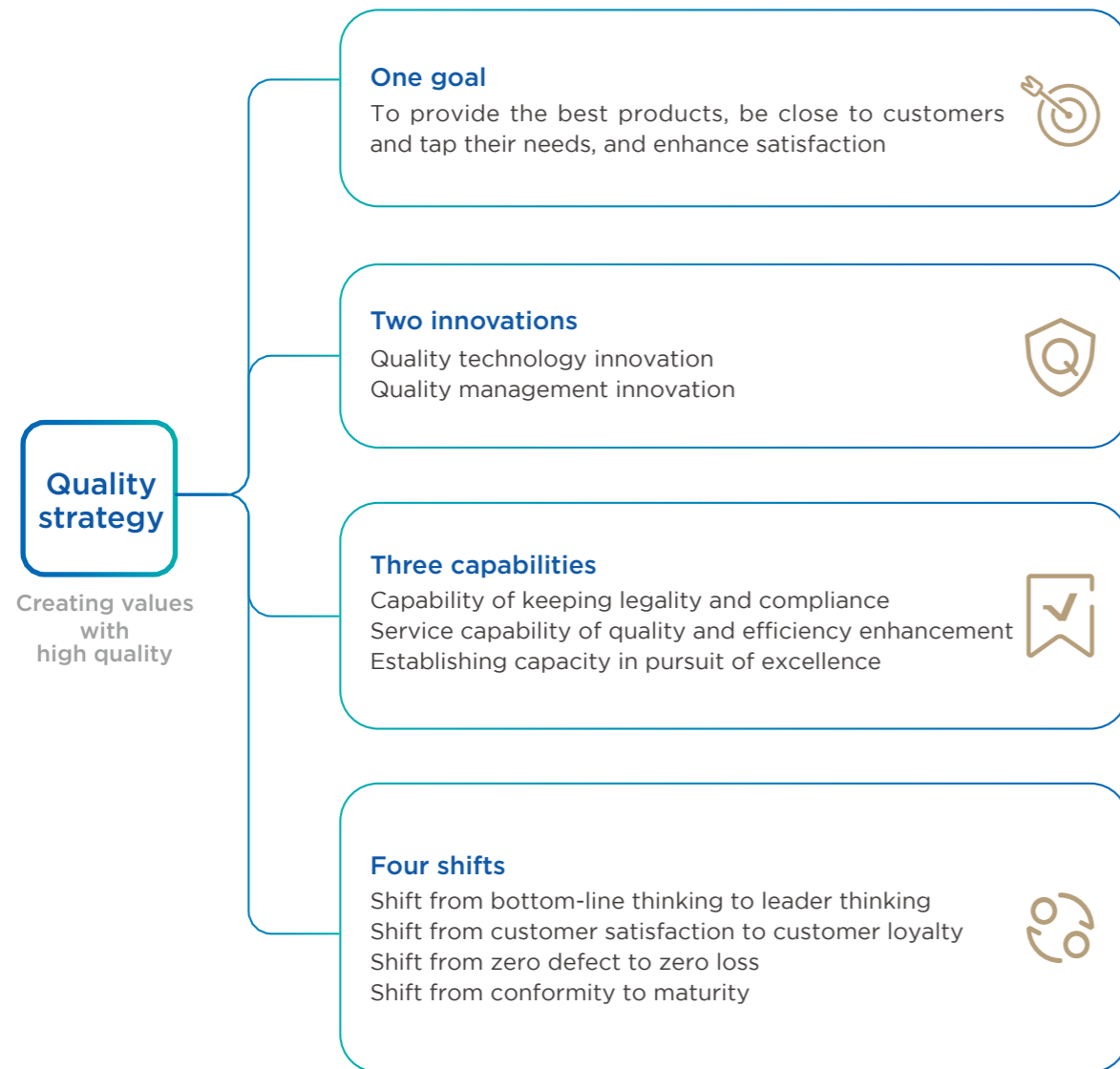


Better Customer Services

BOE steadfastly upholds that “Quality is the core of running an enterprise”. Our entire workforce is acutely aware that “Quality is the foundation of being respect and the lifeline of an enterprise”. We actively nurture a quality culture steeped in “integrity and genuineness”. Through continuous innovation, we present our users with captivating products, services, and experiences, maximizing stakeholder value and advancing BOE’s aspiring “to be the most respected company on earth”.

Pursuing excellent quality

BOE clearly proposes the quality vision of “creating a benchmark for global excellence in terms of quality management.” By developing the quality strategy of “creating values with high quality,” we guide the acceleration of two innovations, enhancement of three capabilities, and realization of four shifts around one goal.



Quality strategy of “creating values with high quality”

Capability of keeping legality and compliance

To ensure quality and safety, BOE strictly implements an accountability system and has established an assurance system based on laws, regulations and mandatory standards for products and services to prevent accidents. Moreover, we monitor quality of products in the life cycle through multiple channels including the “BOE daily news monitoring report”, “400 hotline follow-up”, “pre-launch product quality data verification”, and “post-launch product quality spot checks” to deal with and solve the problems in time.

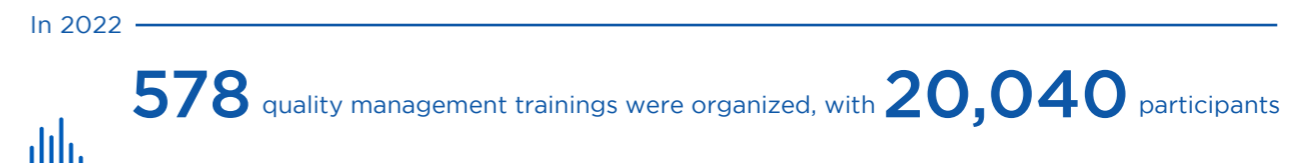
In 2022, BOE passed the pre-launch product quality data verification and performed post-launch quality spot checks for 631 products to control the potential risks of product quality and ensure that products meet the laws, regulations and implementation standards.



Service capability of quality and efficiency enhancement

By embedding quality management into services, BOE maximizes the value of quality management. We provide customers with high-quality, satisfactory and trustworthy products and services, and facilitate the transformation and upgrading of our IoT strategy.

- BOE places “thinking quality” at the core of quality management. Through activities including BOE family, BOE quality month and “Quality Cup” contest, we publicize the core value concept of “team, speed, quality” and create the quality culture of “integrity and genuineness.”
- By adopting a whole-process embedded quality management process, BOE fully upgrades the management system through process re-engineering. With focus on customer needs, we leverage the driving force of quality and examine the organizational process to ensure that quality management is embedded in the whole process from customer demands to customer satisfaction.
- In order to deliver highly reliable products, BOE establishes a modern quality management system encompassing organization, system, resources, infrastructure, and industrial chain. We are also equipped with a systematic quality assurance system in the whole life cycle to truly integrate quality into management with practical implementation.



Case ▶ BOE raises quality awareness by multiple measures

In 2022, BOE boosted high-quality corporate development through a series of campaigns themed by “Promoting Quality Innovation Change for High-quality Business Growth”, including “Publicizing Quality Management Concept in Quality Innovation Activities”, “Promoting Leading Corporate Standards Through Star and Knockout Products”, “Implementing Quality Improvement Actions with Focus on Customer Quality Performance”, “Stimulating All Employees to Take the Initiative to Identify Problems and Promote Improvement”. On this basis, industrial lines further devised several featured activities such as “In-door Discussion on Quality Problems”, “Skills Contest”, and “Building a Strong Team”, so as to foster and raise the quality awareness of the entire workforce in a more diversified way.

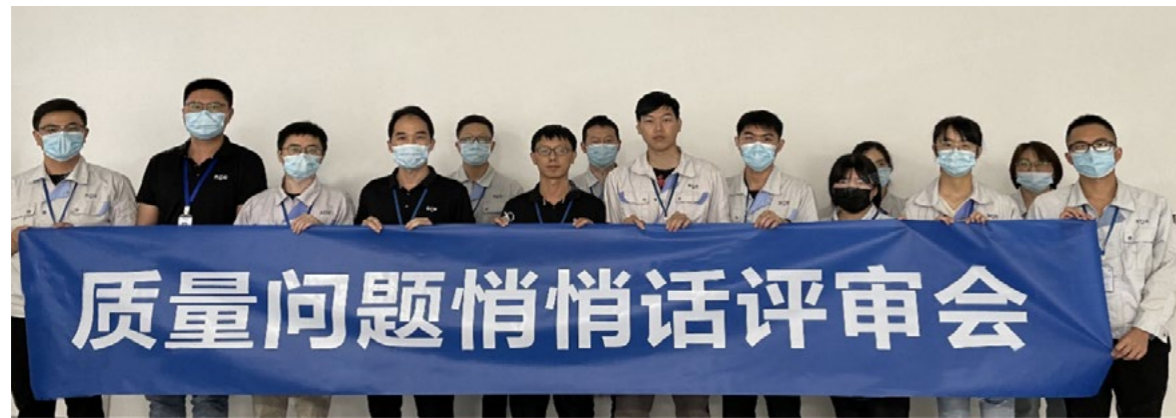
Performance: (2022)

Over **40** quality knowledge quiz activities were carried out with more than **60,000** participants

53 star and knockout products were reviewed

20,047 improvement proposals were collected

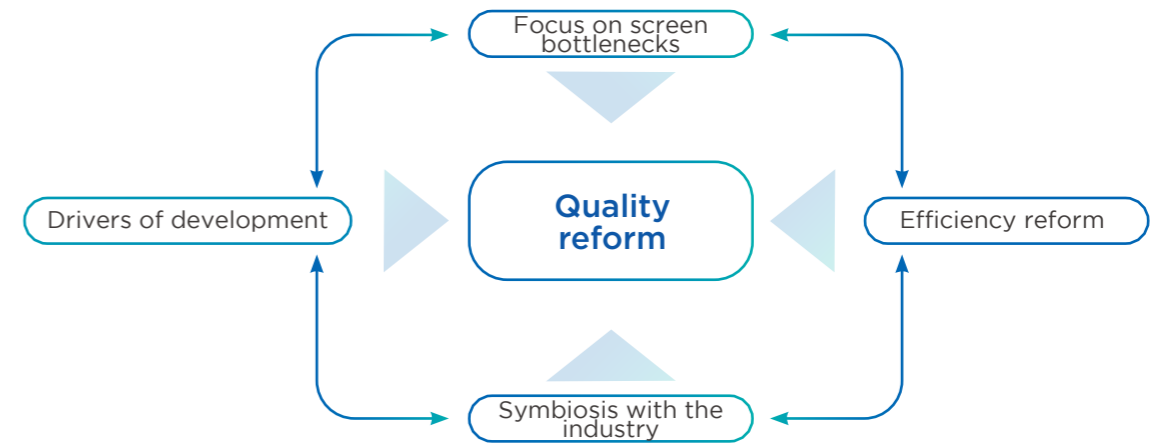
81 study, sharing and exchange sessions were organized



BOE Review Meeting of “In-door Discussion on Quality Problems”

□ Establishing capacity in pursuit of excellence

To realize the aspiring vision of “Best On Earth” and evolve from an outstanding to excellent company, BOE has established a quality management model of innovation-led high-quality development. This model involves upgrading the quality, efficiency and drivers of development, focusing on screen bottlenecks, promoting industrial symbiosis, and empowering upstream and downstream links, so as to advance high-quality development of the industry. This model represents the best practice of “consolidating the foundation, bolstering weaknesses, focusing on innovation, and cultivating talents” around weak links and common issues. It is a positive response to implementing the national top-level requirement for changes in driving force, efficiency, and quality in the pursuit of high-quality development.



Quality management model of innovation-led high-quality development

To further improve the management models of excellent performance and innovation-led high-quality development, BOE draws lessons from the practices of the world’s three major quality awards and the China Quality Award. Leveraging BOE Quality Award, we identify the best management practices for sharing and learning to comprehensively enhance quality management maturity.

In 2022

The 6th BOE Quality Award review wrapped up, identifying **31** best management practice cases and forming the *Collection of Best Management Practice Cases*



In 2022, BOE published its first quality monograph *Quality Screen Development Driven by Two Pillar Forces*, which condenses BOE’s 30-year history and introduces its quality management model of innovation-led high-quality development. The book delves into a range of practices that utilize strategy as the driving force, innovation as the foundation, and quality as the lifeblood in the pursuit of high-quality development.

As a winner of the China Quality Award, BOE actively assumes its social responsibility and commitment to publicize and promote quality management experience. We share quality management experience in special exchange activities held with NAURA Technology Group Co., Ltd., Chengdu Aircraft Industrial (Group) Co. Ltd., Top Victory Electronics (Fujian) Co., Ltd., Anhui Conch Cement Co., Ltd., and Beijing Information Science and Technology University.



BOE's
Collection of Best Management Practice Cases
in 2022

BOE's
first quality monograph
Quality Screen Development Driven by Two Pillar Forces

■ Providing sincere customer services

BOE upholds the service policy of “Staying customer-oriented to pursue excellence”. We keep innovating in service methods, improve the customer service system, and expand communication channels, in an effort to foster good customer relationships. Also, we prioritize the protection of customers’ rights and interests, and safeguard their information security as strict as their health security.

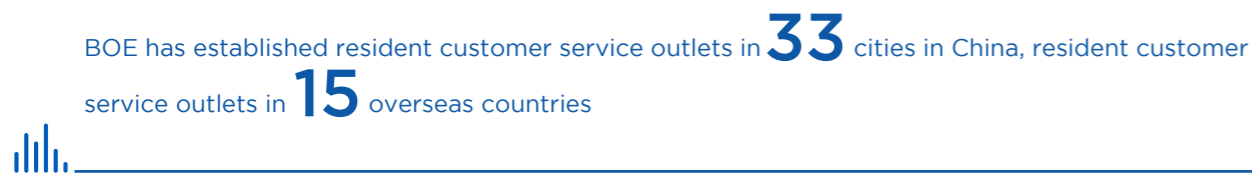
In 2022, BOE's display business



□ Enhancing service guarantee

Based on the general principle of customer services of “first knowing, fast response, immediate handling, and quick resolving”, BOE has established a customer service outlet covering all regions and a 2485 timely response mechanism. Capitalizing on sales outlets and third-party resources, we have set up customer service outlets close to customer plants, extending our reach to adjacent areas and achieving full coverage at home and abroad. Resident engineers and technical support personnel are also designated to ensure timely staffing in case of any problem and provide convenient services to local customers.

As of 2022



24H — Working out interception measures against defective products within 24 hours after receiving negative feedback from any customer

48H — Completing preliminary cause analysis and a counter-measure report within 48 hours

5D — Identifying the root cause and proposing the ultimate solution within 5 days

2485 timeliness response mechanism

Positive services
Store inspection & follow-up call

- VIP service**
Professional service teams and customized services
- Store inspection**
Routine inspection of software and hardware use and recording of problems to be dealt with
- Usage train**
On-site training and correction for improper use or operation of products
- Satisfaction survey**
Regular collection of customer problems and requirements for customer satisfaction survey

Passive services
Technical support & problem handling

- Telephone support**
400 professional teams for preliminary troubleshooting
- Remote support**
Remote system debugging and problem handling
- Door-to-door handling**
Door-to-door product repair and other services within 48 hours
- Product warranty**
Product repair and replacement within the scope of warranty

BOE innovative service methods

Professional system platform

Quick repair appointment by WeChat, email and telephone
 Professional query system providing service visualization and professional data list
 Work order process early-warning and whole-process visualization

Professional technical support team for customers
 Timely remote and on-site support for problems and difficulties within 48 hours

Technical support system

Intelligent scheduling

Response to customer repair appointment within 2 hours on average
 Optimal door-to-door engineer service according to the equipment location
 Service process supervision, early-warning, timely treatment, and operation process follow-up

Complete technical data and documents for engineers to learn and master new skills
 Online questionnaire and offline practical technical assessment

Skills training system

Spare parts management

Spare parts storage warehouses across China
 Standardized spare parts management platform

BOE after-sales service guarantee system

□ **Enhancing customer satisfaction**

BOE upholds customer-oriented philosophy. We proactively identify customer needs in advance and review improvement projects with customers for joint improvements to achieve win-win development. Also, through WeChat, email, telephone, on-site visits, customer quality meetings (weekly/monthly/quarterly/annual), and customer satisfaction surveys (semi-annual), we understand customer expectations and demands to make targeted improvements promptly. We regularly carry out customer service training to enhance the service awareness and ability of our employees, in a bid to provide customers with the best service experience.

To enhance customer satisfaction and effectively address diverse consumer problems, we optimize systems such as the *Customer Service Procedure*, the *Complaint Handling Procedure*, the *Customer Satisfaction Management Procedure*, and the *Product Return and Replacement Management Procedure*. We also streamline problem handling, recording and return visits to effectively resolve and monitor customer inquiries.

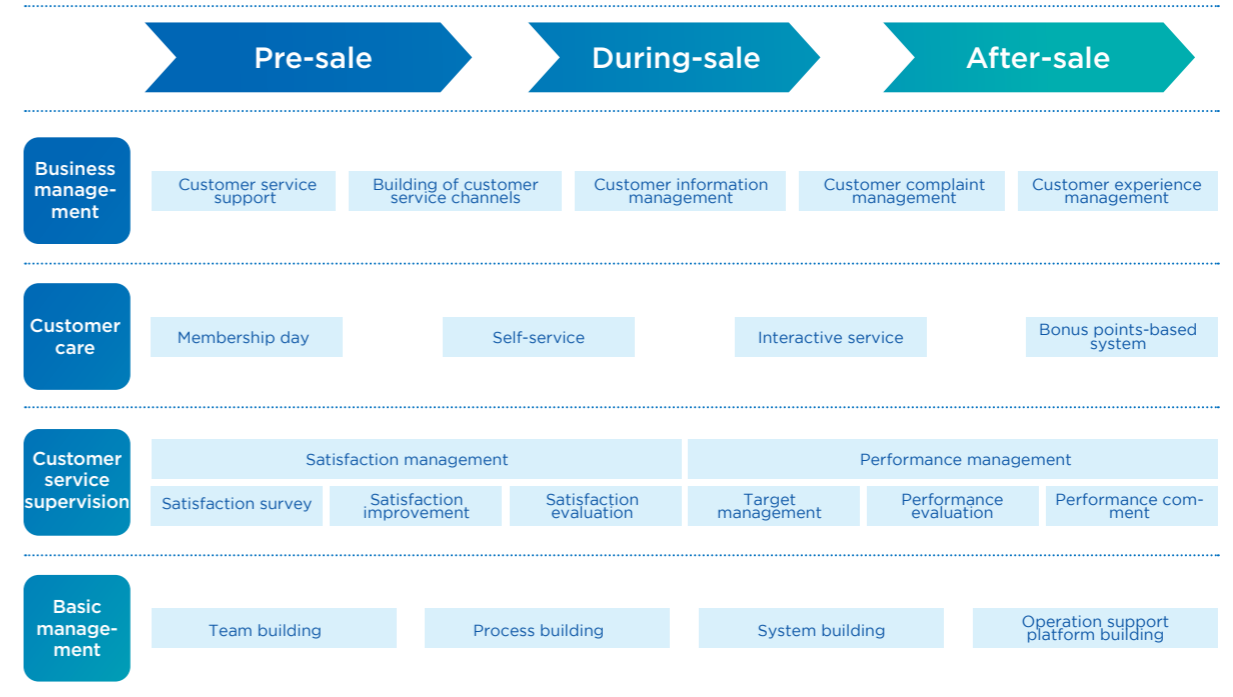
BOE handles customer inquiries, complaints and technical service requests through the customer relationship management (CRM) system, and connects with cooperative service providers via this system. The service order is automatically transferred to the service provider system after it is generated in the CRM system by our customer service staff. Then the personnel of the service provider send the order to the service engineer through the system. The service engineer provides timely feedback on the on-site service situation through the handheld terminal system, and feeds back to the BOE CRM system through the system docking port. The progress of the entire service process is fed back in real time through the docking system of both parties to realize the systematic monitoring and management of the whole process.

Case ▶ BOE elevates customer satisfaction with excellent quality

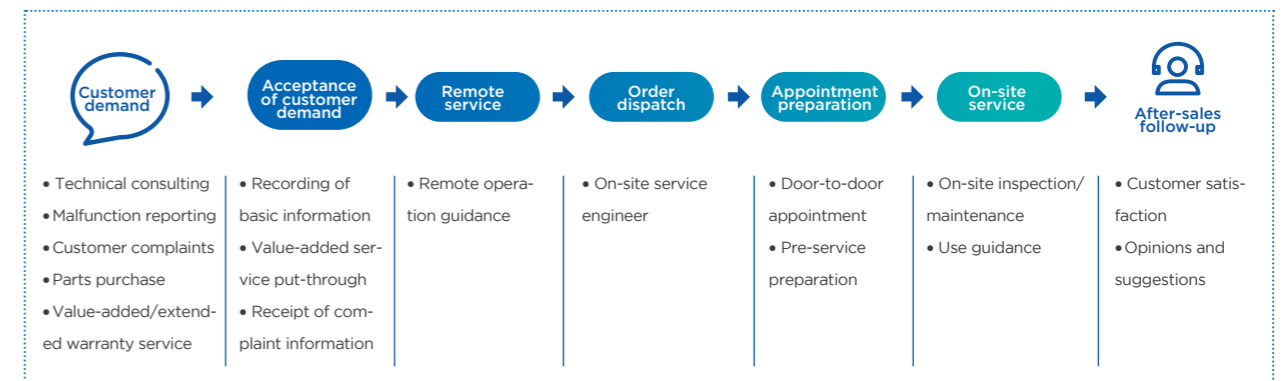
Prioritizing quality as the key to customer satisfaction, BOE elevates customer satisfaction and product service standards by consistently refining product quality. BOE initiated a quality improvement campaign with a client in 2022. Through quality exchange and publicity, joint management of secondary suppliers, establishment of a risk early warning system for large inventory materials, collaborative program before quality testing, and an array of activities such as module optimization and prevention, and quality management improvement of raw materials and new products, both parties consistently incorporated each other's quality concepts to boost product quality. Our persistent endeavors have led to an increase in our quality performance score from 91.20 in 2019 to 99.70 in 2022 after the client's evaluation. Moreover, we earned the annual Excellent Quality Award from the client for four years running with exceptional quality performance.

□ **Innovative health technology services**

Since BOE stepped in health industry, health technology has become important for the Company. BOE has established a complete customer service system and management systems including the *Consumer Satisfaction Survey Process* and the *Customer Complaints Handling Process* in order to standardize service procedures. We also strictly abide by mechanisms on customers' information management and confidentiality.



Health technology business customer service system



BOE customer service process

□ **Customer Rights Protection**

BOE abides by policies, relevant laws and regulations. We integrate the maintenance of customers' legal rights and interests into corporate governance, culture and business development. We maintain customer health and safety via strict product quality inspections and clearly identify the source of ingredients and the name of the supplier in the product and service information. In line with identification, requirements of RoHS regulations in China and the SJ/T 11363-2016 standard, products are indicated "whether they contain hazardous substances".

At the same time, we adhere to the highest standard of business ethics and continuously build the institutional system of "hierarchical, graded and coordinated overall policy, management methods and management rules of information security". By improving the dynamic in-depth technical defense system, we have enhanced data security. In addition, we fundamentally ensure the privacy and security of customers with a sound information security management protection mechanism and strict employee professional ethics.

Employee Well-being Increase

At BOE, we regard our employees as the most treasured resource and wealth. By putting our employees at the forefront of corporate development, we steadfastly pursue the strategy of "Promoting High-quality Corporate Development with Talent". We propel talent development with innovation, executing an innovation-driven strategy, and refining our employee composition to cultivate, recruit, and leverage talent in all areas. Also, embracing a people-centric philosophy, we diligently safeguard the lawful rights and interests of our employees. By stimulating their vitality and creativity, we help employees gain self-worth and encourage them to grow together with BOE.

Safeguard the rights and interests of employees

Equal Employment

BOE recruits talents according to the principles of equality, openness and inclusiveness. We strictly abide by the *Labor Law*, the *Labor Contract Law*, the *Social Insurance Law*, the *Provisions on the Prohibition of Using Child Labor*, the *Law on the Protection of Minors*, and other employment-related laws, regulations and international conventions where our business operates. We enforce them in collective contracts, labor contracts and all kinds of HR management rules and regulations. We also follow the Code of Conduct - Responsible Business Alliance (RBA).

BOE pursues an equal and open employment policy. We prohibit differentiated treatment in employee recruitment, promotion, development, welfare distribution, and termination of labor contracts due to race, color, nationality, language, wealth, social status, age, gender, sexual orientation, ethnicity, disability, pregnancy, belief, political affiliation, participation in any association, or marital status. We strictly abide by the labor laws and regulations where our business operates and constantly improve our employment management. To avoid child labor and other non-compliant employment scenarios, we thoroughly respect employee willingness throughout the hiring process, ensuring voluntary participation in work, freedom from forced labor and restricted liberties (for work and resignation), and prohibiting any form of corporal punishment, intimidation, harassment, abuse, or discrimination against our employees.

In 2022

88,343 employees in total

26,365 new employees

23% Female managers in total managers

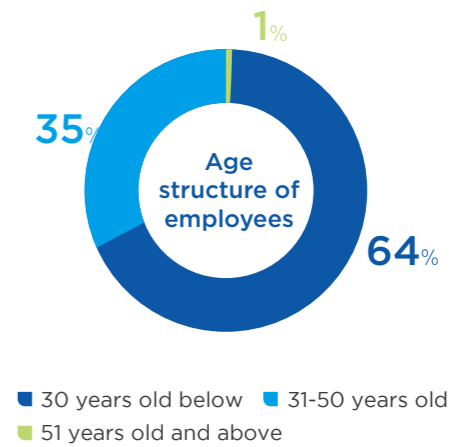
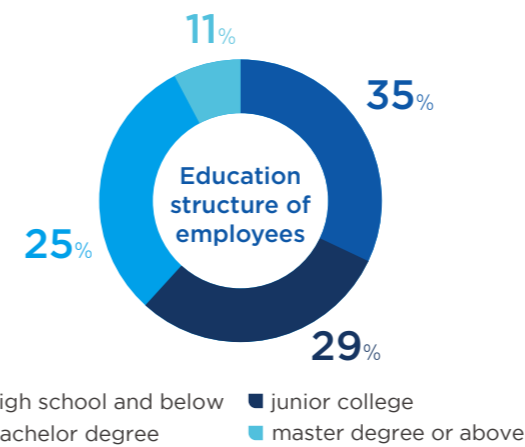
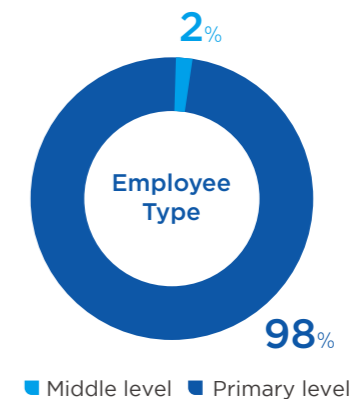
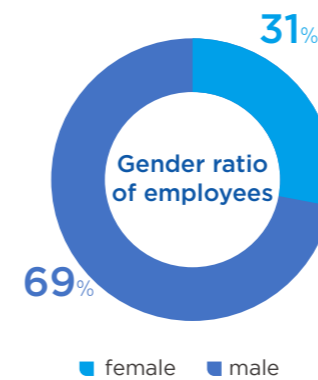
100% Social insurance coverage rate

71% Executives hired from local communities

100% Labor contract signing rate



Recruitment of international students



□ Democratic communication

BOE has established an equal and democratic communication mechanism to understand employee demands in a timely manner and developed a labor union procedure system. We provide employees with open and effective communication and complaint methods including suggestion boxes, chairman mailboxes and online platform to facilitate the expression of employees. In 2022, we issued an employee satisfaction survey, according to which 91% of employees were satisfied with BOE and willing to continue their devotion and contribution, significantly higher than the average of domestic high-tech industry. Based on the survey results, we organized focus group interviews as well as formulated and implemented improvement plans, in order to form a closed management loop and further improve employee satisfaction.

Case ▸ BOE holds the first meeting of the third Workers' Congress to improve democratic management

In 2022, BOE held its first meeting of the third Workers' Congress. At the meeting, we deliberated resolutions regarding the selection national model workers, Beijing model workers and capital labor medals, and the nomination of the Group's tenth session of employee supervisors. By fully increasing communication with employees, the meeting bolstered democratic management, safeguarded employees' right to know, participate, express and supervise at all levels, and thus established a foundation for boosting sustainable corporate development.



First Meeting of the Third BOE Workers' Congress

□ Compensation and Benefits

In line with the principle of "pay for posts, abilities, and performance", we keep delving into incentive mechanisms for skilled talents, such as incentives for piecework, quality and efficiency enhancement, production increase and proposal improvement. We provide competitive salaries in the industry together with allowances, annual performance bonuses, mid-year performance incentives, timely incentives, equity incentives, etc.

We pay social insurance and housing provident fund for employees according to law. Also, we offer the enterprise annuity plan for all employees based on the principles of voluntariness and maximum capacity. We also provide commercial insurance such as personal accident insurance, critical illness insurance, medical insurance, and business travel insurance. By doing so, we establish a multi-level guarantee system for employees, enhance their cohesion and creativity, and promote healthy and sustainable corporate development. At the same time, we provide free breakfast and lunch, collective dormitory, free shuttle bus, free parking, birthday allowance, wedding congratulations, annual leave, annual physical checks, and other benefits to enhance their sense of gaining at BOE.

■ Safeguarding employee safety

In strict accordance with relevant national laws and regulations, BOE protects the rights and interests, occupational health, and safety of employees. We fully recognize their labor contributions, allowing employees to become the builder, master and interest sharer of BOE.

In 2022

5,984 safety trainings involving **1,045,123** participants

1,461 emergency drills involving **85,369** participants

5,046 safety publicity activities

10,336 safety checks

100% Hidden hazard rectification

100% Occupational physical examination coverage

0 occupational disease incidence

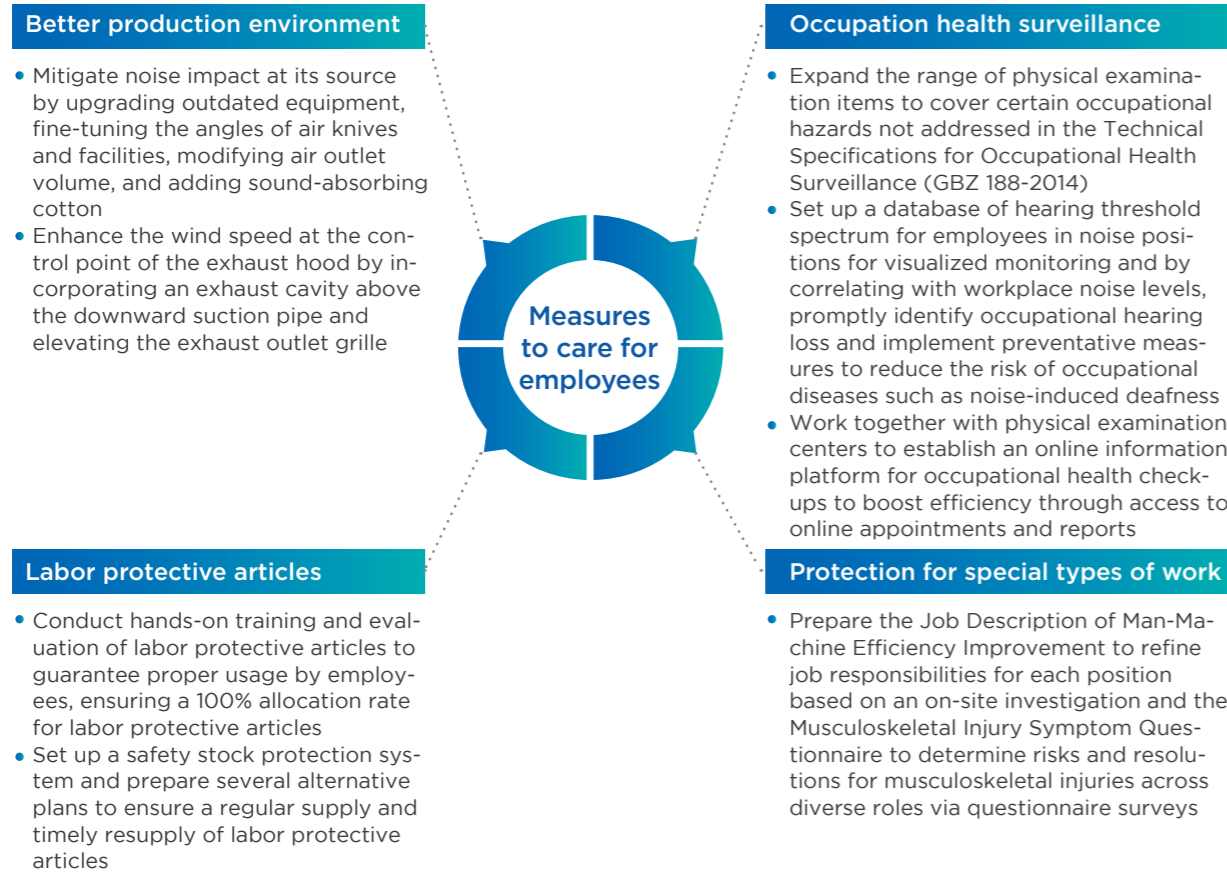
0 major work safety accident



Emergency drills

□ Ensuring occupational safety

In accordance with the *Work Safety Law of the People's Republic of China*, BOE has established a dual prevention mechanism consisting of graded management and control of safety risks and examination and control of potential risks. Combined with the ISO 45001 occupational safety & health management system, we consistently manage safety and occupational health to create a safe and healthy workplace for employees. We also provide employees with annual physical examination, major disease support and other health services.



□ **Caring for mental health of employees**

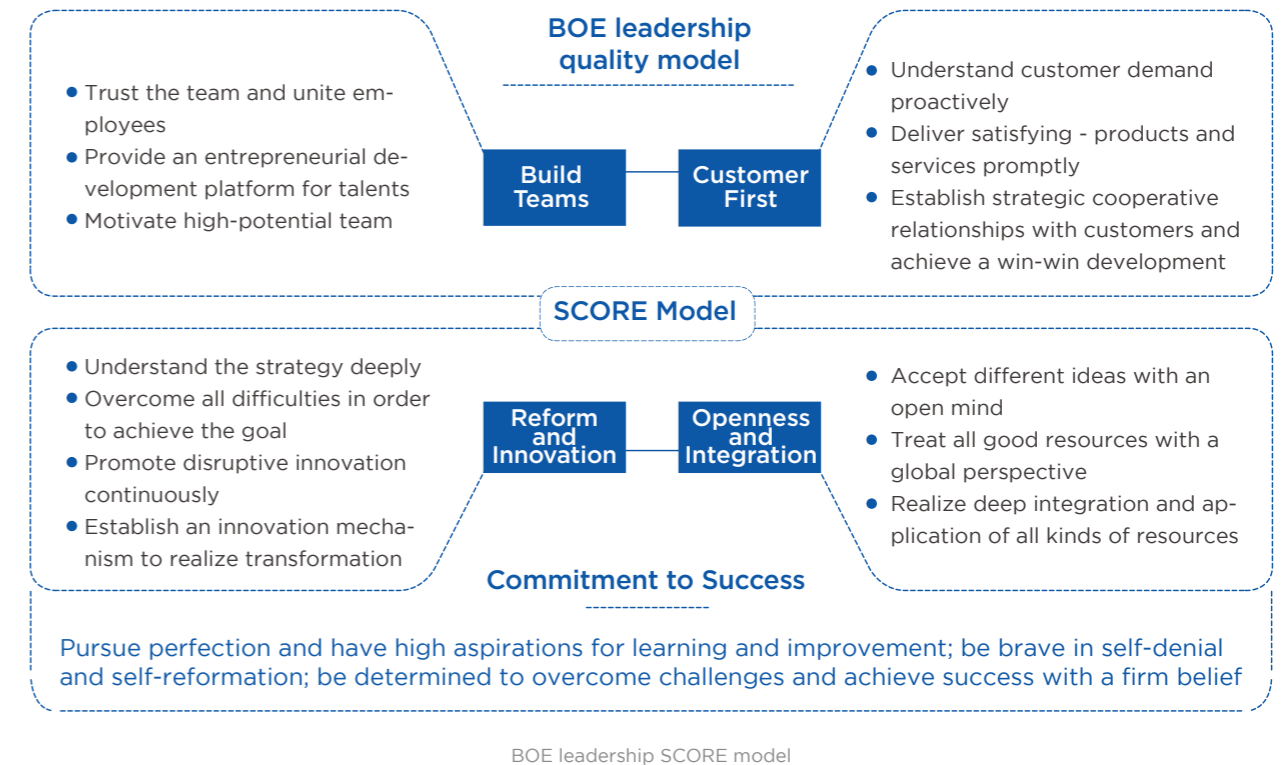
BOE provides Employee Assistance Program (EAP) services for all employees and their immediate families. The services, including 7×24 hours appointment consultation hotline, telephone & on-site & online consultation, instant talk on smart mental platform, mental health assessment, WeChat public account, EAP column on the staff portal, psychological training, online mini-class, and emergency intervention, help employees effectively ease psychological pressure from work and life and enjoy a better balance. In 2022, EAP served 1,011 employees, helping them tackle problems in emotional management, family relationship, workplace communication, and interpersonal exchange. We have also set up Heart Oxygen Bars in 14 cities including Beijing, Hefei, Chongqing and Nanjing for one-to-one and face-to-face psychological consulting services.

■ **Supporting personal development**

To facilitate the growth and capability improvement of talents, we have established a scientific and sound training system for employees based on rich online and offline learning content. We also broaden the growth space of employees in the Company and continuously optimize their promotion channels.

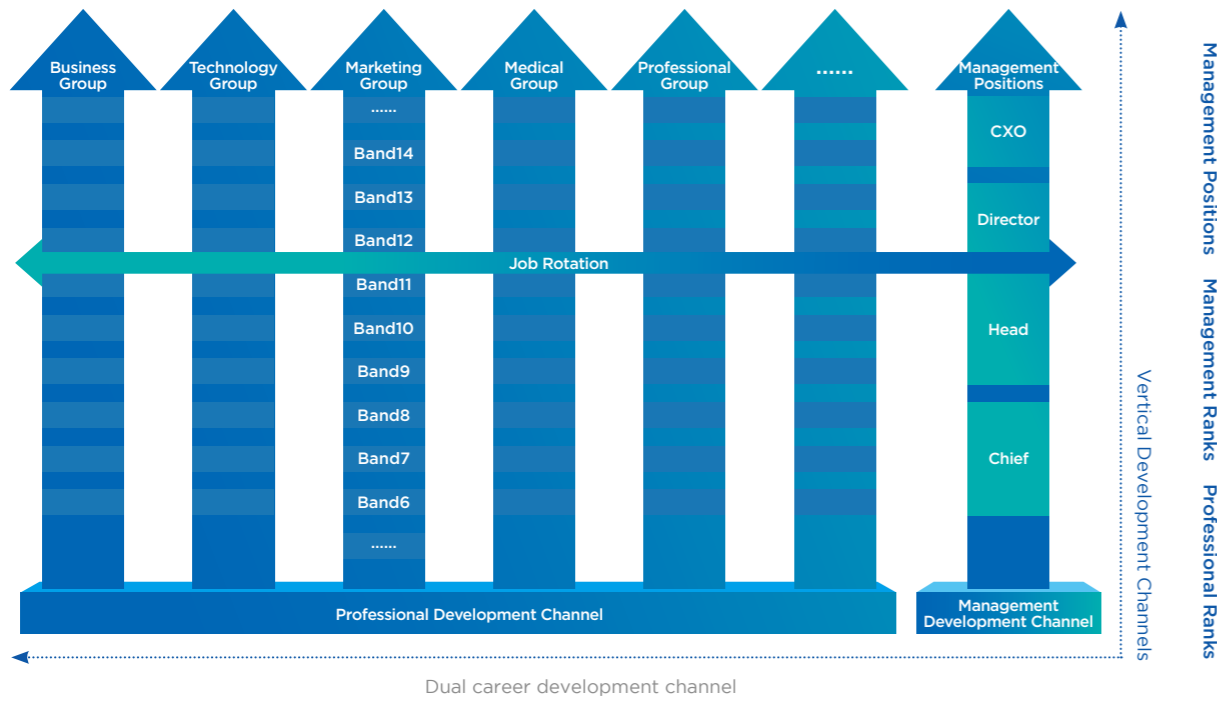
□ **Scientific talent management**

The Organization & Human Development Plan (OHDP) is regularly launched to analyze and optimize the organizational structure and talent status to create a leadership SCORE model. Based on performance, ability, and potential assessments of existing talents, we have formulated an annual talent cultivation and development plan and improve it in the process of implementation to accelerate talent growth.



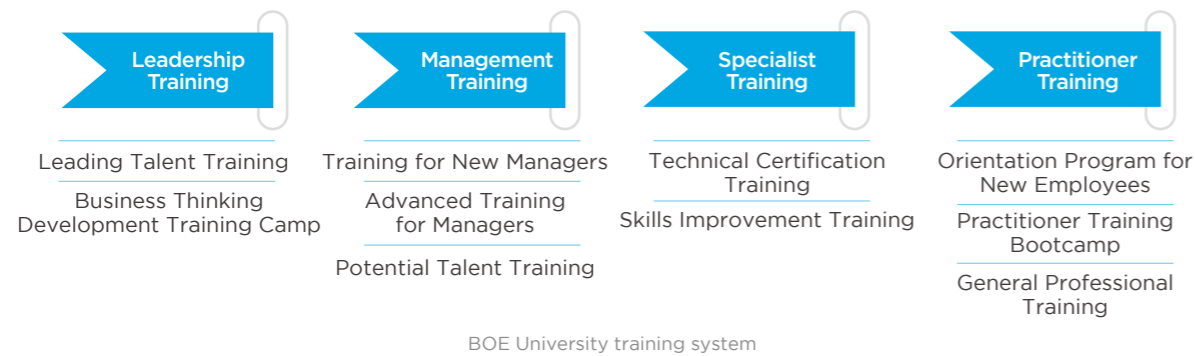
□ **Smooth career channels**

BOE provides diversified development paths for employees. While driving up employee capabilities, we intensify responsibility and value contributions. In order to help employees speed up the improvement in their profession and management skills, we have established a two-way talent development mechanism of “management + profession”. We also implement a job rotation mechanism, providing employees with diverse career opportunities to stimulate their inherent potential, and exert their enthusiasm, initiative and creativity.



Employee training

In order to help employees speed up the improvement in the depth and breadth of their profession and management skills, BOE persistently refines the training management system and mechanism. By improving the education and training system, and increasing efforts in training guarantee and allocation of training resources, we create a vertical and horizontal development platform for employees, forming a complete training system for practitioners, professionals, managers, and leaders. The diversified employee training program allows our employees to improve both their skills and professional value, realizing dreams through ongoing growth.



In 2022



Case ▶ BOE teams up with Tsinghua University on leading talent training

In 2022, BOE collaborated with the Executive Education Center at Tsinghua School of Economics and Management on a training program for BOE leading talent, structured into Cognitive Upgrading, Action Practice and Thought Convergence. Through three online + offline lectures, along with online group discussions, accompanying instructions, and counseling, trainees gained a broader global vision and a deeper understanding of management theories. Following thorough discussions and exchanges on challenges and opportunities amidst BOE's strategic realignment, 35 trainees successfully accomplished all the learning tasks.



Group Photo of BOE Leading Talent Training Camp

Case ▶ BOE innovates the digital talent training and learning mode

To boost organizational learning efficiency and fast-track digital talent empowerment, based on insights and acclamation in personnel training and development, BOE established a brand-new e-learning platform with relevant organizations. Grounded on the concept of "anytime, anywhere, anybody," the platform actively delves into and applies e-learning amid ongoing improvements through agile response and rapid iteration. It provides more convenient and effective support in areas such as online operations, content recommendations, learning incentives, and learning socialization. Upon its launch, the platform registered a total of 406,520 log-ins.



E-Learning Platform of BOE University

■ Caring for employees

BOE cares about the work and life of every employee, aiming to back up them as a close friend. We keep strengthening care for employees and encouraging them to work happily to enhance their sense of happiness, gaining and satisfaction.

□ Caring for female employees and employees in difficulty

BOE has signed and strictly implemented the *Special Agreement on the Protection of Female Employees' Rights and Interests*. We pay attention to the needs of female employees in their work and life, provide exclusive physical examination packages for them of different ages, and put maternity leave, parental leave (including breastfeeding leave) and allowance policies into place. Besides, we have set up nursing rooms and organize activities including parenting education and training, HPV health lecture, EAP women's value management in workplace, and EAP music dancing decompression, bringing warmth and care for female employees. In 2021, we handled 3,616 special illness insurances for female workers. In addition, we have various forms of sympathy visits and provide assistance for employees in difficulty by such means as financial support.



Special floral training for female employees



139 March 8 Red Banner Pacesetters and 72 female civilization demonstration posts were commended at the March 8 Commendation

■ Enriching cultural and sports activities of employees

As we foster an IoT innovation-based culture system, we constantly upgrade cultural and sports activities, creating a stage for employees to unwind and express themselves. This not only develops their hobbies and interests, but also boosts their satisfaction and sense of belonging at BOE. In 2022, we rolled out the O Family program, inviting employees and their families to activities such as online Open Day and offline Visit Day. By bridging among employees, their families and BOE, the program has created a warm and comfortable home culture at BOE. We also organized an online parent meeting for new employees from on-campus recruitment and their parents, attracting 367 applicants and cover more than 10,000 people.



Archery Competition



Baseball Challenge



"Double Top 10" Commendation and the "Top 10 News" Selection



BOE Employee Award & "Screen of Things" Model Award Commendation

Community Development

Keeping in mind of our social responsibilities, we continue to support the development of social welfare, pass on the positive energy, and actively engage in charity courses, benefiting the public with our development achievements. We have provided more than 2,600 positions to society and helped more than 26,000 people land their jobs. We encourage the education, cultural heritage, voluntary public welfare, and rural vitalization activities through concrete actions. Together with social communities, we fulfill our commitment to sustainable development of the society.

■ Educational development support

Focusing on educational course, BOE promotes the comprehensive development of education in less developed areas for rural vitalization during the key progress of implementing the strategy of revitalizing the rural places with education, aiming to bridge the education gap between urban and rural areas. Moreover, we cooperate with universities to cultivate more innovative talents for the industry and society, creating more possibilities for their future growth.

□ Bridging the education gap

As a global leading IoT innovation company, BOE is fully aware of the importance of education. To pave the way to quality education for the next generation and promote the educational resource sharing, we carry out a variety of public education projects, such as “Illuminating the Growth Path” and “Lighting Plan” welfare projects, to expand the education influence scope, improve local education and promote educational equity.

The “Illuminating the Growth Path” welfare project: We have donated 73 Digital Classrooms in different regions, covering 6 remote areas in 6 provinces/cities in China and benefiting more than 24,000 students and 1,000 teachers in remote areas. It further promotes the digital upgrade of education in these isolated places. In addition, we also helped local teachers improve their basic teaching and digital teaching abilities through comprehensive training to advance digital education. This makes high-quality digital education resources more accessible to children in remote areas.



BOE Digital Classroom

Case ▶ Ye Haitao's new blackboard

Ye Haitao, who yearned to be a teacher when he was a child, was admitted to Huaiying Normal University in 1993 with the highest Gaokao scores in Xuyi County, Huai'an, Jiangsu Province. Just when his dream was about to come true, however, he suffered from paraplegia due to ankylosing spondylitis (AS). Therefore, he had to drop out of school, with his teacher dream coming to an end. Refusing to resign himself to his fate, he found that the village elders could barely provide any guidance when the left-behind children encountered difficulties in their homework. In 1999, Ye decided to teach left-behind children with a hand-held blackboard in his bed. 23 years on, he has tutored more than 500 left-behind children. Unfortunately, he is now plagued by the arm and shoulder pain after years of holding up the blackboard.



Ye Haitao tutors students in the bed.



Customized smart blackboard for Mr. Ye

Once hearing Ye's story, BOE decided to customize a smart blackboard for him. We offered a small smart screen for Ye's instruction and a large touch screen for students' learning. The two screens are interconnected through multi-touch and real-time data transmission technologies. This action cuts both ways: for Ye, it can relieve his arm pain and eye fatigue; for students, it can make them stay more concentrated by spicing up the learning process.

Case ▶ BOE “Lighting Plan” welfare project

On May 10, 2022, the OLED R&D organization launched the “Lighting Plan” welfare project, an educational public welfare project. By assisting schools through volunteer services, donations, and upgrading of teaching aids, the project not only provides physical help for the children, but also broadens their horizon through cutting-edge technology, bring them closer to their dreams.



BOE “Lighting Plan” welfare project

■ Cultivating innovative talents

BOE develops extensive cooperation with universities to create synergy for nurturing talents. Through vocational guidance, campus competitions, curriculum development and other projects, we help graduates with the transformation of their roles and growth of professional thinking. We provide support for cultivating interdisciplinary, technical and innovative talents to boost the growth of both enterprises and the society.

Project name	Form	Coverage	Achievements
The 6th BOE Intelligent Manufacturing Competition	Establish an integrated platform of Internet cloud services, smart devices and mobile terminals in the form of competition that combines theory and practice	Vocational schools and universities	Nearly 155,000 participants from more than 1,200 schools, with over 5.8 million clicks cumulatively
Golden Phoenix Returning to the Nest	Invite outstanding employees to return to their alma mater and share their experiences with students and faculty through speeches and theme salons	Colleges and universities	5,600 student participants from 65 colleges and universities, with 64,000 views cumulatively
Industry College	Carry out customized talent training courses based on four modules of post, course, competition, and certificate	Vocational schools	Cooperation with 7 colleges and universities to develop corresponding talent training programs
OpenDay	Invite university leaders, teachers, and students to visit BOE and share technology	Nearly 40 colleges and universities	Over 1,500 participants from nearly 40 colleges and universities
BOE Campus Club	Recruit students for BOE clubs through events in colleges and universities and new media operations	24 colleges and universities	Over 10,000 participants in more than 60 activities, with the relevant article on official WeChat account garnering over 150,000 views, influencing more than 100,000 people
BOE Campus Ambassador	Conduct online and offline activities such as talent scouting, channel development, brand promotion	More than 80 colleges and universities from more than 10 countries and regions worldwide	Around 160,000 students influenced
BOE Campus Technology Salon	Help students keep abreast of cutting-edge technology development through online and offline technology salon	More than 150 colleges, universities, and research institutes	Nearly 1,000 participants in 5 campus technology salons in which 7 technology experts were invited, with the relevant article on official WeChat account garnering over 10,000 clicks and forwards

■ Healthcare support

□ Medical public welfare

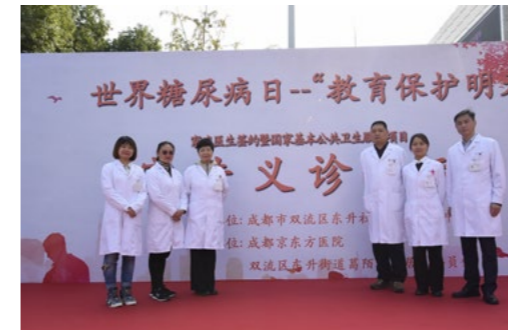
We carry out various medical public welfare activities in communities to popularize health knowledge and help the citizens build a healthy outlook on life. We also donate to poverty-stricken areas to enhance local medical condition by promoting medical technology development, which can improve the general public's access to healthcare as well as their health. In 2022, Hefei BOE Hospital donated RMB 1 million to support residents who suffer from kidney dialysis and cataract or have the history of heart diseases (congenital heart disease or heart valve disease). Besides, BOE hospitals carried out over 450 free diagnoses, which benefited more than 43,000 residents, playing a positive role in the development of public health.



OASIS International Hospital's medical coverage for "Energy & Charity Run"



Suzhou BOE Hospital's medical service projects with hundreds of experts



Chengdu BOE Hospital's "World Diabetes Day - Education for Tomorrow" large-scale free diagnosis activity



Hefei BOE Hospital's health tour with medical experts from Shanghai and Anhui

Case ▶ BOE supports the Rural Angel Project to improve rural medical services

To support the Rural Angel Project initiated by the China Foundation for Rural Development in Taihu County, Anhui Province, BOE, in 2022, provided "angel kits for itinerant medical services" for 200 grass-roots doctors from 15 township health centers, 1 community health service center, 10 neighborhood committee health stations, and 174 administrative village health stations in Taihu County. The provision of hardware and equipment for routine itinerant medical services, especially for the elderly and infants in rural areas, improved the basic medical capacity of rural doctors. For rural doctors, the project helped them improve their medical services for local residents and supported them with sustainable social resources.

Some of BOE's non-profit health care activities

Entity	Name	Description
OASIS International Hospital	Free diagnosis	We provided free diagnosis service and health guidance for sanitation workers on World Sanitation Workers Day
	Medical coverage for public charity events	We provided medical support for the "Energy & Charity Run" held by the US-China Energy Cooperation Program and were awarded as the "Caring Team". All the registration fees received from the event in 2022 were donated to the Red Cross Society of Qingshui County, Gansu Province, to support the education project of Panlong Primary School
	Online live of the experts from Grade-A tertiary hospitals	We invited famous experts from Grade-A tertiary hospitals for live broadcast to help people out with any queries, covering 100,000 people online
	OASIS public welfare lecture on weekends	We carried out 132 OASIS online and offline public welfare lectures on popular science knowledge, covering 330,000 participants
Hefei BOE Hospital	Health tour	We carried out a health tour with over a hundred medical experts from Shanghai and Anhui to build an integration pattern of health services in the Yangtze River Delta
	Free diagnosis and health lectures	We conducted 300 educational activities, such as free diagnosis and knowledge publicity, in communities, health centers, factories, medical association units, etc., covering more than 20,000 participants
Chengdu BOE Hospital	Veteran Services	We signed a veteran services agreement with the Chengdu Veterans Affairs Bureau, providing outpatient service for more than 6,000 veterans, inpatient service for over 800 veterans, and medical checkups for over 1,000 veterans
	Health tour to Tibet	We carried out health services in Dege County, Ganzi Tibetan Autonomous Prefecture, providing free cataract surgeries for 23 local residents and free cleft lip and palate repair surgeries for three children after the screening
	"Xiaobai Station"	We established the first "Xiaobai Station" in the southern part of Chengdu which is the third in the city with Xinlang Charity, providing all-round medical and social services for leukemia patients and families within and outside Sichuan province
	"World Diabetes Day - Education for Tomorrow" large-scale free diagnosis activity	We carried out medical consultation, free blood pressure and blood glucose testing, and popular science lectures on common diseases with the Dongsheng Community Health Service Center in Shuangliu District, Chengdu
Suzhou BOE Hospital	Veteran Services	We provided free home-based diagnosis, medical treatment, nursing care, rehabilitation, and other health services for veterans
	Blood donation	We carried out a blood donation with the blood station in Wujiang District, Suzhou, with medical staff donating more than 15,000ml of blood
	Medical coverage	We provided medical coverage for a series of events, such as the Suzhou Bay Fluorescent Night Run of Wujiang District Orienteering Championship at East Lake Tai, and the award ceremony of the 9th Talent Competition in Wujiang District
	Medical service projects with hundreds of experts	We carried out 46 medical service projects in 5 categories for local communities, enterprises, schools, police camps, and families

Visual health

In 2022, based on the achievements of the Visual Health Intelligence Institute, BOE started to build the Visual Health Science Museum in Suzhou Bay Digital Art Museum. In the museum, children and youth can explore the mystery of eyes, learn eye health knowledge, and experience the charm of visual art through science education, art appreciation, interactive experience, and public welfare activities. In the meantime, the museum also established an expert advisory committee consisting of nationally renowned ophthalmologists to ensure the scientific and accurate popular science. It aims to become a national landmark for eye health knowledge and a second classroom and education base for eye health.



Visual Health Science Museum

Case ▶ BOE carries out the "Love Your Eye" action to protect the vision health of kids

In 2022, BOE, together with Hoson Foundation, carried out the "Love Your Eye" action in Tongjiang County, Sichuan Province to protect the vision health of kids. We donated 100 iGallery E2s for this project's vision testing terminal equipment, which has a built-in intelligent vision screening system jointly developed by BOE and Beijing Tongren Hospital. Local teachers and volunteers, under the remote guidance of experts, carried out vision screening of more than 15,000 students from 8 schools and established an archive with accuracy and efficiency within 2 days. Compared with traditional vision testing, the iGallery E2, which is equipped with the intelligent vision screening system, can significantly improve the testing efficiency and reduce the labor costs and material resources required for testing.

■ Cultural inheritance support

As a high-tech innovator, BOE leverages technology to develop smart cultural exhibitions solutions and creates the forms of cultural exhibitions, contributing to cultural inheritance. We actively apply intriguing scientific digital display solutions to museum exhibitions, allowing visitors to enjoy the collections more clearly and learn more about cultural relics in interactions, so that traditional collections can be appreciated by the public and cultural inheritance can be facilitated. In addition, we promote the transformation of sci-tech achievements, including 8K+5G solution, the world-leading computer vision algorithm technology, and image hyper-segmentation technology. Moreover, we support the public welfare project "Culture Volunteer Service Action of Chinese Ancient Books Census" to propel the census process and boost cultural inheritance.

In 2022

we carried out public welfare project Culture Volunteer Service Action of Chinese Ancient Books Census. We propelled the census process of **10** grassroots units, censoring **25,200** Chinese ancient books, **15,000** handwritten notes, **5,000** rubbings, **11,281** entries of ancient books data, **900** additional printed matters (vertical writings), and **5,000** pages of digital scanning of Chinese ancient books



Census in Xishuangbanna, Yunnan Province



Case ▶ BOE supports "Silk Road Artists Rendezvous" art exhibition to inherit the Silk Road spirit

On August 15, 2022, BOE, as the organizer and technical supporter of the "Silk Road Artists Rendezvous" art exhibition, utilized the new digital display technology and the digital multimedia technology, such as BOE iGallery, BOE 105-inch Display, digital signage, and E-ink display, to display the artifacts. Through the new digital exhibition method of "art+technology", the exhibition presented the excellent art works of 112 artists from the Belt and Road countries and inherited the spirit of the Silk Road, bringing a unique visual experience to the audience.



"Silk Road Artists Rendezvous" art exhibition

■ Rural vitalization service

To support rural vitalization, BOE fully capitalizes on its business characteristics and has developed the "four support" model of "specific supply support, purchase in lieu of support, long-term support, and joint support". We provide farmers with targeted support by controlling production based on their demand and adopt farm-to-table concept in our Company to promote local economy. Besides, we continue to innovate the development model and have built three agricultural bases for organic rice, organic mutton, and black pigs to build special agricultural products with core competitiveness. Relying on the private domain e-commerce platform, we have built a special zone for rural vitalization and helped sell over 200 kinds of agricultural products through various channels such as live broadcasts to promote the standardization, branding and commercialization of agricultural product production. In 2022, BOE donated 13.08 million yuan to assist over 330 farmers, laying foundation for the replicable and characteristic rural vitalization.

Case ▶ BOE supports the fifth Arab Art Festival, including an exhibition featuring works by renowned Arab artists

In December 2022, the fifth Arabic Arts Festival kicked off in Jingdezhen, Jiangxi Province. The festival includes a series of cultural exchange activities organized by the Ministry of Culture and Tourism, such as an exhibition featuring works by renowned Arab artists. The exhibition brought together 80 paintings, 20 sculptures and 20 ceramics created by Arab artists, as well as 30 ceramics by Chinese artists. Some of the works were displayed through intelligent interactive display terminals such as BOE iGallery and BOE 105-inch Display. Such digital technology has created a more realistic and vivid visual experience for audience.



Goods procurement for rural vitalization



"Helping farmers, delivering care" project

Public charity

We always promote the development of local community. By partnering with multiple parties in community public welfare activities and development, we strengthen volunteer management and carry out volunteer activities to deliver public charity to the society and improve people's livelihood.

Case BOE launches its public welfare activity management system to innovate digital management of public welfare

To better manage data of public welfare activities, BOE launched its public welfare activity management system in August 2022. While enabling employees to better leverage their strength in the contribution of SDGs and other goals, the system also improves the digital capability of BOE's public welfare management. After its launch, we have carried out a series of online and offline activities to boost employees' involvement in public welfare projects.



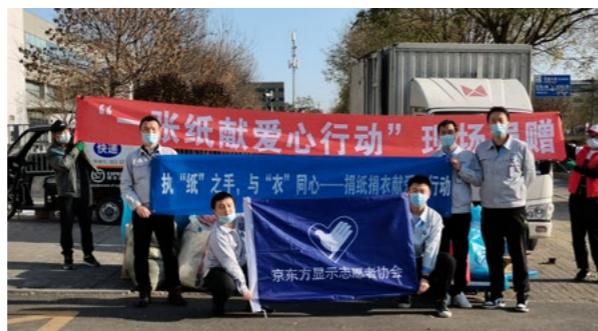
BOE's public welfare activity management system



BOE Chairman and other executives participate in the voluntary tree planting activity



"A Piece of Paper Donate Your Love" project



Volunteer Station



Honors and Awards in 2022

A leader of ecological brand	Two Display Application Innovation Gold Awards at Display Innovation China Expo
Ranked 57th among Fortune China 500 Companies	Display Component of the Year Award (Large Size) - Expert Review Gold Award-BOE 75 8K 288Hz
Science and Technology Award by The Chinese Institute of Electronics	Display of the Year Award (Medium Size) - Expert Review Gold Award - BOE 15.6 FHD Oxide 360Hz
China Top 500 Listed Companies by Credit	Display Application Innovation of the Year Gold Award - 27 FHD 500Hz+
China Top 500 Manufacturing Companies by Credit	PCA (People's Choice Award) - Best Large Booth
China Top 500 Companies by Credit	2022 World's Attractive Employer to Graduates
2021-2022 TOP 10 CE Brands in the Consumer Electronics Industry	Top Employer China 2022
2021-2022 China's Most Respected Company	2022 Extraordinary Employer
Ranked third among 2022 Beijing Top 100 New Entity Enterprises	2022 China ESG Golden Awards - Annual Sustainable Development Award
Ranked among the 50 Smartest Companies of the Year	GoldenBee 2022 Excellent CSR Report "Leading Enterprise"
Consumer Electronics Show Display Innovation Gold Award	2022 Caijing Award "Green Award of Sustainable Development"



Prospects



By pushing the boundaries of science and technology, BOE has transitioned from disrupting the game to taking the lead in the semiconductor display industry. BOE is depicting a new blueprint full of imagination for intelligent IoT. Looking into the future, we will focus efforts on capitalizing on new opportunities and challenges and speed up integrating display technology + IoT applications based on our long-term vision. Together with global partners, we will strive to invigorate the IoT industry and create a more intelligent and promising future, paving the way for high-quality development driven by innovation.

Expert Opinion

It is heartening to see BOE's progress in sustainable development beyond its past accomplishments in this Sustainability Report at its 30th anniversary. In active response to climate change, BOE has demonstrated exceptional diligence in carbon peak and carbon neutrality goals, environmental information disclosure, water resources management, waste management and comprehensive utilization, chemicals management, and GHG emissions. At the same time, BOE integrates resource and environmental considerations into the full lifecycle of products, and accounts and monitors the carbon footprint of its products. Unwaveringly committed to low-carbon and green development, BOE is setting a role model for other companies to follow. The Company deserves recognition for its efforts on promoting integrity and ethical standards and environmental management training for its employees. Its code of conduct, ethical declaration, integrity and dedication system, and inspection and whistle-blowing email address escort honest and standardized operation in all aspects of culture, system and management. Innovation has been the cornerstone of BOE's success over the past 30 years and also underpins its sustainable development in the future. I am pleased and proud to see the innovation data presented in the report. And I hope that BOE can maintain and improve its innovation capabilities, and enhance its original innovation, contributing its share to China's transition into an innovator as soon as possible, and building a better, harmonious, and sustainable future for humanity.

June Qian, Associate Dean of Academics at Schwarzman College
and Director of Research Center for Green Economy and Sustainable
Development, Tsinghua University

BOE has been consistently dedicated to its original aspiration. The 2022 BOE Sustainability Report identifies its 30th anniversary as a corporate milestone and an important node for BOE to adhere to sustainable development. This report is structured in four parts, namely governance, science and technology, environment, and community. It details how BOE has been practicing its mission of "change life with heart", with an approach centered on people, cored by innovation, and backed by technology. BOE has taken a range of initiatives in areas such as corporate governance, partner achievements, green and low-carbon practices, and community charity, showcasing its sustainability philosophy and practices for other companies to draw from. I expect that BOE can join hands with all stakeholders in the field of sustainable development to contribute its strength to various industries in the future.

Yu Zhihong, President and Editor-in-chief of
China Sustainability Tribune

Assurance Statement of Sustainability Report

TUVNORD

TUV NORD (Hangzhou) Co. Ltd. (“TUV NORD”) was commissioned by BOE Technology Group Co., Ltd (“BOE”) to undertake independent third-party assurance of the *BOE 2022 Sustainability Report* (“the report”).

BOE collected, analyzed, complied, and disclosed information contained in the report. The assurance of TUV NORD was conducted in accordance with the agreed scope of work as specified in the engagement agreement with BOE, which is the designated user of this statement.

This statement is based on the *BOE 2022 Sustainability Report*. The responsibility for the integrity and authenticity of the information and data in the report remains with BOE.

Assurance Scope

- Economic, social and environmental indicators disclosed in the sustainability report for the period from 1 January 2022 to 31 December 2022;
- The process of collecting, analyzing, and examining the data and information involved in the report;
- Excludes economic data, which was audited by another third party, eliminating the need for repeated verification this time.

The assurance was conducted from March 15 to 16, 2023.

Assurance Methodology

The assurance process includes the following activities:

- Review the document information provide by BOE;
- Conduct interviews with the individual responsible for collecting the report information;
- Verify the data and information by referring to related websites and media reports through a sampling method;
- Adhere to the requirements of the GRI Standards of Global Sustainability Standards Board (GSSB);
- Comply with the AA1000 Assurance Standard (v3) to compile the statement;
- Refer to the “*Evaluation Index System for Social Responsibility Governance in the Electronic Information Industry*” (T/CESA 16003-2021)
- Follow the TUV NORD CSR report assurance management procedure.

Assurance Conclusion

The *2022 Sustainable Report* compiled by BOE provides an objective reflection of BOE’s CSR implementation and performance in 2022. The data presented in the report is reliable and objective, and TUV NORD had not identified any systematic or material errors during the assurance.

- Balance: The report demonstrates a certain balance by objectively disclosing the incidence rate of major corruption incidents and hazardous substance exceeding standards, etc.;
- Comparability: The report ensures comparability by disclosing economic data such as total assets and operating income from 2020 to 2022;

- Accuracy: Through sampling audit, it is found that the cases and data disclosed in the report are basically objective and accurate;
- Timeliness: The report timely covers the sustainable development performance in 2022. BOE has a commendable track record of regularly publishing the report for thirteen years;
- Reliability: CSR Promotion Department of BOE is responsible for collecting, recording, arranging and analyzing the information and processes used in the preparation of the report. The data sampled during the verification process can provide traceability, which ensures the quality and materiality of the information to a certain extent.

Suggestion for improvement

Through assurance and evaluation, we propose the following improvement suggestions on CSR practice and management:

- Improve the previous year’s report include implementing responsible departments, breaking down specific indicators, and improving the overall quality of the report;
- Benchmark industry and international standards and continuously expanding the number of indicator disclosures;
- For the environmental section, it is recommended to disclose more data on energy consumption and carbon emissions, in order to facilitate stakeholders to further understand the environmental performance of BOE.

Special statement

This statement excludes:

- The activity outside information disclosure;
- The position, idea, faith, object, future developing direction, and promise which stated by BOE.

Statement of Independence and Competence

TUV NORD Group is the world’s leader in inspection, testing and verification, operating in more than 70 countries throughout the world and providing services which includes management systems and product certification; quality, environmental, social and ethical auditing and training; environmental, social responsibility and sustainability report assurance.

As one of the global branches of TUV NORD Group, TUV NORD (Hangzhou) Co. Ltd. affirms its’ independence from BOE and confirms that there is no conflicts of interest with the organization or any of its subsidiaries and stakeholders when performing the assurance of the report. All information in this report was provided by BOE, TUV NORD did not participate in the report compilation.

TUV NORD (Hangzhou) Co. Ltd.







The Authorized person: Mr. Song Haining
Date: 24.03.2023



The team leader of assurance: Ms. Huang Li
Date: 24.03.2023

Note: In case of any conflict between the English and the Chinese versions of this statement, the Chinese version shall prevail.

Indicator

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